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Infrastructure, buildings, environment, communications

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ENVIRONMENTAL

ATTN: Information Technology Unit
California Regional Water Quality Control Board
Los Angeles Region (RWQCB)
320 West 4th Street, Suite 200
Los Angeles, California 90013

Subject:
First Quarter 2005 Discharge Monitoring Report
Waste Discharge Requirements Order Number R4-2002-0030 (Series 007)
Compliance File Number CI-95-036, SLIC 0410
Project Site: Former Boeing C-6 Facility (Building 2 Area), Los Angeles, California

Date:
April 22, 2005

Contact:
Barry Molnaa

Phone:
3023

Email:
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Project Number:
CA000594.0006.00007

Dear Information Technology Unit:

On behalf of Boeing Realty Corporation (BRC), ARCADIS is submitting this quarterly monitoring report per the Waste Discharge Requirements (WDR) Order Number R4-2002-0030 (Series 007). The purpose of this report, and future WDR reports, is to provide the Los Angeles Regional Water Quality Control Board (RWQCB) with a summary of bioremediation amendment injections and groundwater monitoring activities performed at the above-referenced project site. The site is located at 19503 Normandie Avenue, Los Angeles, California. Figures 1 and 2 illustrate the site location and the site layout, respectively.

This monitoring report summarizes groundwater amendment and monitoring activities performed during the first quarter of 2005. Activities performed to test the amendment system are summarized in Section 1.0. Groundwater monitoring activities performed to evaluate the initial distribution of amendment solution are summarized in Section 2.0. A certification statement is provided in Section 3.0.

1.0 Amendment Activities

Amendment activities (carbohydrate injection or water injection testing activities) were not conducted during the first quarter of 2005.

2.0 Monitoring Activities

During the first quarter of 2005, Weeks 12, 16, and 21 of post-injection groundwater monitoring were conducted per the WDR monitoring schedule (sample Week 2, Week 6, Week 12, Week 16, Week 21, and Week 36 after the first injection).

Supplemental groundwater monitoring was also performed after Weeks 12 and 16 of post-injection monitoring. The supplemental groundwater monitoring events were associated with the Alternate Donor Amendment Test conducted on December 15 and 16, 2004.

Week 12 post-injection groundwater monitoring was conducted between January 3 and 5, 2005. During Week 12 of post-injection monitoring, two amendment points (IRZB0081 and IRZB0095) and 14 monitoring wells (IRZMW001A/B, IRZMW002A/B, IRZMW003A/B, IRZMW004, IRZMW005, IRZCMW001, IRZCMW002, IRZCMW003, CMW001, CMW002, and CMW026) were gauged and sampled. The monitoring well locations are identified on Figure 2. The groundwater samples from Week 12 post-injection monitoring were analyzed for volatile organic compounds (VOCs), total organic carbon (TOC), bromide, dissolved manganese, nitrate, sulfate, and permanent gases (dissolved oxygen [DO], carbon dioxide, nitrogen, methane, ethane, and ethene). Field parameters of purged groundwater were also collected (ferrous iron, hydrogen sulfide, pH, DO, oxidation reduction potential [ORP], specific conductance, and temperature).

Week 16 post-injection groundwater monitoring was conducted on January 27 and 28, 2005. During Week 16 of post-injection monitoring, two amendment points (IRZB0081 and IRZB0095) and nine monitoring wells (IRZMW001A/B, IRZMW002A/B, IRZMW003A/B, IRZMW005, IRZCMW003, and CMW026) were gauged and sampled. The monitoring well locations are identified on Figure 2. The groundwater samples from Week 16 post-injection monitoring were analyzed for the same parameters as in the Week 12 post-injection monitoring event discussed above.

Week 21 post-injection groundwater monitoring was conducted between March 18 and 20, 2005. During Week 21 of post-injection monitoring, two amendment points (IRZB0081 and IRZB0095) and 14 monitoring wells (IRZMW001A/B, IRZMW002A/B, IRZMW003A/B, IRZMW004, IRZMW005, IRZCMW001, IRZCMW002, IRZCMW003, CMW001, CMW002, and CMW026) were gauged and sampled. The monitoring well locations are identified on Figure 2. The groundwater samples from Week 21 post-injection monitoring were analyzed for total iron, total manganese, and nitrite and for the same parameters as the Week 12 and Week 16 post-injection monitoring events discussed above.

Following Weeks 12 and 16 of post-injection groundwater monitoring, supplemental groundwater monitoring was performed to evaluate the progress of the Alternate Donor Injection Test. The supplemental groundwater monitoring was performed on January 14, and February 11, 2005 at wells IRZB0081, IRZB0095, IRZMW004, and

IRZMW005. The monitoring well locations are identified on Figure 2. Groundwater samples from these four wells were analyzed for TOC and VOCs. Field parameters of purged groundwater were also collected (pH, DO, ORP, specific conductance, and temperature).

Field parameter data, laboratory analytical methods, and analytical results from the groundwater monitoring events are summarized in Tables 1 through 4. Laboratory analytical data with associated chain-of-custody documentation are provided in Appendix A. Sample collection logs with field parameters and monitoring well sampling data are maintained in the project files and are not provided with this report.

Prior to collecting the groundwater samples, depth to groundwater was measured in each monitoring well by using a water level meter accurate to 0.01 feet. Figure 3 shows the groundwater elevation contours for Zones B and C in March 2005. Groundwater samples were collected using low flow sampling techniques, so that the purge rate was generally less than 600 milliliters per minute (mL/min) and drawdown while purging was less than 1 foot. Since recharge of monitoring well IRZMW0002A does not support the use of low flow sampling techniques, the monitoring well was purged dry prior to sampling.

The sampling methodology also involved use of a flow-through cell that contains field instrumentation used to measure groundwater stabilization parameters (i.e., temperature, pH, specific conductance, ORP, and DO). For each monitoring well, the flow-through cell was connected to a submersible pump with dedicated polyethylene tubing. Once the field parameters stabilized, groundwater samples were collected in laboratory-prepared containers. Field parameters and other relevant sampling data were documented on sample collection logs. The groundwater samples were transported in a chilled ice chest with proper chain-of-custody documentation to an analytical laboratory certified by the State of California (Severn Trent Laboratories, Inc.).

3.0 Certification Statement

I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate and complete. I am aware that

there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or comments regarding this discharge monitoring report, please contact Barry Molnaa or David Poley at (714) 278-0992.

Sincerely,

ARCADIS G&M, Inc.

David G. Poley
Project Scientist

Trent Henderson, P.E., DEE
Site Evaluation & Remediation
Department Manager

Barry Molnaa
Project Manager

Copies:
Stephanie Sibbett-Brutocao, Boeing Realty Corporation
Project File

Enclosures:
Figure 1 - Site Location
Figure 2 - Amendment Point and Monitoring Well Locations
Figure 3 - Groundwater Contour Map for Zones B and C - March 2005
Table 1 - Groundwater Parameter and Total Organic Carbon Results
Table 2 - Inorganic Analytical Results
Table 3 - Volatile Organic Compound Analytical Results
Table 4 - Permanent Gas Analytical Results
Appendix A - Laboratory Reports and Chain-of Custody Documents

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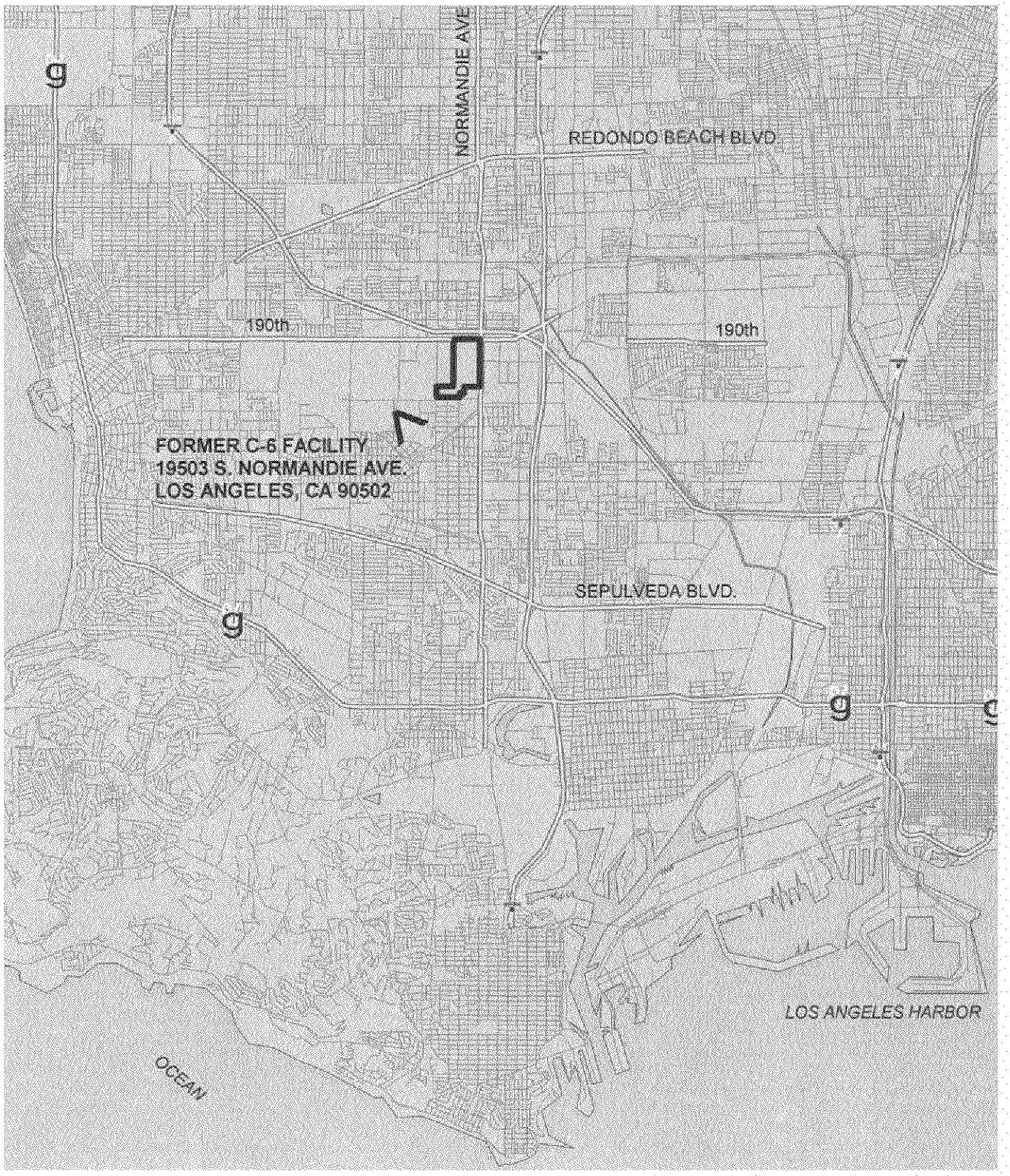
Figures



Base map download from 'Tiger File' data website hosted by ESRI.

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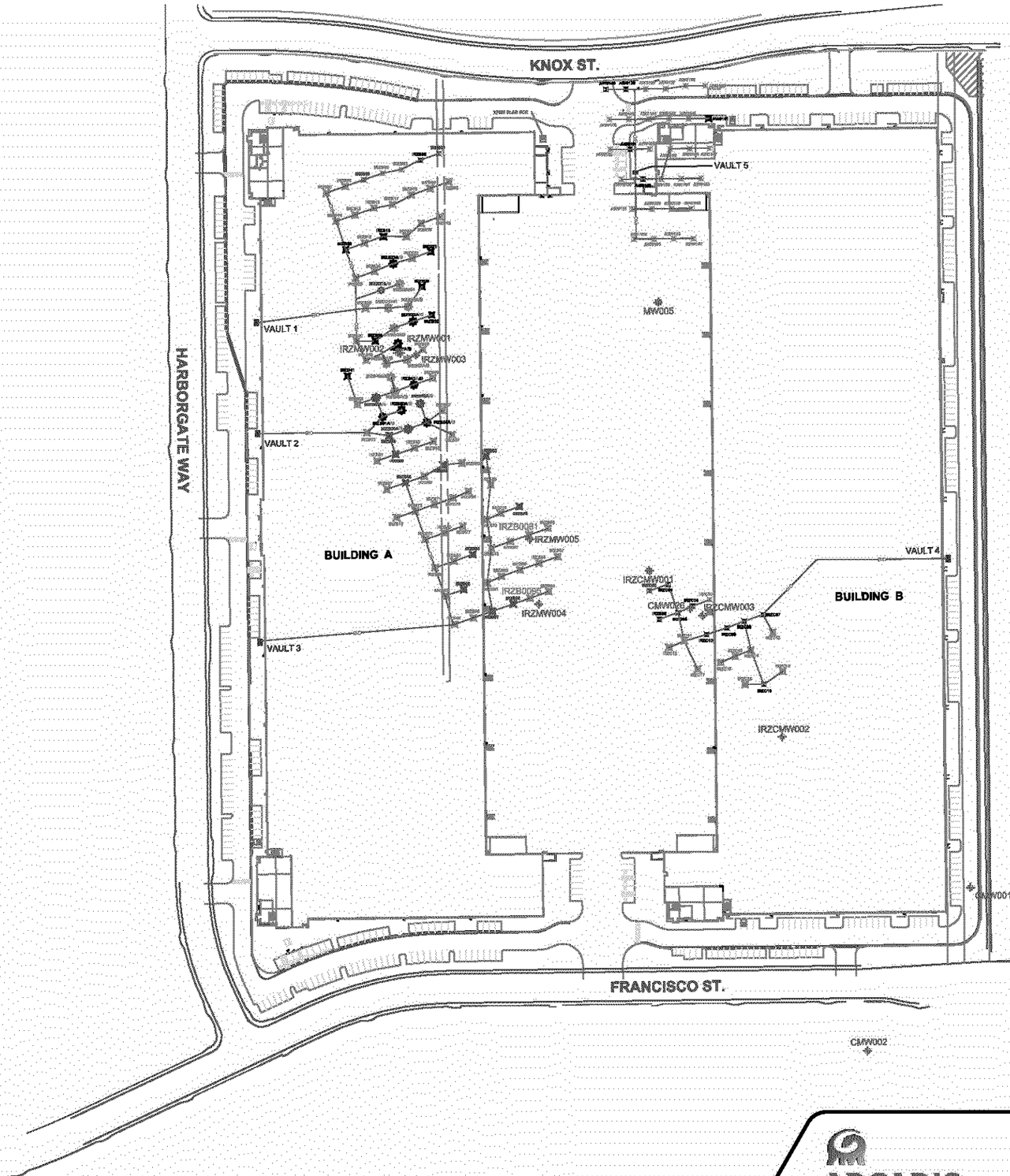
SITE LOCATION

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE

1

DATE: 11/5/03 | 13:36 | PRJ#: CA 594.03.01 | DWG: G:\drawings\oproject\boeing\2003\sl-1 | FILE: | CHK: LOTHMAN | PM: NGUYEN | ART: QUINONES



LEGEND

IRZCMW005	BIOGROUNDWATER MONITORING WELL
IRZ030A/B	DUAL BIOINJECTION POINT
IRZ031	SINGLE BIOINJECTION POINT
	AMENDMENT POINTS TAKEN OUT OF SERVICE
	AMENDMENT POINTS REQUIRING MODERATE INJECTION PRESSURE
	AMENDMENT POINTS THAT SIPHON DURING INJECTION
VAULT 1	FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
BIO	BIOREMEDIATION SYSTEM PIPING

N

0 90 180
SCALE IN FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

BASE MAP PROVIDED BY HILL PINKERT ARCHITECTS, INC. IN FEBRUARY 2003

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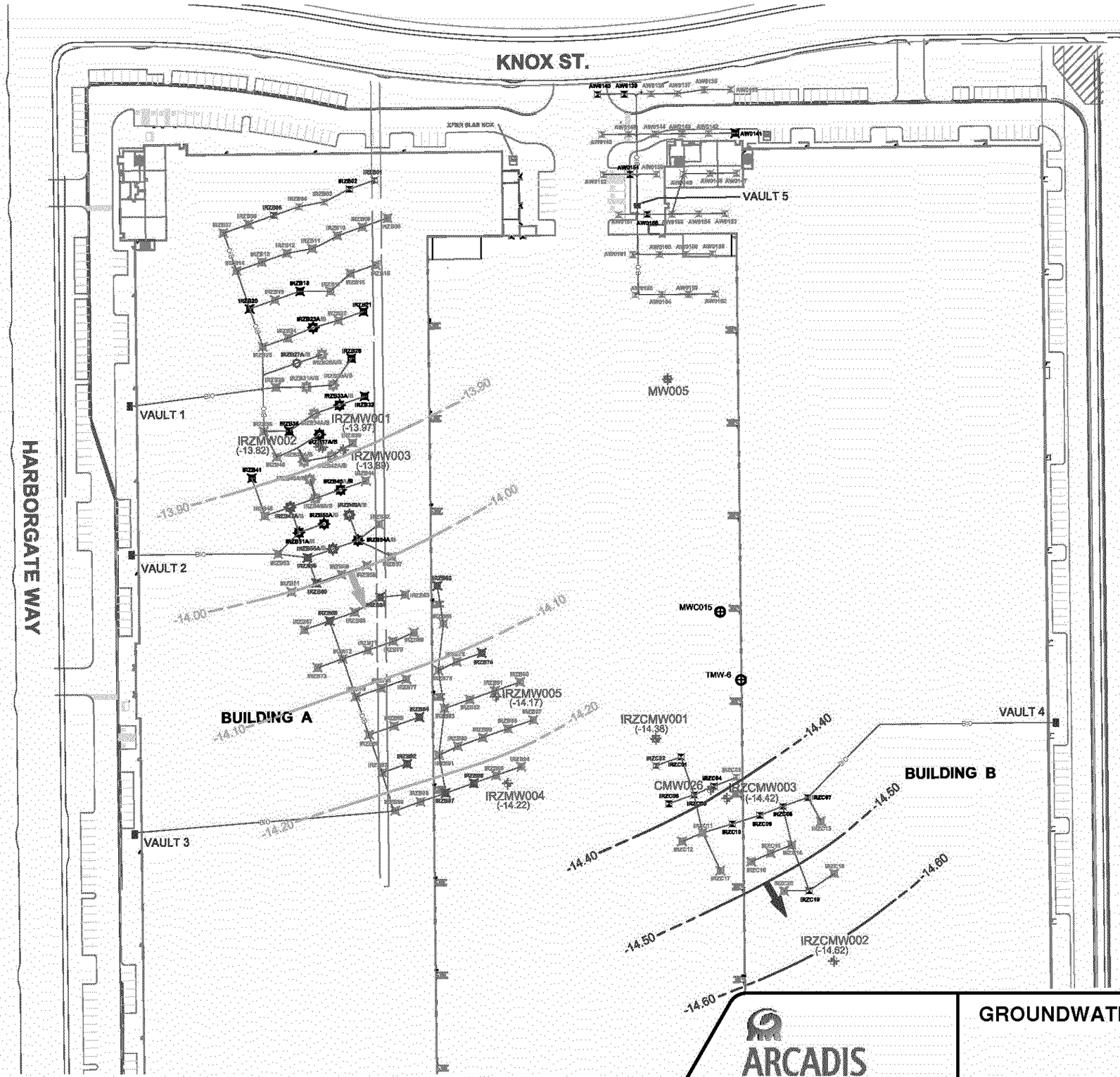
AMENDMENT POINT AND MONITORING WELL LOCATIONS

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE
2

DATE: 10/25/04 | 11:30 | PRJ#: CA 594.03.05 | DWG: G:\dwgs\oprjct\boeing\2003\Site Map-survey-coords-3-rev2 | FILE: | CHK: LOTHMAN | PM: NGUYEN | ART: QUINONES



LEGEND

IRZCMW005	BIOGROUNDWATER MONITORING WELL
(-14.22)	GROUNDWATER ELEVATION IN FEET BELOW MEAN SEA LEVEL
	GROUNDWATER MONITORING WELL
IRZ030A/B	DUAL BIOINJECTION POINT
IRZ031	SINGLE BIOINJECTION POINT
	AMENDMENT POINTS TAKEN OUT OF SERVICE
	AMENDMENT POINTS REQUIRING MODERATE INJECTION PRESSURE
	AMENDMENT POINTS THAT SIPHON DURING INJECTION
VAULT 1	FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
BIO	BIOREMEDIATION SYSTEM PIPING
	ZONE B CONTOUR OF EQUAL GROUNDWATER SURFACE ELEVATION IN FEET BELOW MEAN SEA LEVEL
	ZONE C CONTOUR OF EQUAL GROUNDWATER SURFACE ELEVATION IN FEET BELOW MEAN SEA LEVEL

N

0 60 120
SCALE IN FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

BASE MAP PROVIDED BY HILL PINKERT ARCHITECTS, INC. IN FEBRUARY 2003

ARCADIS

GROUNDWATER CONTOUR MAP FOR ZONES B AND C
OCTOBER 2004

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE
3

DATE: 1/24/05 | 11:30 | PRJ#: CA 594.06.07 | DWG: G:\dwgs\oprjct\boeing\2005\GW1004-ZonesB-C | FILE: | CHK: POLEY | PM: NGUYEN | ART: QUINONES

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Tables

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Table 1. Groundwater Parameter and Total Organic Carbon Results
Former Building 2 Area, Former Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Top of Casing (feet msl)	Depth to Water (feet)	Groundwater Elevation (feet msl)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Temperature (°C)	Specific Conductance (umhos/cm)	Hydrogen Sulfide (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	50.28	64.53	-14.25	6.7	5.1	144.4	21.6	1,563	Too Turbid	Too Turbid	5.8
			Week 2	10/22/2004		64.51	-14.23	7.3	3.7	-42.8	22.6	922	0	<1.0	2.8
			Alt. Amend. Monitoring	12/14/2004		64.48	-14.20	5.2	1.8	-53.0	21.9	8,147	NM	NM	4,560
			Week 12	1/5/2005		64.61	-14.33	4.9	1.3	-21.9	21.7	7,384	Too Turbid	Too Turbid	6,140
			Alt. Amend. Monitoring	1/14/2005		64.39	-14.11	4.9	27.9	6.5	22.4	4,755	NM	NM	4,750
			Week 16	1/28/2005		64.25	-13.97	5.1	0.8	-43.1	21.7	4,803	<2.5	2.2	3,750
			Alt. Amend. Monitoring	2/11/2005		63.94	-13.66	5.7	1.1	-92.9	21.7	4,088	NM	NM	2,140
			Week 21	3/20/2005		64.29	-14.01	5.5	2.1	-68.2	22.1	5,309	0.7	Too Turbid	3,260
IRZB0095		A	Baseline	10/7/2003	50.08	64.59	-14.51	7.0	5.6	83.7	23.1	1,435	0	1.3	3.0
			Week 2	10/22/2004		64.50	-14.42	7.4	5.1	-47.1	22.2	661	0	<1.0	2.4
			Week 6	11/19/2004		64.37	-14.29	7.4	6.7	67.2	22.1	1,142	Too Turbid	Too Turbid	4.4
			Alt. Amend. Monitoring	12/14/2004		64.49	-14.41	7.4	4.9	-5.4	22.2	1,296	NM	NM	3.3
			Week 12	1/5/2005		65.28	-15.20	6.8	2.6	-90.5	21.1	5,873	Too Turbid	Too Turbid	1,890
			Alt. Amend. Monitoring	1/14/2005		NM	--	6.7	20.6	-107.7	21.9	4,858	NM	NM	2,400
			Week 16	1/28/2005		64.41	-14.33	6.7	2.1	-98.1	20.7	4,592	<2.0	1	2,060
			Alt. Amend. Monitoring	2/11/2005		64.04	-13.96	6.8	2.4	-103.8	21.0	4,244	NM	NM	1,580
			Week 21	3/20/2005		64.29	-14.21	6.9	3.5	-116.4	21.6	2,555	0	Too Turbid	811
IRZMW001A		A	Baseline	10/30/2003	54.18	68.05	-13.87	6.7	4.8	245.9	21.9	2,354	0	0	5.0
			Injection Evaluation	5/21/2004		68.61	-14.43	7.1	2.7	47.4	25.3	2,595	NM	NM	5.5
			Injection Evaluation	10/12/2004		67.69	-13.51	6.0	1.2	-31.6	21.0	2,538	NM	NM	3.5
			Week 2	10/22/2004		68.00	-13.82	6.9	0.3	-10.1	25.6	2,339	0	<1.0	4.3
			Week 6	11/18/2004		68.08	-13.90	6.9	1.5	33.1	27.1	2,048	0	<1.0	5.3
			Week 12	1/4/2005		67.84	-13.66	6.9	0.4	21.9	24.2	2,345	0	<1.0	6.1
			Week 16	1/27/2005		67.85	-13.67	6.9	0.3	64.8	22.8	1,893	0	0	4.4
			Week 21	3/19/2005		67.65	-13.47	6.9	0.3	-77.9	26.1	1,994	0	1.0	3.6
IRZMW001B		A	Baseline	10/30/2003	54.10	67.98	-13.88	6.8	6.2	159.6	21.8	1,254	0	1	3.8
			Injection Evaluation	5/21/2004		68.11	-14.01	7.3	6.8	78.3	23.7	1,278	NM	NM	3.6
			Injection Evaluation	10/12/2004		67.70	-13.60	7.3	2.2	5.6	21.4	1,042	NM	NM	5.8
			Week 2	10/22/2004		68.07	-13.97	7.3	4.0	53.7	22.7	1,168	0	0.1	2.0
			Week 6	11/18/2004		68.00	-13.90	7.2	6.6	125.0	24.2	953	0.1	0.3	5.2
			Week 12	1/4/2005		67.72	-13.62	7.3	6.1	40.6	21.3	1,111	0	0.4	6.3
			Week 16	1/27/2005		67.77	-13.67	7.2	4.7	94.9	22.6	919	0	0	3.0
			Week 21	3/19/2005		67.59	-13.49	7.3	5.4	11.1	24.4	982	0.1	0.5	4.4
IRZMW002A		A	Baseline	10/30/2003	54.07	67.98	-13.91	6.8	3.1	-140.7	22.1	1,852	5	2	21.8
			Injection Evaluation	5/21/2004		68.39	-14.32	7.2	0.9	-52.5	22.1	2,038	NM	NM	13.3
			Injection Evaluation	10/12/2004		67.85	-13.78	6.1	1.1	-54.1	21.5	2,760	NM	NM	11.1
			Week 2	10/21/2004		68.05	-13.98	6.4	0.2	-107.4	23.5	2,860	0	<1.0	10.1
			Week 6	11/18/2004		68.21	-14.14	6.5	2.2	-102.7	25.8	2,220	0	Too Turbid	9.7
			Week 12	1/4/2005		67.74	-13.67	6.8	0.9	-26.6	21.3	2,389	0	Too Turbid	7.2
			Week 16	1/27/2005		68.02	-13.95	6.8	0.7	19.3	22.2	1,882	0	0.5	6.0
			Week 21	3/19/2005		67.22	-13.15	6.9	0.8	-24.1	22.0	1,865	0	2	11.2
IRZMW002B		A	Baseline	10/30/2003	54.17	68.07	-13.90	6.8	4.1	110.3	21.7	1,125	0	Too Turbid	4.1
			Injection Evaluation	5/21/2004		68.97	-14.80	7.2	4.2	45.5	24.0	1,204	NM	NM	5.2
			Injection Evaluation	10/12/2004		67.61	-13.44	7.1	1.3	8.6	21.5	1,254	NM	NM	6.2
			Week 2	10/21/2004		67.99	-13.82	7.3	2.4	-34.3	25.5	1,325	0	<1.0	2.8
			Week 6	11/18/2004		68.18	-14.01	7.1	4.6	48.3	24.1	1,067	0	<1.0	4.6
			Week 12	1/4/2005		67.74	-13.57	7.2	4.0	32.7	21.5	1,234	0	<1.0	3.1
			Week 16	1/27/2005		67.91	-13.74	7.1	3.4	63.4	22.3	1,047	0	0	3.3
			Week 21	3/19/2005		67.21	-13.04	6.9	0.2	-36.6	24.0	1,253	0	2	5.0
IRZMW005		A	Baseline	10/9/2003	50.19	64.44	-14.25	7.1	5.3	40.8	21.6	1,591	0	0	3.9
			Injection Evaluation	5/21/2004		64.52	-14.33	7.3	5.8	89.6	21.7	1,546	NM	NM	5.6
			Injection Evaluation	10/12/2004		64.14	-13.95	6.0	1.3	-20.0	24.9	1,972	NM	NM	5.2
			Week 2	10/22/2004		64.36	-14.17	6.8	0.4	-105.7	24.1	1,954	0	0.9	3.1
			Week 6	11/19/2004		64.31	-14.12	6.2	0.8	-19.7	24.8	1,747	0	<1.0	9.7
			Alt. Amend. Monitoring	12/14/2004		64.29	-14.10	6.6	0.6	-42.7	23.6	1,818	NM	NM	5.5
			Week 12	1/5/2005		64.42	-14.23	6.3	0.2	-158.1	23.5	2,281	2	<1.0	57
			Alt. Amend. Monitoring	1/14/2005		64.15	-13.96	6.4	1.0	-109.8	24.9	1,885	NM	NM	157
			Week 16	1/28/2005		64.08	-13.89	6.4	0.1	-154.3	23.1	1,972	<2.5	3.2	267
			Alt. Amend. Monitoring	2/11/2005		63.85	-13.66	6.2	0.6	-172.2	22.4	2,214	NM	NM	499
			Week 21	3/20/2005		64.12	-13.93	6.4	0.1	-120.6	24.0	2,204	0.3	7.0	353

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Table 1. Groundwater Parameter and Total Organic Carbon Results
Former Building 2 Area, Former Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Top of Casing (feet msl)	Depth to Water (feet)	Groundwater Elevation (feet msl)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Temperature (°C)	Specific Conductance (umhos/cm)	Hydrogen Sulfide (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
IRZMW003A	Zone B	B	Baseline	10/31/2003	54.14	68.21	-14.07	6.8	4.0	210.3	25.7	1,761	Too Turbid	Too Turbid	2.6
			Injection Evaluation	10/12/2004		67.79	-13.65	6.1	1.1	-8.9	21.6	3,107	NM	NM	5.7
			Week 12	1/4/2005		67.82	-13.68	6.6	0.5	-19.2	24.7	2,196	0	<1.0	9.7
			Week 16	1/27/2005		67.85	-13.71	6.6	0.3	123.2	24.7	1,747	0	0	5.5
			Week 21	3/19/2005		67.63	-13.49	6.8	0.5	-45.4	24.7	1,512	Too Turbid	0.3	8.4
IRZMW003B		B	Baseline	10/31/2003	54.20	68.24	-14.04	6.8	5.0	280.4	23.3	1,154	Too Turbid	Too Turbid	3.8
			Injection Evaluation	10/12/2004		67.82	-13.62	7.2	3.9	-10.6	22.7	1,276	NM	NM	3.4
			Week 12	1/4/2005		67.84	-13.64	7.2	4.2	54.2	22.0	1,223	0	0.7	3.4
			Week 16	1/27/2005		67.89	-13.69	7.2	4.6	111.2	22.7	974	0	0	3.8
			Week 21	3/19/2005		67.67	-13.47	7.3	3.7	16.9	23.2	961	0	0.6	3.5
IRZMW004		C	Baseline	10/7/2003	50.48	64.84	-14.36	7.0	4.8	152.9	22.5	1,449	0	0	3.1
			Injection Evaluation	10/12/2004		64.45	-13.97	7.2	2.5	-40.9	24.1	1,337	NM	NM	2.3
			Alt. Amend. Monitoring	12/14/2004		64.63	-14.15	7.2	4.2	-28.6	23.7	1,473	NM	NM	3.6
			Week 12	1/5/2005		64.77	-14.29	7.2	3.5	16.6	23.6	1,453	0.1	1.0	3.8
			Alt. Amend. Monitoring	1/14/2005		64.56	-14.08	7.1	46.0	109.7	23.2	1,213	NM	NM	4.0
			Alt. Amend. Monitoring	2/11/2005		64.16	-13.68	7.3	2.6	178.0	21.7	1,102	NM	NM	7.4
			Week 21	3/20/2005		64.45	-13.97	7.1	1.2	-130.7	23.0	1,149	0.3	3.0	31.7
CMW0026	Zone C	A	Baseline	10/7/2003	48.94	63.38	-14.44	7.2	4.5	34.0	22.3	965	0	0	2.0
			Week2	10/22/2004		63.33	-14.39	7.2	1.1	-86.7	22.7	123	0	1.0	1.6
			Week 6	11/19/2004		63.28	-14.34	7.1	0.7	-202.7	24.0	384	0.2	0.7	11
			Week 12	1/5/2005		63.44	-14.50	7.0	1.6	-13.8	22.3	72	0	1.0	2.7
			Week 16	1/28/2005		63.31	-14.37	6.7	0.1	-108.7	22.6	459	0.8	3.2	22
			Week 21	3/19/2005		62.92	-13.98	7.3	3.6	12.8	22.2	64	0	1.4	11.0
IRZCMW003		B	Baseline	10/7/2003	49.12	63.58	-14.46	7.2	2.7	133.5	22.8	951	0	0	2.0
			Injection Evaluation	10/12/2004		62.98	-13.86	7.3	1.1	-7.5	22.3	969	NM	NM	2.4
			Week 12	1/5/2005		63.62	-14.50	7.3	0.5	-45.8	21.5	907	0	0.2	2.7
			Week 16	1/28/2005		63.41	-14.29	7.3	0.3	105.3	22.6	729	0	0	2.3
			Week 21	3/19/2005		63.03	-13.91	7.4	0.2	-73.8	22.0	730	NM	0.4	2.8
IRZCMW002		C	Baseline	10/8/2003	52.98	67.78	-14.80	7.0	2.4	188.5	21.4	888	0	0	3.2
			Injection Evaluation	10/12/2004		67.25	-14.27	7.4	1.1	-51.0	21.4	974	NM	NM	2.2
			Week 12	1/5/2005		68.02	-15.04	7.4	0.9	146.5	21.3	912	0	0.2	2.2
			Week 21	3/19/2005		67.25	-14.27	7.7	0.2	-169.5	22.5	709	0.4	0.3	11.7
CMW001		C	Baseline	10/9/2003	51.81	66.81	-15.00	6.8	2.6	-120.0	23.3	948	0.5	0	23
			Week 12	1/5/2005		66.83	-15.02	7.3	0.5	-95.3	23.0	1,017	0	0.3	28
			Week 21	3/18/2005		66.63	-14.82	7.3	0.2	-62.2	23.5	806	0	0	26
CMW002		C	Baseline	10/8/2003	Not Surveyed	65.29	--	6.9	2.2	51.4	23.0	788	0	0	8.0
			Week 12	1/3/2005		64.80	--	5.2	0.5	-6.6	22.5	875	0	0.2	14
			Week 21	3/18/2005		64.51	--	7.3	0.2	-56.7	22.6	699	0	0	13
IRZCMW001		D	Baseline	10/8/2003	49.14	63.65	-14.51	7.1	4.2	183.0	21.7	1,219	0	0	3.3
			Injection Evaluation	10/12/2004		NM	NM	7.2	2.5	-12.0	22.3	1,313	NM	NM	2.5
			Week 6	11/18/2004		63.52	-14.38	7.2	1.5	46.9	24.2	1,117	0	0.1	2.3
			Week 12	1/4/2005		63.41	-14.27	7.2	0.5	9.0	21.3	1,248	0	0.2	2.1
			Week 21	3/19/2005		62.97	-13.83	7.3	0.1	-50.6	23.4	1,028	0	0.5	3.7
EPA Analytical Method						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9060

Notes:
Wells micropurged then sampled, except grab bailer samples collected 10/12/04.
Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area
feet msl - feet above mean sea level

mg/L - milligrams per liter
mV - millivolts
°C - degrees Celsius
N/A - Not applicable
NM - Not measured

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Table 2. Inorganic Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Bromide (mg/L)	Chloride (mg/l)	Total Iron (mg/L)	Dissolved Manganese (mg/L)	Total Manganese (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	0.94	348	25	0.05	1.4	8.5	<1	43.8
			Week 12	1/5/2005	746	NS	NS	5.1	NS	<2	NS	104
			Week 16	1/28/2005	<2.5	NS	NS	7.0	NS	<2	NS	38.1
			Week 21	3/20/2005	<25	283	410	9.5	9.6	<1	<0.5	13.7
IRZB0095		A	Baseline	10/7/2003	0.85	320	3.30	0.052	0.78	7.2	<1	38.6
			Week 6	11/19/2004	0.64	NS	NS	0.016	NS	6.5 J	NS	49.7
			Week 12	1/5/2005	18	NS	NS	5.7	NS	<1	NS	45.5
			Week 16	1/28/2005	<5	NS	NS	7.1	NS	<0.5	NS	20.6
			Week 21	3/20/2005	<5	90	70	2.3	3.4	0.30	<1	22.0
IRZMW001A		A	Baseline	10/30/2003	3.6	615	6.8	0.019	0.24 J	14	<1	88.6
			Week 6	11/18/2004	1.9	NS	NS	0.064	NS	8.8 J	NS	60.2
			Week 12	1/4/2005	1.9	NS	NS	0.019	NS	9.4	NS	62.9
			Week 16	1/27/2005	1.9	NS	NS	0.048	NS	9.2	NS	62.3
			Week 21	3/19/2005	2.1	490	0.35	0.15	0.17	3.1	0.3 JQC	59.3
IRZMW001B		A	Baseline	10/30/2003	0.73	218	2.9	0.020	0.09 J	5.8	<0.5	98.0
			Week 6	11/18/2004	0.41 J	NS	NS	0.0041 J	NS	6.8 J	NS	87.9
			Week 12	1/4/2005	0.43 J	NS	NS	0.0014 J	NS	7.2	NS	93.9
			Week 16	1/27/2005	0.47 J	NS	NS	0.037	NS	7.3	NS	93.2
			Week 21	3/19/2005	0.45 J	158	0.078 J	0.0023 J	0.02	5.5	<0.5	80.8
IRZMW002A		A	Baseline	10/31/2003	2.3	444	13	3.6	3.7 J	0.13	<1	77.8
			Week 6	11/18/2004	1.7	NS	NS	2.1	NS	4.3 J	NS	64.6
			Week 12	1/4/2005	1.8	NS	NS	1.7	NS	3.7	NS	68.1
			Week 16	1/27/2005	1.7	NS	NS	1.5	NS	5.0	NS	64.9
			Week 21	3/19/2005	1.8	509	3.6	1.5	1.9	3.0	<0.5	66.2
IRZMW002B		A	Baseline	10/30/2003	0.94	220	12	0.150	0.31 J	6.9	0.21 QC	80.9
			Week 6	11/18/2004	0.66	NS	NS	0.035	NS	8.6 J	NS	98.1
			Week 12	1/4/2005	0.64	NS	NS	0.018	NS	9.5	NS	94.8
			Week 16	1/27/2005	0.78	NS	NS	0.022	NS	8.1	NS	67.6
			Week 21	3/19/2005	0.73	229	1.3	0.044	0.07	2.7	<0.5	47.8
IRZMW005		A	Baseline	10/9/2003	0.97	358	2.5	0.02	0.10	8.6	<1	41.6
			Week 6	11/19/2004	0.98	NS	NS	0.05	NS	4.7 J	NS	36.0
			Week 12	1/5/2005	0.89	NS	NS	2.6	NS	<0.1	NS	23.4
			Week 16	1/28/2005	<25	NS	NS	3.5	NS	<0.5	NS	15.7
			Week 21	3/20/2005	<5	438	41.6	5.2	5.4	0.083 J	<1	5.3
IRZMW003A		B	Baseline	10/31/2003	1.1	465	5.6	0.0069 J	0.11 J	9.6	<1	48.3
			Week 12	1/4/2005	1.4	NS	NS	0.10	NS	6.1	NS	41.3
			Week 16	1/27/2005	1.3	NS	NS	0.12	NS	6.2	NS	41.7
			Week 21	3/19/2005	0.3 J	147	4.6	0.21	0.33	1.5	<0.5	14.0
IRZMW003B		B	Baseline	10/31/2003	0.69	240	8.1	0.051	0.23 J	6.3	<0.5	77.9
			Week 12	1/4/2005	0.59	NS	NS	0.021	NS	6.0	NS	80.8
			Week 16	1/27/2005	0.58	NS	NS	0.019	NS	5.9	NS	79.8
			Week 21	3/19/2005	0.56	185	0.75	0.0089 J	0.02	5.9	<0.5	65.9
IRZMW004		C	Baseline	10/7/2003	0.89	338	4.8	0.013 J	0.30	8.1	<1	41.2
			Week 12	1/5/2005	0.80	NS	NS	0.0028 J	NS	7.3	NS	42.1
			Week 21	3/20/2005	0.68	244	2.5	0.50	0.51 B	5.0	<0.5	42.7
CMW026	Zone C	A	Baseline	10/7/2003	0.55	215	1.7	0.0054 J	0.09	2.8	<1	34.2
			Week 6	11/19/2004	0.18 J	NS	NS	0.380	NS	0.066 J	NS	4.0
			Week 12	1/5/2005	<0.5	NS	NS	0.035	NS	0.20	NS	5.0
			Week 16	1/28/2005	0.14 J	NS	NS	0.57	NS	<0.1	NS	2.3
			Week 21	3/19/2005	<0.5	3.8	1.8	0.06	0.06	0.44	0.08 J	5.5
IRZCMW003		B	Baseline	10/7/2003	0.51	191	1.1	0.015	0.16	1.6	<1	49.8
			Week 12	1/5/2005	0.38 J	NS	NS	0.016	NS	2.1	NS	52.6
			Week 16	1/28/2005	0.38 J	NS	NS	0.024	NS	2.1	NS	52.3
			Week 21	3/19/2005	0.36 J	138	0.77	0.014 J	0.10	1.6	<0.5	50.7
IRZCMW002		C	Baseline	10/8/2003	0.37 J	150	0.23	0.10	0.04	2.5	<0.5	62.5
			Week 12	1/5/2005	0.37 J	NS	NS	0.0012 J	NS	3.2	NS	61.6
			Week 21	3/19/2005	0.38 J	144	0.20	0.67	0.75	<0.1	<0.5	56.9
CMW001		C	Baseline	10/9/2003	0.32 J	127	2.8	0.12	0.16	<0.1	<1	115
			Week 12	1/5/2005	0.23 J	NS	NS	0.34	NS	<0.1	NS	156
			Week 21	3/18/2005	0.24 J	112	0.15	0.36	0.39	<0.1	<0.5	143
CMW002		C	Baseline	10/8/2003	0.24 J	110	0.63	0.21	0.13	<0.1	<0.5	84.9
			Week 12	1/3/2005	0.23 J	NS	NS	0.15 B	NS	<0.1	NS	89.0
			Week 21	3/18/2005	0.25 J	110	0.29	0.13	0.16	<0.1	<0.5	85.7
IRZCMW001		D	Baseline	10/8/2003	0.73	275	1.9	0.0055 J	0.04	2.7	<0.5	37.7
			Week 6	11/18/2004	0.67	NS	NS	0.0022 J	NS	2.2 J	NS	37.2
			Week 12	1/4/2005	0.69	NS	NS	0.0093 J	NS	2.1	NS	38.0
			Week 21	3/19/2005	0.68	273	0.093 J	0.02	0.02	2.0	<1	35.9
EPA Analytical Method					300.0A	300.0A	6010B	6010A	6010B	300.0A	300.0A	300.0A

Notes:
Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area
J - The analyte results were positively identified, and numerical values are an approximate concentration of the analyte in the sample.
QC - A quality control parameter associated with the analyte is not within laboratory or method required quality control limits.
<1.0 - Not detected above indicated reporting limit
NS - Not Sampled

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Table 3. Volatile Organic Compound Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	PCE (ug/L)	TCE (ug/L)	cis-1,2-DCE (ug/L)	trans-1,2-DCE (ug/L)	Vinyl Chloride (ug/L)	1,1,2-TCA (ug/L)	1,1-DCE (ug/L)	1,1-DCA (ug/L)	1,2-DCA (ug/L)	Acetone (ug/L)	Chlorobenzene (ug/L)	Chloroform (ug/L)	Methyl Ethyl Ketone (ug/L)	Methylene Chloride (ug/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	<170	6,500	<170	<170	<170	<170	63 J	<170	<170	<1,700	<170	50 J	<830	<170
			Alt. Amend. Monitoring	12/14/2004	<120	5,300	89 J	<120	<120	<120	60 J	<120	<120	<1,200	<120	<120	<620	<120
			Week 12	1/5/2005	<50	1,900	100	<50	<50	<50	17 J	<50	<50	240 J	<50	<50	750	<50
			Alt. Amend. Monitoring	1/14/2005[a]	<50	3,000	150	<50	<50	<50	32 J	<50	<50	240 J	<50	<50	790	<50
			Week 16	1/28/2005	<100	4,600	260	<100	<100	<100	34 J	<100	<100	320 J	<100	<100	400 J	<100
			Alt. Amend. Monitoring	2/11/2005	<50	4,200	690	<50	<50	<50	39 J	<50	<50	390 J	<50	19 J	260	17 J
			Week 21	3/20/2005	<50	2,300	2,600	<50	<50	<50	31 J	<50	<50	690	<50	<50	1,600	<50
IRZB0095		A	Baseline	10/7/2003	<120	5,800	<120	<120	<120	<120	49 J	<120	<120	<1,200	<120	150	<620	150
			Week 6	11/19/2004	<100	3,900	<100	<100	<100	<100	64 J	<100	<100	<1,000	<100	85 J	<500	<100
			Alt. Amend. Monitoring	12/14/2004	<83	4,300	<83	<83	<83	<83	68 J	<83	<83	<830	<83	96	<420	<83
			Week 12	1/5/2005	9 J	1,000	9.0 J	<25	<25	<12	11 J	<25	<25	<250	<25	16 J	110 J	9.4 J
			Alt. Amend. Monitoring	1/14/2005	6.7 J	620	340	<10	<10	<10	12	<10	<10	63 J	<10	6.6 J	170	2 J
			Week 16	1/28/2005	5.7 J	450	930	<12	<12	<12	15	<12	<12	38 J	<12	12	130	<12
			Alt. Amend. Monitoring	2/11/2005	<25	440	1,100	<25	<25	<12	20 J	<25	<25	95 J	<25	13 J	160	<25
			Week 21	3/20/2005	<25	430	1,700	<25	<25	<25	25	<25	<25	<250	<25	13 J	77 J	<25
IRZMW001A		A	Baseline	10/30/2003	<500	11,000	<500	<500	<500	<500	<500	<500	<500	<5,000	<500	<500	<2,500	<500
			Week 6	11/18/2004	<120	7,200	43 J	<120	<120	<120	77 J	<120	<120	<1,200	<120	<120	<620	<120
			Week 12	1/4/2005	<120	6,900	<120	<120	<120	<120	66 J	<120	<120	<1,200	<120	<120	<620	<120
			Week 16	1/27/2005	<120	7,700	38 J	<120	<120	<120	58 J	<120	<120	<1,200	<120	<120	<620	<120
			Week 21	3/19/2005	<250	9,800	2 J	<250	<250	<250	81 J	<250	<250	<2,500	<250	<250	<1,200	<250
IRZMW001B		A	Baseline	10/30/2003	<120	4,800	54 J	<120	<120	<120	50 J	<120	<120	<1,200	<120	<120	<620	<120
			Week 6	11/18/2004	<25	1,400	<25	<25	<25	<25	19 J	<25	<25	<250	<25	<25	<120	<25
			Week 12	1/4/2005	<25	1,300	<25	<25	<25	<12	16 J	<25	<25	<250	<25	<25	<120	<25
			Week 16	1/27/2005	<25	1,600	<25	<25	<25	<12	17 J	<25	<25	<250	<25	<25	<120	<25
			Week 21	3/19/2005	<50	2,100	<50	<50	<50	<50	25 J	<50	<50	<500	<50	<50	<250	<50
IRZMW002A		A	Baseline	10/30/2003	<120	5,100	660	<120	<120	<120	63 J	<120	<120	<1,200	<120	<120	<620	<120
			Week 6	11/18/2004	<200	8,300	220	<200	<200	<200	79 J	<200	<200	<2,000	<200	<200	<1,000	<200
			Week 12	1/4/2005	<100	7,100	460	<100	<100	<100	62 J	<100	<100	<1,000	<100	<100	<500	<100
			Week 16	1/27/2005	<250	8,700	490	<250	<250	<250	<250	<250	<250	<2,500	<250	<250	<1,200	<250
			Week 21	3/19/2005[b]	<250	9,600	1,300	<250	<250	<250	81 J	<250	<250	<2,500	<250	<250	<1,200	<250
IRZMW002B		A	Baseline	10/30/2003	<12	640	80	<12	<12	<12	8.5 J	<12	<12	73 JB	<12	<12	<62	<12
			Week 6	11/18/2004	<5	230	13	<5	<5	<5	3.0 J	<5	<5	<50	<5	<5	<25	<5
			Week 12	1/4/2005	<2.5	170	6	<2.5	<2.5	<2.5	1.7 J	<2.5	<2.5	8.8 J	<2.5	<2.5	<12	<2.5
			Week 16	1/27/2005	<5	240	7	<5	<5	<5	<5	<5	<5	<50	<5	<5	<25	<5
			Week 21	3/19/2005	<5	300	18	<5	<5	<5	3.5 J	<5	<5	<50	2.2 J	<5	<25	<5
IRZMW005		A	Baseline	10/9/2003	<170	6,000	<170	<170	<170	<170	75 J	<170	<170	<1,700	<170	56 J	<830	<170
			Week 6	11/19/2004	<120	6,500	61 J	<120	<120	<120	74 J	<120	<120	<1,200	<120	51 J	<620	<120
			Alt. Amend. Monitoring	12/14/2004	<170	7,300	170	<170	<170	<170	84 J	<170	<170	<1,700	<170	54 J	<830	<170
			Week 12	1/5/2005	<25	110	1,200	<25	<25	<12	12 J	<25	<25	<250	<25	8.3 J	<120	<25
			Alt. Amend. Monitoring	1/14/2005	<100	740	5,200	<100	<100	<100	60 J	<100	<100	410 J	<100	43 J	<500	<100
			Week 16	1/28/2005	<120	880	5,500	<120	<120	<120	52 J	<120	<120	<1,200	<120	40 J	<620	<120
			Alt. Amend. Monitoring	2/11/2005	<100	540	5,800	<100	<100	<100	58 J	<100	<100	<1,000	<100	35 J	<500	<100
			Week 21	3/20/2005	<120	170	7,100	<120	<120	<120	41 J	<120	<120	<1,200	<120	<120	<620	<120
IRZMW003A		B	Baseline	10/31/2003	<500	20,000	<500	<500	<500	<500	180 J	<500	<500	3,200 JB	<500	<500	<2,500	<500
			Week 12	1/4/2005	<250	11,000	120 J	<250	<250	<250	97 J	<250	<250	<2,500	<250	<250	<1,200	<250
			Week 16	1/27/2005	<250	14,000	220 J	<250	<250	<250	78 J	<250	<250	<2,500	<250	<250	<1,200	<250
			Week 21	3/19/2005	<500	18,000	<500	<500	<500	<500	<500	<500	<500	<5,000	<500	<500	<2,500	<500
IRZMW003B		B	Baseline	10/31/2003	<25	1,000	<25	<25	<25	<25	19 J	<25	<25	130 JB	<25	<25	<120	<25
			Week 12	1/4/2005	<10	620	<10	<10	<10	<10	16	<10	<10	<100	<10	<10	<50	<10
			Week 16	1/27/2005	<10	900	<10	<10	<10	<10	16	<10	<10	<100	<10	<10	<50	<10
			Week 21	3/19/2005	<12	670	<12	<12	<12	<12	16	<12	<12	<120	<12	<12	<62	<12
IRZMW004		C	Baseline	10/7/2003	<250	8,700	<250	<250	<250	<250	81 J	<250	<250	<2,500	<250	110 J	<1,200	<250
			Alt. Amend. Monitoring	12/14/2004	<170	6,600	<170	<170	<170	<170	96 J	<170	<170	<1,700	<170	120 J	<830	<170
			Week 12	1/5/2005	<100	5,600	<100	<100	<100	<100	71 J	<100	<100	<1,000	<100	74 J	<500	<100
			Alt. Amend. Monitoring	1/14/2005	76 J	5,800	<120	<120	<120	<120	48 J	<120	<120	480 J	<120	140	<620	<120
			Alt. Amend. Monitoring	2/11/2005	<100	6,200	<100	<100	<100	<100	82 J	<100	<100	<1,000	<100	60 J	<500	<100
			Week 21	3/20/2005	<120	6,600	48 J	<120	<120	<120	73 J	<120	<120	<1,200	<120	46 J	<620	<120

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Table 3. Volatile Organic Compound Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	PCE (ug/L)	TCE (ug/L)	cis-1,2-DCE (ug/L)	trans-1,2-DCE (ug/L)	Vinyl Chloride (ug/L)	1,1,2-TCA (ug/L)	1,1-DCE (ug/L)	1,1-DCA (ug/L)	1,2-DCA (ug/L)	Acetone (ug/L)	Chlorobenzene (ug/L)	Chloroform (ug/L)	Methyl Ethyl Ketone (ug/L)	Methylene Chloride (ug/L)
CMW026	Zone C	A	Baseline	10/7/2003	<25	1,200	<25	<25	<25	<25	65	<25	<25	<250	<25	21 J	<120	<25
			Week 6	11/19/2004	<5	35	280	2.6 J	<5.0	<5	41	1.5 J	<5	<50	<5	<5	<25	<5
			Week 12	1/5/2005	<1	6.5	17	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	6.6 J	<1.0	<1.0	<5	<1.0
			Week 16	1/28/2005	<2.5	30	160	1.2 J	<2.5	<2.5	16	0.71 J	11.0 J	11 J	<2.5	<2.5	14	<2.5
			Week 21	3/19/2005	<1	3.8	40	0.47 J	<1	<1	11	<1	<1	19	<1	<1	<5	<1
IRZCMW003		B	Baseline	10/7/2003	<100	2,900	<100	<100	<100	<100	83 J	<100	<100	<1,000	<100	36 J	<500	89 J
			Week 12	1/5/2005	<100	4,300	<100	<100	<100	<100	46 J	<100	<100	<1,000	<100	<100	<500	<100
			Week 16	1/28/2005	<100	5,000	44 J	<100	<100	<100	49 J	<100	<100	<1,000	<100	<100	<500	<100
			Week 21	3/19/2005	<120	5,700	350	<120	<120	<120	69 J	<120	<120	<1,200	<120	<120	<620	<120
IRZCMW002		C	Baseline	10/8/2003	<100	4,600	<100	<100	<100	<100	39 J	<100	<100	<1,000	<100	36 J	<500	<100
			Week 12	1/5/2005	<120	5,200	<120	<120	<120	<120	<120	<120	<120	<1,200	<120	<120	<620	<120
			Week 21	3/19/2005	<120	7,700	<120	<120	<120	<120	38 J	<120	<120	<1,200	<120	<120	<620	<120
CMW001		C	Baseline	10/9/2003	<120	<120	<120	<120	<120	<120	<120	<120	<120	<1,200	7,300	60 J	<620	<120
			Week 12	1/5/2005	<250	<250	<250	<250	<250	<250	<250	<250	<250	<2,500	12,000	<250	<1,200	<250
			Week 21	3/18/2005	<400	<400	<400	<400	<400	<400	<400	<400	<400	<4,000	15,000	<400	<2,000	<400
CMW002		C	Baseline	10/8/2003	<100	460	<100	<100	<100	<100	<100	<100	<100	<1,000	3,600	<100	<500	<100
			Week 12	1/3/2005	<120	330	<120	<120	<120	<120	<120	<120	<120	<1,200	4,900	<120	<620	<120
			Week 21	3/18/2005[c]	<100	390	<100	<100	<100	<100	<100	<100	<100	<1,000	6,300	<100	<500	<100
IRZCMW001		D	Baseline	10/8/2003	<62	1,300	22 J	<62	<62	<62	350	13 J	<62	210 J	<62	76	<310	<62
			Week 6	11/18/2004	<12	920	15	6.3 J	<12	4.7 J	200	8.6 J	6.4 J	<120	<12	44	<62	<12
			Week 12	1/4/2005	<25	1,000	16 J	<25	<25	<12	250	8.4 J	<25	<250	<25	41	<120	<25
			Week 21	3/19/2005	<25	1,600	24 J	12 J	<25	8.6 J	420	15 J	11 J	<250	<25	55	<120	<25
EPA Analytical Method					8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B

Notes:

Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area
ug/L - micrograms per liter
< - not detected above indicated reporting limit

PCE - tetrachloroethene
TCE - trichloroethene
DCE - dichloroethene
TCA - trichloroethane
DCA - dichloroethane
J - estimated result less than reporting limit

JB - acetone detected at 11 ug/L in trip blank
[a] 2-Hexanone was also detected at a concentration of 2,000 ug/L.
[b] Methyl tert-butyl ether was also detected at an estimated concentration of 3.9 ug/L.
[c] Benzene was also detected at a concentration of 38 ug/L.

ARCADIS

Table 4. Permanent Gas Analytical Results
Former Building 2 Area, Boeing C-6 Facility

Well Number	Screened Zone	Well Group	Sampling Event	Sample Date	Dissolved Oxygen (mg/L)	Carbon Dioxide (mg/L)	Nitrogen (mg/L)	Methane (ug/L)	Ethane (ug/L)	Ethene (ug/L)
IRZB0081	Zone B	A	Baseline	10/9/2003	3.7	16.9	12.6	<0.2	0.06	0.11
			Week 12	1/5/2005	2.0	750	6.8	184	0.03	0.10
			Week 16	1/28/2005	<0.25	800	5.3	3.1	0.12	0.20
			Week 21	3/20/2005	0.34	790	5.7	5,300	0.03	0.17
IRZB0095		A	Baseline	10/7/2003	2.7	14.0	8.7	<0.2	0.05	0.08
			Week 6	11/19/2004	2.9	10.8	7.8	1.1	0.02	0.02
			Week 12	1/5/2005	0.30	253	6.0	3.9	0.05	0.25
			Week 16	1/28/2005	0.47	320	12	0.19	0.86	0.41
			Week 21	3/20/2005	2.7	160	23	3,100	0.01	0.34
IRZMW001A		A	Baseline	10/30/2003	1.2	27	10	2.9	0.07	0.05
			Week 6	11/18/2004	0.48	27	3.7	1.8	0.01	<0.01
			Week 12	1/4/2005	0.49	42	5.9	488	0.01	0.02
			Week 16	1/27/2005	2.0	55	16	2.6	0.03	0.09
			Week 21	3/19/2005	3.3	74	18	5,600	<0.005	<0.005
IRZMW001B		A	Baseline	10/30/2003	4.1	21	12	0.4	0.04	0.02
			Week 6	11/18/2004	3.3	15	7.9	<0.2	0.01	<0.01
			Week 12	1/4/2005	4.9	17	12	0.3	0.02	0.01
			Week 16	1/27/2005	NS	NS	NS	NS	NS	NS
			Week 21	3/19/2005	8.8	26	22	74	0.03	0.02
IRZMW002A		A	Baseline	10/30/2003	0.62	39	8.7	4.0	1.2	3.3
			Week 6	11/18/2004	0.53	103	2.5	5.2	0.02	0.12
			Week 12	1/4/2005	1.8	48	5.2	5.0	0.04	0.25
			Week 16	1/27/2005	5.1	53	17	0.02	0.08	0.07
			Week 21	3/19/2005	5.6	66	18	230	0.08	1.1
IRZMW002B		A	Baseline	10/30/2003	3.4	17	16	6.0	1.3	2.1
			Week 6	11/18/2004	1.6	14	4.7	1.3	0.02	0.02
			Week 12	1/4/2005	3.2	17	9.4	1.8	0.02	0.01
			Week 16	1/27/2005	4.5	20	16	0.01	0.04	0.18
			Week 21	3/19/2005	3.0	91	26	24	0.07	0.12
IRZMW005		A	Baseline	10/9/2003	5.0	16	14	<0.2	0.06	0.07
			Week 6	11/19/2004	0.24	208	3.6	234	<0.01	0.02
			Week 12	1/5/2005	2.8	362	15	3,998	0.03	0.32
			Week 16	1/28/2005	0.81	270	13	3.6	0.07	0.25
			Week 21	3/20/2005	2.3	380	14	10,000	<0.005	0.79
IRZMW003A		B	Baseline	10/31/2003	3.1	25	16	0.5	0.17	0.10
			Week 12	1/4/2005	3.6	156	16	913	0.01	0.08
			Week 16	1/27/2005	2.5	160	15	3.1	<0.005	0.09
			Week 21	3/19/2005	5.9	150	26	3,600	<0.005	0.04
IRZMW003B		B	Baseline	10/31/2003	3.7	18	12	0.7	0.09	0.08
			Week 12	1/4/2005	4.0	18	12	32	0.01	0.01
			Week 16	1/27/2005	7.0	20	22	0.01	<0.005	0.03
			Week 21	3/19/2005	6.6	21	24	92	0.02	0.02
IRZMW004		C	Baseline	10/7/2003	2.7	15	8.4	0.30	0.05	0.06
			Week 12	1/5/2005	3.1	17	10	2.2	0.02	0.01
			Week 21	3/20/2005	6.5	38	27	21	0.08	0.22
CMW026	Zone C	A	Baseline	10/7/2003	2.5	6.7	15	0.90	0.52	0.04
			Week 6	11/19/2004	0.27	14	8.2	1,994	<0.01	0.21
			Week 12	1/5/2005	0.89	3.4	5.5	2,038	<0.005	0.11
			Week 16	1/28/2005	2.4	45	11	17	<0.005	0.42
			Week 21	3/19/2005	7.6	7.8	25	2,100	0.01	0.35
IRZCMW003		B	Baseline	10/7/2003	1.1	7.1	12	1.6	0.95	0.88
			Week 12	1/5/2005	0.93	12	15	4.3	0.02	0.05
			Week 16	1/28/2005	3.2	11	21	0.01	0.08	0.11
			Week 21	3/19/2005	5.8	13	33	22	0.04	0.17
IRZCMW002		C	Baseline	10/8/2003	0.94	7.2	15	0.6	0.43	1.2
			Week 12	1/5/2005	0.83	6.8	9.9	0.3	0.03	0.02
			Week 21	3/19/2005	1.9	5.5	26	4.9	0.08	0.51
CMW001		C	Baseline	10/9/2003	1.7	9.1	13	4.8	1.5	2.3
			Week 12	1/5/2005	0.94	12	10	13	0.25	0.44
			Week 21	3/18/2005	3.1	15	22	22	0.42	0.35
CMW002		C	Baseline	10/8/2003	2.5	11	16	0.90	0.14	1.04
			Week 12	1/3/2005	1.1	12	11	0.80	0.13	0.12
			Week 21	3/18/2005	5.9	15	31	14	0.24	0.08
IRZCMW001		D	Baseline	10/8/2003	3.1	13	15	0.3	0.11	0.18
			Week 6	11/18/2004	0.98	13	7.1	503	<0.01	0.07
			Week 12	1/4/2005	0.72	17	11	6,810	<0.005	0.18
			Week 21	3/19/2005	3.3	19	16	11,000	<0.005	0.31
Analytical Method					RSK 175	RSK 175	RSK 175	RSK 175	RSK 175	RSK 175

Notes:

Group A: wells located within the estimated injection area
Group B: wells located at the estimated edge of the injection area
Group C: wells located downgradient of the treatment area
Group D: wells located upgradient of the treatment area

mg/L - milligrams per liter
ug/L - micrograms per liter
< - Not detected above indicated reporting limit
NS - Not Sampled

ARCADIS

Appendix A

Laboratory Reports and Chain of Custody Documents

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

April 19, 2005

STL LOT NUMBER: E5C210234
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

David Poley
ARCADIS Geraghty & Miller, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the 17 samples received under chain of custody by STL Los Angeles on March 21, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,

Diane Suzuki
Project Manager

CC: Project File

006133

Page 1 of _____ total pages in this report.

BOE-C6-0010962

LOT NUMBER E5C210234

Nonconformance 05-11868

Affected Samples:
E5C210234 (2): CMW002_WG031805_01
E5C210234 (3): CMW001_WG031805_01
E5C210234 (4): IRZMW002B_WG031905_01
E5C210234 (5): IRZMW001A_WG031905_01
E5C210234 (6): IRZMW001B_WG031905_01
E5C210234 (7): IRZMW003A_WG031905_01
E5C210234 (8): IRZMW003B_WG031905_01
E5C210234 (9): IRZMW002A_WG031905_01
E5C210234 (10): IRZCMW002_WG031905_01
E5C210234 (11): IRZCMW001_WG031905_01
E5C210234 (12): CMW026_WG031905_01
E5C210234 (13): IRZCMW003_WG031905_01
E5C210234 (14): IRZMW004_WG032005_01
E5C210234 (15): IRZB0095_WG032005_01
E5C210234 (16): IRZB0081_WG032005_01
E5C210234 (17): IRZMW005_WG032005_01

Affected Methods:
300.0 Nitrate, Nitrite

Case Narrative:
The hold time for the nitrate and nitrite analyses for samples –002 through -007 expired in transit. Samples –008 through –017 have less than 50% of the holding times for the nitrate and nitrite upon receipt at the lab. Per your request, the samples were analyzed past hold time.

Samples –014 through -017 were not received with the initial delivery. The samples were picked up on 3/21/05. Samples were logged in based on COC information.

Nonconformance 05-11909

Affected Samples:
All samples

Affected Methods:
6010B Dissolved Metals

Case Narrative:
Samples were received unfiltered and unpreserved for Dissolved Metal Analysis. Per client request, the samples were filtered and preserved with Nitric Acid to a pH<2 prior to metal digestion. Pre-preserved bottles with Nitric Acid were used as containers.

BOE-C6-0010963

E5C210234

[redacted]

hain of ustody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

-4124 (0901)

ent: ARCADIS	Project Manager: DAVID POLEY	Date: 3/18/05	Chain of Custody Number: 180268
dress: 400 N. HARBOR BLVD. SUITE 700	Telephone Number (Area Code)/Fax Number: (714) 278-0942 FAX (714) 278-0051	Lab Number: E5C210234	Page 1 of 2
y: FULLERTON; State: CA; Zip Code: 92835	Site Contact: H. HERNANDEZ; Lab Contact:		
ject Name and Location (State): BLENG C-6	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.: CA594.06.06			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (ntainers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil		Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260	Bromide	Total Mg	Dissolved Mg	Total Iron	Sulfate, Nitrate	Nitrite, Chloride	TOC	Total Iron				Special Instructions/ Conditions of Receipt
b_AR031805_01	3/18/05	—													X												
MW002_WG031805-01	3/18/05	1637		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
MW001_WG031805-01	3/18/05	1751		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2MW002B_WG031905_01	3/19/05	0736		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2MW001A_WG031905-01	3/19/05	0837		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2MW001B_WG031905_01	3/19/05	0942		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2MW003A_WG031905_01	3/19/05	1059		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2MW003B_WG031905_01	3/19/05	1225		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2MW002A_WG031905-01	3/19/05	1315		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2CMW002_WG031905_01	3/19/05	1413		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
2CMW001_WG031905_01	3/19/05	1533		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				
MW026_WG031905_01	3/19/05	1620		✓				✓	✓	✓	✓				X	X	X	X	X	X	X	X	X				

Matrix: Air, Aqueous, Sed, Soil. Containers & Preservatives: Unpres, H2SO4, HNO3, HCl, NaOH, ZnAc/NaOH.

sible Hazard Identification: Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

n Around Time Required: 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify):

Relinquished By	Date	Time	Received By	Date	Time
ARCADIS	3/21/05	0730	1. ARCADIS	3/21/05	0730
ARCADIS	3/21/05	0940	2. Vincent Padilla	3/21/05	0940
Vincent Padilla	3/21/05	1100	3. Matt Cunn	3-21-05	11:00

nments: Temp - 2.6 - 0.1 = 2.5

RIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

BOE-C6-0010964

E5C210234

[redacted]

hain of ustody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

-4124 (0901)

ent: ARCADIS	Project Manager: David Foley	Date: 3/18/05	Chain of Custody Number: ~~183372~~ 18021
dress: 100 N. Harbor Blvd. Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 FAX (714) 278-0051	Lab Number: E5C210234	Page 2 of 2
y: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez	Lab Contact:	
ject Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.: CA 594.06.06			

Sample I.D. No. and Description (ontainers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260	Bromide	Total Mg	Dissolved Mg	Total Iron	Sulfate, Nitrate	Nitrite, Chloride	TOC	Special Instructions/ Conditions of Receipt
RZCMW003-WG031905-01	3/19/05	1718		✓			✓	✓	✓	✓			X	X	X	X	X	X	X	X	
RZMW004-WG032005-01	3/20/05	0749		✓			✓	✓	✓	✓			X	X	X	X	X	X	X	X	
RZB0095-WG032005-01	3/20/05	0915		✓			✓	✓	✓	✓			X	X	X	X	X	X	X	X	
RZB0081-WG032005-01	3/20/05	1025		✓			✓	✓	✓	✓			X	X	X	X	X	X	X	X	
RZMW005-WG032005-01	3/20/05	1100		✓			✓	✓	✓	✓			X	X	X	X	X	X	X	X	

D.R. 3/21/05

ssible Hazard Identification: Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

rn Around Time Required: 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify):

Relinquished By	Date	Time	Received By	Date	Time
ARCADIS	3/21/05	0730	1. Received By: ARCADIS	3/21/05	0730
ARCADIS	3/21/05	0740	2. Received By: Vincent Pedla	3/21/05	0740
Vincent Pedla	3/21/05	1100	3. Received By: Matt Cramer	3-21-05	11:00

mments

TRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

4

BOE-C6-0010965

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 3-21-05

LIMS Lot #: E5C210234 Quote #: 48735

Client Name: ARCADIS Project: BOEING C-6

Received by: M GRASSFIELD Date/Time Received: 3.21-05 1100 (1/13)

Delivered by : ☐ Client ☑ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other _____

********** **Initial / Date**

Custody Seal Status Cooler: ☐Intact ☐Broken ☑None ..... (D) 3/21

Custody Seal Status Samples: ☐Intact ☐Broken ☑None .....

Custody Seal #(s): _____ ☑No Seal #.....

Sampler Signature on COC ☑Yes ☐No ☐N/A...

IR Gun # A Correction Factor -0.1 °C IR passed daily verification ☑ Yes ☐No .....

Temperature - **BLANK** ____ °C +/- ___ CF = _____ °C .....

Temperature – **COOLER** (① 2.6 °C ② 2.3 °C ___ °C ___ °C) = 4.9 avg °C +/- 0.1 CF = 4.8 °C..... U.P. 3/21/05

Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☑N/A... (D) 3/21

Sample Container(s): ☐ STL-LA ☐ Client .....

One COC/Multiple coolers: ☑ Yes- # coolers 2 All within temp criteria ☑ Yes ☐No ☐N/A.... U.P. 3/21/05

One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☐N/A .. (D) 3/21

Samples: ☑Intact ☐Broken ☐Other _____ .....

pH measured: ☑Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A..

Anomalies: ☐No ☑Yes – complete CUR and Create NCM NCM # _____ .....

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☐ N/A....

Labeled by: _____ Labeling checked .....

****

Turn Around Time: ☐RUSH–24HR ☐RUSH–48HR ☐RUSH–72HR ☑NORMAL ..... (D) 3/21

Short-Hold Notification: ☐ pH ☑Wet Chem ☑Metals (Filter/Pres) ☐Encore ☐ >1/2 HT expired...

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____ .....

_____ .....

_____ .....

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☐N/A _____

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # ESC210234

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2/13	14/17											
VOAH/ *	3	3	3											
1L PB		1	1											
250 PB		1	1											
250 AGBs		1	1										2/13 <2	14/17
500 PBn		1	1										2/13 <2	14/17

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A _____

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

Samples 14-17 NOT REC'D W/ INITIAL DELIVERY.

- HT ~~EXPIR~~ EXPIRED FOR NO2/NO3 ON Samples 2-9. 1/2 HT EXP 10/13

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: 3/21/05

PM Review/Date: 03-21-05

SEVERN TRENT STL

Analytical Report

BOE-C6-0010968

EXECUTIVE SUMMARY - Detection Highlights

E5C210234

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CMW002_WG031805_01 03/18/05 16:37 002				
Manganese - DISSOLVED	0.13	0.015	mg/L	SW846 6010B
Manganese	0.16	0.015	mg/L	SW846 6010B
Iron	0.29	0.10	mg/L	SW846 6010B
Benzene	38 J	100	ug/L	SW846 8260B
Chlorobenzene	6300	100	ug/L	SW846 8260B
Trichloroethene	390	100	ug/L	SW846 8260B
Chloride	110	5.0	mg/L	MCAWW 300.0A
Sulfate	85.7	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	12.7	1.0	mg/L	SW846 9060
Bromide	0.25 B	0.50	mg/L	MCAWW 300.0A
CMW001_WG031805_01 03/18/05 17:51 003				
Manganese - DISSOLVED	0.36	0.015	mg/L	SW846 6010B
Manganese	0.39	0.015	mg/L	SW846 6010B
Iron	0.15	0.10	mg/L	SW846 6010B
Chlorobenzene	15000	400	ug/L	SW846 8260B
Chloride	112	5.0	mg/L	MCAWW 300.0A
Sulfate	143	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	26.0	1.0	mg/L	SW846 9060
Bromide	0.24 B	0.50	mg/L	MCAWW 300.0A
IRZMW002B_WG031905_01 03/19/05 07:36 004				
Manganese - DISSOLVED	0.044	0.015	mg/L	SW846 6010B
Manganese	0.071	0.015	mg/L	SW846 6010B
Iron	1.3	0.10	mg/L	SW846 6010B
Chlorobenzene	2.2 J	5.0	ug/L	SW846 8260B
1,1-Dichloroethene	3.5 J	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	18	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	3.9 J	5.0	ug/L	SW846 8260B
Trichloroethene	300	5.0	ug/L	SW846 8260B
Chloride	229	5.0	mg/L	MCAWW 300.0A
Sulfate	47.8	5.0	mg/L	MCAWW 300.0A
Nitrate as N	2.7	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	5.0	1.0	mg/L	SW846 9060
Bromide	0.73	0.50	mg/L	MCAWW 300.0A

(Continued on next page)

BOE-C6-0010969

EXECUTIVE SUMMARY - Detection Highlights

E5C210234

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW001A_WG031905_01 03/19/05 08:37	**005**			
Manganese - DISSOLVED	0.15	0.015	mg/L	SW846 6010B
Manganese	0.17	0.015	mg/L	SW846 6010B
Iron	0.35	0.10	mg/L	SW846 6010B
1,1-Dichloroethene	81 J	250	ug/L	SW846 8260B
cis-1,2-Dichloroethene	120 J	250	ug/L	SW846 8260B
Trichloroethene	9800	250	ug/L	SW846 8260B
Chloride	490	10.0	mg/L	MCAWW 300.0A
Sulfate	59.3	5.0	mg/L	MCAWW 300.0A
Nitrate as N	3.1	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.6	1.0	mg/L	SW846 9060
Bromide	2.1	0.50	mg/L	MCAWW 300.0A
Nitrite as N	0.30 B,G	0.50	mg/L	MCAWW 300.0A
IRZMW001B_WG031905_01 03/19/05 09:42	**006**			
Manganese - DISSOLVED	0.0023 B	0.015	mg/L	SW846 6010B
Manganese	0.024	0.015	mg/L	SW846 6010B
Iron	0.078 B	0.10	mg/L	SW846 6010B
1,1-Dichloroethene	25 J	50	ug/L	SW846 8260B
Trichloroethene	2100	50	ug/L	SW846 8260B
Chloride	158	5.0	mg/L	MCAWW 300.0A
Sulfate	80.8	5.0	mg/L	MCAWW 300.0A
Nitrate as N	5.5	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	4.4	1.0	mg/L	SW846 9060
Bromide	0.45 B	0.50	mg/L	MCAWW 300.0A
IRZMW003A_WG031905_01 03/19/05 10:59	**007**			
Manganese - DISSOLVED	0.21	0.015	mg/L	SW846 6010B
Manganese	0.33	0.015	mg/L	SW846 6010B
Iron	4.6	0.10	mg/L	SW846 6010B
Trichloroethene	18000	500	ug/L	SW846 8260B
Chloride	147	5.0	mg/L	MCAWW 300.0A
Sulfate	14.0	1.0	mg/L	MCAWW 300.0A
Nitrate as N	1.5	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	8.4	1.0	mg/L	SW846 9060
Bromide	0.30 B	0.50	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5C210234

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW003B_WG031905_01 03/19/05 12:25	**008**			
Manganese - DISSOLVED	0.0089 B	0.015	mg/L	SW846 6010B
Manganese	0.021	0.015	mg/L	SW846 6010B
Iron	0.75	0.10	mg/L	SW846 6010B
1,1-Dichloroethene	16	12	ug/L	SW846 8260B
Trichloroethene	670	12	ug/L	SW846 8260B
Chloride	185	5.0	mg/L	MCAWW 300.0A
Sulfate	65.9	5.0	mg/L	MCAWW 300.0A
Nitrate as N	5.9	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.5	1.0	mg/L	SW846 9060
Bromide	0.56	0.50	mg/L	MCAWW 300.0A
IRZMW002A_WG031905_01 03/19/05 13:15	**009**			
Manganese - DISSOLVED	1.5	0.015	mg/L	SW846 6010B
Manganese	1.9	0.015	mg/L	SW846 6010B
Iron	3.6	0.10	mg/L	SW846 6010B
1,1-Dichloroethene	81 J	250	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1300	250	ug/L	SW846 8260B
Trichloroethene	9600	250	ug/L	SW846 8260B
Chloride	509	20.0	mg/L	MCAWW 300.0A
Sulfate	66.2	5.0	mg/L	MCAWW 300.0A
Nitrate as N	3.0	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	11.2	1.0	mg/L	SW846 9060
Bromide	1.8	0.50	mg/L	MCAWW 300.0A
IRZCMW002_WG031905_01 03/19/05 14:13	**010**			
Manganese - DISSOLVED	0.67	0.015	mg/L	SW846 6010B
Manganese	0.75	0.015	mg/L	SW846 6010B
Iron	0.20	0.10	mg/L	SW846 6010B
1,1-Dichloroethene	38 J	120	ug/L	SW846 8260B
Trichloroethene	7700	120	ug/L	SW846 8260B
Chloride	144	5.0	mg/L	MCAWW 300.0A
Sulfate	56.9	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	11.7	1.0	mg/L	SW846 9060
Bromide	0.38 B	0.50	mg/L	MCAWW 300.0A

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BOE-C6-0010971

EXECUTIVE SUMMARY - Detection Highlights

E5C210234

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZCMW001_WG031905_01 03/19/05 15:33 011				
Manganese - DISSOLVED	0.017	0.015	mg/L	SW846 6010B
Manganese	0.020	0.015	mg/L	SW846 6010B
Iron	0.093 B	0.10	mg/L	SW846 6010B
Chloroform	55	25	ug/L	SW846 8260B
1,1-Dichloroethane	15 J	25	ug/L	SW846 8260B
1,2-Dichloroethane	11 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	420	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	24 J	25	ug/L	SW846 8260B
trans-1,2-Dichloroethene	12 J	25	ug/L	SW846 8260B
1,1,2-Trichloroethane	8.6 J	25	ug/L	SW846 8260B
Trichloroethene	1600	25	ug/L	SW846 8260B
Chloride	273	10.0	mg/L	MCAWW 300.0A
Sulfate	35.9	1.0	mg/L	MCAWW 300.0A
Nitrate as N	2.0	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.7	1.0	mg/L	SW846 9060
Bromide	0.68	0.50	mg/L	MCAWW 300.0A
CMW026_WG031905_01 03/19/05 16:20 012				
Manganese - DISSOLVED	0.058	0.015	mg/L	SW846 6010B
Manganese	0.064	0.015	mg/L	SW846 6010B
Iron	1.8	0.10	mg/L	SW846 6010B
Acetone	19	10	ug/L	SW846 8260B
1,1-Dichloroethene	11	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	40	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.47 J	1.0	ug/L	SW846 8260B
Trichloroethene	3.8	1.0	ug/L	SW846 8260B
Chloride	3.8	1.0	mg/L	MCAWW 300.0A
Sulfate	5.5	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.44	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	11.0	1.0	mg/L	SW846 9060
Nitrite as N	0.080 B	0.10	mg/L	MCAWW 300.0A
IRZCMW003_WG031905_01 03/19/05 17:18 013				
Manganese - DISSOLVED	0.014 B	0.015	mg/L	SW846 6010B
Manganese	0.096	0.015	mg/L	SW846 6010B
Iron	0.77	0.10	mg/L	SW846 6010B
1,1-Dichloroethene	69 J	120	ug/L	SW846 8260B
cis-1,2-Dichloroethene	350	120	ug/L	SW846 8260B
Trichloroethene	5700	120	ug/L	SW846 8260B

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BOE-C6-0010972

EXECUTIVE SUMMARY - Detection Highlights

E5C210234

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZCMW003_WG031905_01 03/19/05 17:18	**013**			
Chloride	138	5.0	mg/L	MCAWW 300.0A
Sulfate	50.7	5.0	mg/L	MCAWW 300.0A
Nitrate as N	1.6	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	2.8	1.0	mg/L	SW846 9060
Bromide	0.36 B	0.50	mg/L	MCAWW 300.0A
IRZMW004_WG032005_01 03/20/05 07:49	**014**			
Manganese - DISSOLVED	0.50	0.015	mg/L	SW846 6010B
Manganese	0.51 J	0.015	mg/L	SW846 6010B
Iron	2.5	0.10	mg/L	SW846 6010B
Chloroform	46 J	120	ug/L	SW846 8260B
1,1-Dichloroethene	73 J	120	ug/L	SW846 8260B
cis-1,2-Dichloroethene	48 J	120	ug/L	SW846 8260B
Trichloroethene	6600	120	ug/L	SW846 8260B
Chloride	244	5.0	mg/L	MCAWW 300.0A
Sulfate	42.7	1.0	mg/L	MCAWW 300.0A
Nitrate as N	5.0	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	31.7	1.0	mg/L	SW846 9060
Bromide	0.68	0.50	mg/L	MCAWW 300.0A
IRZB0095_WG032005_01 03/20/05 09:15	**015**			
Manganese - DISSOLVED	2.3	0.015	mg/L	SW846 6010B
Manganese	3.4	0.015	mg/L	SW846 6010B
Iron	70.1	0.10	mg/L	SW846 6010B
2-Butanone	77 J	120	ug/L	SW846 8260B
Chloroform	13 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	25	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1700	25	ug/L	SW846 8260B
Trichloroethene	430	25	ug/L	SW846 8260B
Chloride	90.2	10.0	mg/L	MCAWW 300.0A
Sulfate	22.0	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.30	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	811	50.0	mg/L	SW846 9060

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5C210234

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZB0081_WG032005_01 03/20/05 10:25 016				
Manganese - DISSOLVED	9.5	0.015	mg/L	SW846 6010B
Manganese	9.6	0.015	mg/L	SW846 6010B
Iron	410	0.10	mg/L	SW846 6010B
Acetone	690	500	ug/L	SW846 8260B
2-Butanone	1600	250	ug/L	SW846 8260B
1,1-Dichloroethene	31 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2600	50	ug/L	SW846 8260B
Trichloroethene	2300	50	ug/L	SW846 8260B
Chloride	283	50.0	mg/L	MCAWW 300.0A
Sulfate	13.7	10.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3260	1000	mg/L	SW846 9060
IRZMW005_WG032005_01 03/20/05 11:00 017				
Manganese - DISSOLVED	5.2	0.015	mg/L	SW846 6010B
Manganese	5.4	0.015	mg/L	SW846 6010B
Iron	41.6	0.10	mg/L	SW846 6010B
1,1-Dichloroethene	41 J	120	ug/L	SW846 8260B
cis-1,2-Dichloroethene	7100	120	ug/L	SW846 8260B
Trichloroethene	170	120	ug/L	SW846 8260B
Chloride	438	10.0	mg/L	MCAWW 300.0A
Sulfate	5.3	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.083 B	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	353	10.0	mg/L	SW846 9060

METHODS SUMMARY

E5C210234

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Bromide	MCAWW 300.0A	MCAWW 300.0A
Chloride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5C210234

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G6NP1	001	TB_AR031805_01	03/18/05	
G6NP6	002	CMW002_WG031805_01	03/18/05	16:37
G6NQJ	003	CMW001_WG031805_01	03/18/05	17:51
G6NQQ	004	IRZMW002B_WG031905_01	03/19/05	07:36
G6NQ0	005	IRZMW001A_WG031905_01	03/19/05	08:37
G6NQ3	006	IRZMW001B_WG031905_01	03/19/05	09:42
G6NQ5	007	IRZMW003A_WG031905_01	03/19/05	10:59
G6NQ7	008	IRZMW003B_WG031905_01	03/19/05	12:25
G6NQ9	009	IRZMW002A_WG031905_01	03/19/05	13:15
G6NRD	010	IRZCMW002_WG031905_01	03/19/05	14:13
G6NRH	011	IRZCMW001_WG031905_01	03/19/05	15:33
G6NRM	012	CMW026_WG031905_01	03/19/05	16:20
G6NRX	013	IRZCMW003_WG031905_01	03/19/05	17:18
G6NTX	014	IRZMW004_WG032005_01	03/20/05	07:49
G6NT2	015	IRZB0095_WG032005_01	03/20/05	09:15
G6NT3	016	IRZB0081_WG032005_01	03/20/05	10:25
G6NT4	017	IRZMW005_WG032005_01	03/20/05	11:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

BOE-C6-0010976

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR031805_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-001 **Work Order #...:** G6NP11AA **Matrix.....:** WQ
Date Sampled...: 03/18/05 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 00:01
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR031805_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-001 **Work Order #...:** G6NP11AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(75 - 130)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	93	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG031805_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-002 **Work Order #...:** G6NP61AL **Matrix.....:** WG
Date Sampled...: 03/18/05 16:37 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 00:46
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	**38 J**	**100**	**ug/L**	**30**
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	**6300**	**100**	**ug/L**	**30**
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	ND	100	ug/L	30
cis-1,2-Dichloroethene	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG031805_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-002 **Work Order #...:** G6NP61AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**390**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	93	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG031805_01

TOTAL Metals

Lot-Sample #...: E5C210234-002 Matrix.....: WG
Date Sampled...: 03/18/05 16:37 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.16	0.015	mg/L	SW846 6010B	03/23-03/24/05	G6NP61AJ
		Dilution Factor: 1		Analysis Time..: 23:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.29	0.10	mg/L	SW846 6010B	03/23-03/24/05	G6NP61AK
		Dilution Factor: 1		Analysis Time..: 23:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG031805_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-002 Matrix.....: WG
Date Sampled...: 03/18/05 16:37 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	0.13	0.015	mg/L	SW846 6010B	03/22-03/24/05	G6NP61AH
		Dilution Factor: 1		Analysis Time..: 20:32	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG031805_01

General Chemistry

Lot-Sample #...: E5C210234-002 **Work Order #...:** G6NP6 **Matrix.....:** WG
Date Sampled...: 03/18/05 16:37 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.25 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 16:37	Analyst ID.....: 000022	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**110**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 18:33	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1		Analysis Time..: 16:37	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 18:33	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**85.7**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 5		Analysis Time..: 18:33	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	**12.7**	**1.0**	**mg/L**	**SW846 9060**	**03/22/05**	**5083247**
		Dilution Factor: 1		Analysis Time..: 21:45	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG031805_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-003 **Work Order #...:** G6NQJ1AL **Matrix.....:** WG
Date Sampled...: 03/18/05 17:51 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 01:09
Dilution Factor: 400
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	4000	ug/L	1200
Benzene	ND	400	ug/L	120
Bromobenzene	ND	400	ug/L	120
Bromochloromethane	ND	400	ug/L	120
Bromoform	ND	400	ug/L	120
Bromomethane	ND	800	ug/L	400
2-Butanone	ND	2000	ug/L	1200
n-Butylbenzene	ND	400	ug/L	120
sec-Butylbenzene	ND	400	ug/L	120
tert-Butylbenzene	ND	400	ug/L	80
Carbon disulfide	ND	400	ug/L	120
Carbon tetrachloride	ND	400	ug/L	120
Chlorobenzene	**15000**	**400**	**ug/L**	**120**
Dibromochloromethane	ND	400	ug/L	160
Bromodichloromethane	ND	400	ug/L	120
Chloroethane	ND	800	ug/L	120
Chloroform	ND	400	ug/L	120
Chloromethane	ND	800	ug/L	120
2-Chlorotoluene	ND	400	ug/L	120
4-Chlorotoluene	ND	400	ug/L	120
1,2-Dibromo-3-chloro-propane	ND	800	ug/L	280
1,2-Dibromoethane (EDB)	ND	400	ug/L	120
Dibromomethane	ND	400	ug/L	160
1,2-Dichlorobenzene	ND	400	ug/L	120
1,3-Dichlorobenzene	ND	400	ug/L	120
1,4-Dichlorobenzene	ND	400	ug/L	120
Dichlorodifluoromethane	ND	800	ug/L	160
1,1-Dichloroethane	ND	400	ug/L	80
1,2-Dichloroethane	ND	400	ug/L	160
1,1-Dichloroethene	ND	400	ug/L	120
cis-1,2-Dichloroethene	ND	400	ug/L	120
trans-1,2-Dichloroethene	ND	400	ug/L	120
1,2-Dichloropropane	ND	400	ug/L	120
1,3-Dichloropropane	ND	400	ug/L	160
2,2-Dichloropropane	ND	400	ug/L	120
1,1-Dichloropropene	ND	400	ug/L	120

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG031805_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-003 **Work Order #...:** G6NQJ1AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	400	ug/L	120
trans-1,3-Dichloropropene	ND	400	ug/L	200
Ethylbenzene	ND	400	ug/L	80
Hexachlorobutadiene	ND	400	ug/L	120
2-Hexanone	ND	2000	ug/L	1200
Isopropylbenzene	ND	400	ug/L	120
p-Isopropyltoluene	ND	400	ug/L	120
Methylene chloride	ND	400	ug/L	120
4-Methyl-2-pentanone	ND	2000	ug/L	1200
Methyl tert-butyl ether	ND	400	ug/L	200
Naphthalene	ND	400	ug/L	200
n-Propylbenzene	ND	400	ug/L	160
Styrene	ND	400	ug/L	120
1,1,1,2-Tetrachloroethane	ND	400	ug/L	120
1,1,2,2-Tetrachloroethane	ND	400	ug/L	160
Tetrachloroethene	ND	400	ug/L	120
Toluene	ND	400	ug/L	120
1,2,3-Trichlorobenzene	ND	400	ug/L	160
1,2,4-Trichloro-benzene	ND	400	ug/L	120
1,1,1-Trichloroethane	ND	400	ug/L	80
1,1,2-Trichloroethane	ND	400	ug/L	120
Trichloroethene	ND	400	ug/L	120
Trichlorofluoromethane	ND	800	ug/L	120
1,2,3-Trichloropropane	ND	400	ug/L	160
1,1,2-Trichlorotrifluoro-ethane	ND	400	ug/L	160
1,2,4-Trimethylbenzene	ND	400	ug/L	120
1,3,5-Trimethylbenzene	ND	400	ug/L	80
Vinyl chloride	ND	400	ug/L	120
m-Xylene & p-Xylene	ND	400	ug/L	200
o-Xylene	ND	400	ug/L	80
Xylenes (total)	ND	400	ug/L	320

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	106	(65 - 135)
Toluene-d8	94	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG031805_01

TOTAL Metals

Lot-Sample #...: E5C210234-003 Matrix.....: WG
Date Sampled...: 03/18/05 17:51 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.39	0.015	mg/L	SW846 6010B	03/23-03/24/05	G6NQJ1AJ
		Dilution Factor: 1		Analysis Time..: 23:26	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.15	0.10	mg/L	SW846 6010B	03/23-03/24/05	G6NQJ1AK
		Dilution Factor: 1		Analysis Time..: 23:26	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG031805_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-003 **Matrix.....:** WG
Date Sampled...: 03/18/05 17:51 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.36**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NQJ1AH**
		Dilution Factor: 1		Analysis Time..: 21:13	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG031805_01

General Chemistry

Lot-Sample #...: E5C210234-003 **Work Order #...:** G6NQJ **Matrix.....:** WG
Date Sampled...: 03/18/05 17:51 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.24 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 16:54	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**112**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 19:22	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1		Analysis Time..: 16:54	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 19:22	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**143**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 5		Analysis Time..: 19:22	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	**26.0**	**1.0**	**mg/L**	**SW846 9060**	**03/22/05**	**5083247**
		Dilution Factor: 1		Analysis Time..: 21:45	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-004 **Work Order #...:** G6NQQ1AL **Matrix.....:** WG
Date Sampled...: 03/19/05 07:36 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 01:32
Dilution Factor: 5
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	50	ug/L	15
Benzene	ND	5.0	ug/L	1.5
Bromobenzene	ND	5.0	ug/L	1.5
Bromochloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
2-Butanone	ND	25	ug/L	15
n-Butylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
Carbon disulfide	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	5.0	ug/L	1.5
Chlorobenzene	**2.2 J**	**5.0**	**ug/L**	**1.5**
Dibromochloromethane	ND	5.0	ug/L	2.0
Bromodichloromethane	ND	5.0	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Chloroform	ND	5.0	ug/L	1.5
Chloromethane	ND	10	ug/L	1.5
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2-Dibromoethane (EDB)	ND	5.0	ug/L	1.5
Dibromomethane	ND	5.0	ug/L	2.0
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
Dichlorodifluoromethane	ND	10	ug/L	2.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	2.0
1,1-Dichloroethene	**3.5 J**	**5.0**	**ug/L**	**1.5**
cis-1,2-Dichloroethene	**18**	**5.0**	**ug/L**	**1.5**
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.5
1,2-Dichloropropane	ND	5.0	ug/L	1.5
1,3-Dichloropropane	ND	5.0	ug/L	2.0
2,2-Dichloropropane	ND	5.0	ug/L	1.5
1,1-Dichloropropene	ND	5.0	ug/L	1.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-004 **Work Order #...:** G6NQQ1AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	5.0	ug/L	1.5
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.5
Ethylbenzene	ND	5.0	ug/L	1.0
Hexachlorobutadiene	ND	5.0	ug/L	1.5
2-Hexanone	ND	25	ug/L	15
Isopropylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
Methylene chloride	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Methyl tert-butyl ether	**3.9 J**	**5.0**	**ug/L**	**2.5**
Naphthalene	ND	5.0	ug/L	2.5
n-Propylbenzene	ND	5.0	ug/L	2.0
Styrene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
Tetrachloroethene	ND	5.0	ug/L	1.5
Toluene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
Trichloroethene	**300**	**5.0**	**ug/L**	**1.5**
Trichlorofluoromethane	ND	10	ug/L	1.5
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
Vinyl chloride	ND	5.0	ug/L	1.5
m-Xylene & p-Xylene	ND	5.0	ug/L	2.5
o-Xylene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-004 Matrix.....: WG
Date Sampled...: 03/19/05 07:36 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.071	0.015	mg/L	SW846 6010B	03/23-03/24/05	G6NQQ1AJ
		Dilution Factor: 1		Analysis Time..: 23:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	1.3	0.10	mg/L	SW846 6010B	03/23-03/24/05	G6NQQ1AK
		Dilution Factor: 1		Analysis Time..: 23:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-004 **Matrix.....:** WG
Date Sampled...: 03/19/05 07:36 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.044**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NQQ1AH**
		Dilution Factor: 1		Analysis Time..: 21:21	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-004 **Work Order #...:** G6NQQ **Matrix.....:** WG
Date Sampled...: 03/19/05 07:36 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.73**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 17:10	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**229**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 19:39	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	**2.7**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080567**
		Dilution Factor: 1		Analysis Time..: 17:10	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 19:39	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**47.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 5		Analysis Time..: 19:39	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	**5.0**	**1.0**	**mg/L**	**SW846 9060**	**03/22/05**	**5083247**
		Dilution Factor: 1		Analysis Time..: 21:45	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-005 **Work Order #...:** G6NQ01AL **Matrix.....:** WG
Date Sampled...: 03/19/05 08:37 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 01:54
Dilution Factor: 250
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2500	ug/L	750
Benzene	ND	250	ug/L	75
Bromobenzene	ND	250	ug/L	75
Bromochloromethane	ND	250	ug/L	75
Bromoform	ND	250	ug/L	75
Bromomethane	ND	500	ug/L	250
2-Butanone	ND	1200	ug/L	750
n-Butylbenzene	ND	250	ug/L	75
sec-Butylbenzene	ND	250	ug/L	75
tert-Butylbenzene	ND	250	ug/L	50
Carbon disulfide	ND	250	ug/L	75
Carbon tetrachloride	ND	250	ug/L	75
Chlorobenzene	ND	250	ug/L	75
Dibromochloromethane	ND	250	ug/L	100
Bromodichloromethane	ND	250	ug/L	75
Chloroethane	ND	500	ug/L	75
Chloroform	ND	250	ug/L	75
Chloromethane	ND	500	ug/L	75
2-Chlorotoluene	ND	250	ug/L	75
4-Chlorotoluene	ND	250	ug/L	75
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	180
1,2-Dibromoethane (EDB)	ND	250	ug/L	75
Dibromomethane	ND	250	ug/L	100
1,2-Dichlorobenzene	ND	250	ug/L	75
1,3-Dichlorobenzene	ND	250	ug/L	75
1,4-Dichlorobenzene	ND	250	ug/L	75
Dichlorodifluoromethane	ND	500	ug/L	100
1,1-Dichloroethane	ND	250	ug/L	50
1,2-Dichloroethane	ND	250	ug/L	100
1,1-Dichloroethene	**81 J**	**250**	**ug/L**	**75**
cis-1,2-Dichloroethene	**120 J**	**250**	**ug/L**	**75**
trans-1,2-Dichloroethene	ND	250	ug/L	75
1,2-Dichloropropane	ND	250	ug/L	75
1,3-Dichloropropane	ND	250	ug/L	100
2,2-Dichloropropane	ND	250	ug/L	75
1,1-Dichloropropene	ND	250	ug/L	75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-005 **Work Order #...:** G6NQ01AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	250	ug/L	75
trans-1,3-Dichloropropene	ND	250	ug/L	120
Ethylbenzene	ND	250	ug/L	50
Hexachlorobutadiene	ND	250	ug/L	75
2-Hexanone	ND	1200	ug/L	750
Isopropylbenzene	ND	250	ug/L	75
p-Isopropyltoluene	ND	250	ug/L	75
Methylene chloride	ND	250	ug/L	75
4-Methyl-2-pentanone	ND	1200	ug/L	750
Methyl tert-butyl ether	ND	250	ug/L	120
Naphthalene	ND	250	ug/L	120
n-Propylbenzene	ND	250	ug/L	100
Styrene	ND	250	ug/L	75
1,1,1,2-Tetrachloroethane	ND	250	ug/L	75
1,1,2,2-Tetrachloroethane	ND	250	ug/L	100
Tetrachloroethene	ND	250	ug/L	75
Toluene	ND	250	ug/L	75
1,2,3-Trichlorobenzene	ND	250	ug/L	100
1,2,4-Trichloro-benzene	ND	250	ug/L	75
1,1,1-Trichloroethane	ND	250	ug/L	50
1,1,2-Trichloroethane	ND	250	ug/L	75
Trichloroethene	**9800**	**250**	**ug/L**	**75**
Trichlorofluoromethane	ND	500	ug/L	75
1,2,3-Trichloropropane	ND	250	ug/L	100
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	100
1,2,4-Trimethylbenzene	ND	250	ug/L	75
1,3,5-Trimethylbenzene	ND	250	ug/L	50
Vinyl chloride	ND	250	ug/L	75
m-Xylene & p-Xylene	ND	250	ug/L	120
o-Xylene	ND	250	ug/L	50
Xylenes (total)	ND	250	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	94	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-005 Matrix.....: WG
Date Sampled...: 03/19/05 08:37 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.17	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NQ01AJ
		Dilution Factor: 1		Analysis Time..: 01:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.35	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NQ01AK
		Dilution Factor: 1		Analysis Time..: 01:31	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-005 **Matrix.....:** WG
Date Sampled...: 03/19/05 08:37 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.15**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NQ01AH**
		Dilution Factor: 1		Analysis Time..: 21:28	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-005 **Work Order #...:** G6NQ0 **Matrix.....:** WG
Date Sampled...: 03/19/05 08:37 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	2.1	0.50	mg/L	MCAWW 300.0A	03/21/05	5080566
		Dilution Factor: 1		Analysis Time..: 17:27	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	490	10.0	mg/L	MCAWW 300.0A	03/21/05	5080563
		Dilution Factor: 10		Analysis Time..: 21:51	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 3.0	
Nitrate as N	3.1	0.10	mg/L	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1		Analysis Time..: 17:27	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	0.30 B,G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 19:55	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	59.3	5.0	mg/L	MCAWW 300.0A	03/21/05	5080569
		Dilution Factor: 5		Analysis Time..: 19:55	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	3.6	1.0	mg/L	SW846 9060	03/22/05	5083247
		Dilution Factor: 1		Analysis Time..: 21:43	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-006 **Work Order #...:** G6NQ31AL **Matrix.....:** WG
Date Sampled...: 03/19/05 09:42 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 02:17
Dilution Factor: 50
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	500	ug/L	150
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Bromomethane	ND	100	ug/L	50
2-Butanone	ND	250	ug/L	150
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	15
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	15
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**25 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	ND	50	ug/L	15
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	15
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-006 **Work Order #...:** G6NQ31AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	10
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	150
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	15
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**2100**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	94	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-006 Matrix.....: WG
Date Sampled...: 03/19/05 09:42 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.024	0.015	mg/L	SW846 6010B	03/23-03/24/05	G6NQ31AJ
		Dilution Factor: 1		Analysis Time..: 23:57	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.078 B	0.10	mg/L	SW846 6010B	03/23-03/24/05	G6NQ31AK
		Dilution Factor: 1		Analysis Time..: 23:57	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-006 Matrix.....: WG
Date Sampled...: 03/19/05 09:42 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	0.0023 B	0.015	mg/L	SW846 6010B	03/22-03/24/05	G6NQ31AH
		Dilution Factor: 1		Analysis Time..: 21:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-006 Work Order #...: G6NQ3 Matrix.....: WG
Date Sampled...: 03/19/05 09:42 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.45 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 17:43	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**158**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 20:12	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	**5.5**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080567**
		Dilution Factor: 1		Analysis Time..: 17:43	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 20:12	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**80.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 5		Analysis Time..: 20:12	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	**4.4**	**1.0**	**mg/L**	**SW846 9060**	**03/22/05**	**5083247**
		Dilution Factor: 1		Analysis Time..: 21:45	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-007 **Work Order #...:** G6NQ51AL **Matrix.....:** WG
Date Sampled...: 03/19/05 10:59 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 02:40
Dilution Factor: 500
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	5000	ug/L	1500
Benzene	ND	500	ug/L	150
Bromobenzene	ND	500	ug/L	150
Bromochloromethane	ND	500	ug/L	150
Bromoform	ND	500	ug/L	150
Bromomethane	ND	1000	ug/L	500
2-Butanone	ND	2500	ug/L	1500
n-Butylbenzene	ND	500	ug/L	150
sec-Butylbenzene	ND	500	ug/L	150
tert-Butylbenzene	ND	500	ug/L	100
Carbon disulfide	ND	500	ug/L	150
Carbon tetrachloride	ND	500	ug/L	150
Chlorobenzene	ND	500	ug/L	150
Dibromochloromethane	ND	500	ug/L	200
Bromodichloromethane	ND	500	ug/L	150
Chloroethane	ND	1000	ug/L	150
Chloroform	ND	500	ug/L	150
Chloromethane	ND	1000	ug/L	150
2-Chlorotoluene	ND	500	ug/L	150
4-Chlorotoluene	ND	500	ug/L	150
1,2-Dibromo-3-chloro-propane	ND	1000	ug/L	350
1,2-Dibromoethane (EDB)	ND	500	ug/L	150
Dibromomethane	ND	500	ug/L	200
1,2-Dichlorobenzene	ND	500	ug/L	150
1,3-Dichlorobenzene	ND	500	ug/L	150
1,4-Dichlorobenzene	ND	500	ug/L	150
Dichlorodifluoromethane	ND	1000	ug/L	200
1,1-Dichloroethane	ND	500	ug/L	100
1,2-Dichloroethane	ND	500	ug/L	200
1,1-Dichloroethene	ND	500	ug/L	150
cis-1,2-Dichloroethene	ND	500	ug/L	150
trans-1,2-Dichloroethene	ND	500	ug/L	150
1,2-Dichloropropane	ND	500	ug/L	150
1,3-Dichloropropane	ND	500	ug/L	200
2,2-Dichloropropane	ND	500	ug/L	150
1,1-Dichloropropene	ND	500	ug/L	150

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-007 **Work Order #...:** G6NQ51AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	500	ug/L	150
trans-1,3-Dichloropropene	ND	500	ug/L	250
Ethylbenzene	ND	500	ug/L	100
Hexachlorobutadiene	ND	500	ug/L	150
2-Hexanone	ND	2500	ug/L	1500
Isopropylbenzene	ND	500	ug/L	150
p-Isopropyltoluene	ND	500	ug/L	150
Methylene chloride	ND	500	ug/L	150
4-Methyl-2-pentanone	ND	2500	ug/L	1500
Methyl tert-butyl ether	ND	500	ug/L	250
Naphthalene	ND	500	ug/L	250
n-Propylbenzene	ND	500	ug/L	200
Styrene	ND	500	ug/L	150
1,1,1,2-Tetrachloroethane	ND	500	ug/L	150
1,1,2,2-Tetrachloroethane	ND	500	ug/L	200
Tetrachloroethene	ND	500	ug/L	150
Toluene	ND	500	ug/L	150
1,2,3-Trichlorobenzene	ND	500	ug/L	200
1,2,4-Trichloro-benzene	ND	500	ug/L	150
1,1,1-Trichloroethane	ND	500	ug/L	100
1,1,2-Trichloroethane	ND	500	ug/L	150
Trichloroethene	**18000**	**500**	**ug/L**	**150**
Trichlorofluoromethane	ND	1000	ug/L	150
1,2,3-Trichloropropane	ND	500	ug/L	200
1,1,2-Trichlorotrifluoro-ethane	ND	500	ug/L	200
1,2,4-Trimethylbenzene	ND	500	ug/L	150
1,3,5-Trimethylbenzene	ND	500	ug/L	100
Vinyl chloride	ND	500	ug/L	150
m-Xylene & p-Xylene	ND	500	ug/L	250
o-Xylene	ND	500	ug/L	100
Xylenes (total)	ND	500	ug/L	400

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	94	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-007 Matrix.....: WG
Date Sampled...: 03/19/05 10:59 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.33	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NQ51AJ
		Dilution Factor: 1		Analysis Time..: 00:04	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	4.6	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NQ51AK
		Dilution Factor: 1		Analysis Time..: 00:04	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-007 **Matrix.....:** WG
Date Sampled...: 03/19/05 10:59 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.21**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NQ51AH**
		Dilution Factor: 1		Analysis Time..: 21:44	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-007 **Work Order #...:** G6NQ5 **Matrix.....:** WG
Date Sampled...: 03/19/05 10:59 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.30 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 18:00	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**147**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 20:28	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	**1.5**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080567**
		Dilution Factor: 1		Analysis Time..: 18:00	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 20:28	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**14.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 1		Analysis Time..: 18:00	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 0.20	
Total Organic Carbon (TOC)	**8.4**	**1.0**	**mg/L**	**SW846 9060**	**03/22/05**	**5083247**
		Dilution Factor: 1		Analysis Time..: 21:45	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-008 **Work Order #...:** G6NQ71AL **Matrix.....:** WG
Date Sampled...: 03/19/05 12:25 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 03:02
Dilution Factor: 12.5
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	120	ug/L	38
Benzene	ND	12	ug/L	3.8
Bromobenzene	ND	12	ug/L	3.8
Bromochloromethane	ND	12	ug/L	3.8
Bromoform	ND	12	ug/L	3.8
Bromomethane	ND	25	ug/L	12
2-Butanone	ND	62	ug/L	38
n-Butylbenzene	ND	12	ug/L	3.8
sec-Butylbenzene	ND	12	ug/L	3.8
tert-Butylbenzene	ND	12	ug/L	2.5
Carbon disulfide	ND	12	ug/L	3.8
Carbon tetrachloride	ND	12	ug/L	3.8
Chlorobenzene	ND	12	ug/L	3.8
Dibromochloromethane	ND	12	ug/L	5.0
Bromodichloromethane	ND	12	ug/L	3.8
Chloroethane	ND	25	ug/L	3.8
Chloroform	ND	12	ug/L	3.8
Chloromethane	ND	25	ug/L	3.8
2-Chlorotoluene	ND	12	ug/L	3.8
4-Chlorotoluene	ND	12	ug/L	3.8
1,2-Dibromo-3-chloro-propane	ND	25	ug/L	8.8
1,2-Dibromoethane (EDB)	ND	12	ug/L	3.8
Dibromomethane	ND	12	ug/L	5.0
1,2-Dichlorobenzene	ND	12	ug/L	3.8
1,3-Dichlorobenzene	ND	12	ug/L	3.8
1,4-Dichlorobenzene	ND	12	ug/L	3.8
Dichlorodifluoromethane	ND	25	ug/L	5.0
1,1-Dichloroethane	ND	12	ug/L	2.5
1,2-Dichloroethane	ND	12	ug/L	5.0
1,1-Dichloroethene	**16**	**12**	**ug/L**	**3.8**
cis-1,2-Dichloroethene	ND	12	ug/L	3.8
trans-1,2-Dichloroethene	ND	12	ug/L	3.8
1,2-Dichloropropane	ND	12	ug/L	3.8
1,3-Dichloropropane	ND	12	ug/L	5.0
2,2-Dichloropropane	ND	12	ug/L	3.8
1,1-Dichloropropene	ND	12	ug/L	3.8

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-008 **Work Order #...:** G6NQ71AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	12	ug/L	3.8
trans-1,3-Dichloropropene	ND	12	ug/L	6.2
Ethylbenzene	ND	12	ug/L	2.5
Hexachlorobutadiene	ND	12	ug/L	3.8
2-Hexanone	ND	62	ug/L	38
Isopropylbenzene	ND	12	ug/L	3.8
p-Isopropyltoluene	ND	12	ug/L	3.8
Methylene chloride	ND	12	ug/L	3.8
4-Methyl-2-pentanone	ND	62	ug/L	38
Methyl tert-butyl ether	ND	12	ug/L	6.2
Naphthalene	ND	12	ug/L	6.2
n-Propylbenzene	ND	12	ug/L	5.0
Styrene	ND	12	ug/L	3.8
1,1,1,2-Tetrachloroethane	ND	12	ug/L	3.8
1,1,2,2-Tetrachloroethane	ND	12	ug/L	5.0
Tetrachloroethene	ND	12	ug/L	3.8
Toluene	ND	12	ug/L	3.8
1,2,3-Trichlorobenzene	ND	12	ug/L	5.0
1,2,4-Trichloro-benzene	ND	12	ug/L	3.8
1,1,1-Trichloroethane	ND	12	ug/L	2.5
1,1,2-Trichloroethane	ND	12	ug/L	3.8
Trichloroethene	**670**	**12**	**ug/L**	**3.8**
Trichlorofluoromethane	ND	25	ug/L	3.8
1,2,3-Trichloropropane	ND	12	ug/L	5.0
1,1,2-Trichlorotrifluoro-ethane	ND	12	ug/L	5.0
1,2,4-Trimethylbenzene	ND	12	ug/L	3.8
1,3,5-Trimethylbenzene	ND	12	ug/L	2.5
Vinyl chloride	ND	12	ug/L	3.8
m-Xylene & p-Xylene	ND	12	ug/L	6.2
o-Xylene	ND	12	ug/L	2.5
Xylenes (total)	ND	12	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	94	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-008 Matrix.....: WG
Date Sampled...: 03/19/05 12:25 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.021	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NQ71AJ
		Dilution Factor: 1		Analysis Time..: 00:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.75	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NQ71AK
		Dilution Factor: 1		Analysis Time..: 00:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-008 Matrix.....: WG
Date Sampled...: 03/19/05 12:25 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	0.0089 B	0.015	mg/L	SW846 6010B	03/22-03/24/05	G6NQ71AH
		Dilution Factor: 1		Analysis Time..: 21:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-008 **Work Order #...:** G6NQ7 **Matrix.....:** WG
Date Sampled...: 03/19/05 12:25 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.56**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 18:16	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**185**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 20:45	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	**5.9**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080567**
		Dilution Factor: 1		Analysis Time..: 18:16	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 20:45	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**65.9**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 5		Analysis Time..: 20:45	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	**3.5**	**1.0**	**mg/L**	**SW846 9060**	**03/22/05**	**5083247**
		Dilution Factor: 1		Analysis Time..: 21:45	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-009 **Work Order #...:** G6NQ91AL **Matrix.....:** WG
Date Sampled...: 03/19/05 13:15 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 03:25
Dilution Factor: 250
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2500	ug/L	750
Benzene	ND	250	ug/L	75
Bromobenzene	ND	250	ug/L	75
Bromochloromethane	ND	250	ug/L	75
Bromoform	ND	250	ug/L	75
Bromomethane	ND	500	ug/L	250
2-Butanone	ND	1200	ug/L	750
n-Butylbenzene	ND	250	ug/L	75
sec-Butylbenzene	ND	250	ug/L	75
tert-Butylbenzene	ND	250	ug/L	50
Carbon disulfide	ND	250	ug/L	75
Carbon tetrachloride	ND	250	ug/L	75
Chlorobenzene	ND	250	ug/L	75
Dibromochloromethane	ND	250	ug/L	100
Bromodichloromethane	ND	250	ug/L	75
Chloroethane	ND	500	ug/L	75
Chloroform	ND	250	ug/L	75
Chloromethane	ND	500	ug/L	75
2-Chlorotoluene	ND	250	ug/L	75
4-Chlorotoluene	ND	250	ug/L	75
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	180
1,2-Dibromoethane (EDB)	ND	250	ug/L	75
Dibromomethane	ND	250	ug/L	100
1,2-Dichlorobenzene	ND	250	ug/L	75
1,3-Dichlorobenzene	ND	250	ug/L	75
1,4-Dichlorobenzene	ND	250	ug/L	75
Dichlorodifluoromethane	ND	500	ug/L	100
1,1-Dichloroethane	ND	250	ug/L	50
1,2-Dichloroethane	ND	250	ug/L	100
1,1-Dichloroethene	**81 J**	**250**	**ug/L**	**75**
cis-1,2-Dichloroethene	**1300**	**250**	**ug/L**	**75**
trans-1,2-Dichloroethene	ND	250	ug/L	75
1,2-Dichloropropane	ND	250	ug/L	75
1,3-Dichloropropane	ND	250	ug/L	100
2,2-Dichloropropane	ND	250	ug/L	75
1,1-Dichloropropene	ND	250	ug/L	75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-009 **Work Order #...:** G6NQ91AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	250	ug/L	75
trans-1,3-Dichloropropene	ND	250	ug/L	120
Ethylbenzene	ND	250	ug/L	50
Hexachlorobutadiene	ND	250	ug/L	75
2-Hexanone	ND	1200	ug/L	750
Isopropylbenzene	ND	250	ug/L	75
p-Isopropyltoluene	ND	250	ug/L	75
Methylene chloride	ND	250	ug/L	75
4-Methyl-2-pentanone	ND	1200	ug/L	750
Methyl tert-butyl ether	ND	250	ug/L	120
Naphthalene	ND	250	ug/L	120
n-Propylbenzene	ND	250	ug/L	100
Styrene	ND	250	ug/L	75
1,1,1,2-Tetrachloroethane	ND	250	ug/L	75
1,1,2,2-Tetrachloroethane	ND	250	ug/L	100
Tetrachloroethene	ND	250	ug/L	75
Toluene	ND	250	ug/L	75
1,2,3-Trichlorobenzene	ND	250	ug/L	100
1,2,4-Trichloro-benzene	ND	250	ug/L	75
1,1,1-Trichloroethane	ND	250	ug/L	50
1,1,2-Trichloroethane	ND	250	ug/L	75
Trichloroethene	**9600**	**250**	**ug/L**	**75**
Trichlorofluoromethane	ND	500	ug/L	75
1,2,3-Trichloropropane	ND	250	ug/L	100
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	100
1,2,4-Trimethylbenzene	ND	250	ug/L	75
1,3,5-Trimethylbenzene	ND	250	ug/L	50
Vinyl chloride	ND	250	ug/L	75
m-Xylene & p-Xylene	ND	250	ug/L	120
o-Xylene	ND	250	ug/L	50
Xylenes (total)	ND	250	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	111	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-009 Matrix.....: WG
Date Sampled...: 03/19/05 13:15 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	1.9	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NQ91AJ
		Dilution Factor: 1		Analysis Time..: 00:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	3.6	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NQ91AK
		Dilution Factor: 1		Analysis Time..: 00:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-009 **Matrix.....:** WG
Date Sampled...: 03/19/05 13:15 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**1.5**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NQ91AH**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-009 Work Order #...: G6NQ9 Matrix.....: WG
Date Sampled...: 03/19/05 13:15 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	1.8	0.50	mg/L	MCAWW 300.0A	03/21/05	5080566
		Dilution Factor: 1		Analysis Time..: 12:37	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	509	20.0	mg/L	MCAWW 300.0A	03/21/05	5080563
		Dilution Factor: 20		Analysis Time..: 12:53	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 6.0	
Nitrate as N	3.0	0.10	mg/L	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1		Analysis Time..: 12:37	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 13:10	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	66.2	5.0	mg/L	MCAWW 300.0A	03/21/05	5080569
		Dilution Factor: 5		Analysis Time..: 13:10	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	11.2	1.0	mg/L	SW846 9060	03/22/05	5083247
		Dilution Factor: 1		Analysis Time..: 21:45	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083153	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-010 **Work Order #...:** G6NRD1AL **Matrix.....:** WG
Date Sampled...: 03/19/05 14:13 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 03:48
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**38 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	ND	120	ug/L	38
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-010 **Work Order #...:** G6NRD1AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**7700**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-010 Matrix.....: WG
Date Sampled...: 03/19/05 14:13 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.75	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NRD1AJ
		Dilution Factor: 1		Analysis Time..: 00:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.20	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NRD1AK
		Dilution Factor: 1		Analysis Time..: 00:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-010 **Matrix.....:** WG
Date Sampled...: 03/19/05 14:13 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.67**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NRD1AH**
		Dilution Factor: 1		Analysis Time..: 22:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-010 **Work Order #...:** G6NRD **Matrix.....:** WG
Date Sampled...: 03/19/05 14:13 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.38 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**144**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 13:43	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1		Analysis Time..: 13:26	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 13:43	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**56.9**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 5		Analysis Time..: 13:43	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	**11.7**	**1.0**	**mg/L**	**SW846 9060**	**03/23/05**	**5083489**
		Dilution Factor: 1		Analysis Time..: 22:16	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083295	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-011 **Work Order #...:** G6NRH1AL **Matrix.....:** WG
Date Sampled...: 03/19/05 15:33 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 04:10
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	ND	120	ug/L	75
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	**55**	**25**	**ug/L**	**7.5**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	**15 J**	**25**	**ug/L**	**5.0**
1,2-Dichloroethane	**11 J**	**25**	**ug/L**	**10**
1,1-Dichloroethene	**420**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**24 J**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	**12 J**	**25**	**ug/L**	**7.5**
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-011 **Work Order #...:** G6NRH1AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	**8.6 J**	**25**	**ug/L**	**7.5**
Trichloroethene	**1600**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-011 Matrix.....: WG
Date Sampled...: 03/19/05 15:33 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.020	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NRH1AJ
		Dilution Factor: 1		Analysis Time..: 00:35	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.093 B	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NRH1AK
		Dilution Factor: 1		Analysis Time..: 00:35	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-011 **Matrix.....:** WG
Date Sampled...: 03/19/05 15:33 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.017**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NRH1AH**
		Dilution Factor: 1		Analysis Time..: 22:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-011 Work Order #...: G6NRH Matrix.....: WG
Date Sampled...: 03/19/05 15:33 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	0.68	0.50	mg/L	MCAWW 300.0A	03/21/05	5080566
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	273	10.0	mg/L	MCAWW 300.0A	03/21/05	5080563
		Dilution Factor: 10		Analysis Time..: 14:16	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 3.0	
Nitrate as N	2.0	0.10	mg/L	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	1.0	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 10		Analysis Time..: 14:16	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.30	
Sulfate	35.9	1.0	mg/L	MCAWW 300.0A	03/21/05	5080569
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 0.20	
Total Organic Carbon (TOC)	3.7	1.0	mg/L	SW846 9060	03/23/05	5083489
		Dilution Factor: 1		Analysis Time..: 22:16	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083295	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-012 **Work Order #...:** G6NRM1AL **Matrix.....:** WG
Date Sampled...: 03/19/05 16:20 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 00:24
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**19**	**10**	**ug/L**	**3.0**
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	**11**	**1.0**	**ug/L**	**0.30**
cis-1,2-Dichloroethene	**40**	**1.0**	**ug/L**	**0.30**
trans-1,2-Dichloroethene	**0.47 J**	**1.0**	**ug/L**	**0.30**
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-012 **Work Order #...:** G6NRM1AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	**3.8**	**1.0**	**ug/L**	**0.30**
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	97	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-012 Matrix.....: WG
Date Sampled...: 03/19/05 16:20 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.064	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NRM1AJ
		Dilution Factor: 1		Analysis Time..: 00:42	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	1.8	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NRM1AK
		Dilution Factor: 1		Analysis Time..: 00:42	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-012 **Matrix.....:** WG
Date Sampled...: 03/19/05 16:20 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.058**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NRM1AH**
		Dilution Factor: 1		Analysis Time..: 22:35	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-012 **Work Order #...:** G6NRM **Matrix.....:** WG
Date Sampled...: 03/19/05 16:20 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND	0.50	mg/L	MCAWW 300.0A	03/21/05	5080566
		Dilution Factor: 1		Analysis Time..: 14:32	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**3.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 1		Analysis Time..: 14:32	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 0.30	
Nitrate as N	**0.44**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080567**
		Dilution Factor: 1		Analysis Time..: 14:32	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	**0.080 B**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080565**
		Dilution Factor: 1		Analysis Time..: 14:32	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.030	
Sulfate	**5.5**	**1.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 1		Analysis Time..: 14:32	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 0.20	
Total Organic Carbon (TOC)	**11.0**	**1.0**	**mg/L**	**SW846 9060**	**03/23/05**	**5083489**
		Dilution Factor: 1		Analysis Time..: 22:16	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5083295	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-013 **Work Order #...:** G6NRX1AL **Matrix.....:** WG
Date Sampled...: 03/19/05 17:18 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 04:33
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**69 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	**350**	**120**	**ug/L**	**38**
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG031905_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-013 **Work Order #...:** G6NRX1AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**5700**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 130)
1,2-Dichloroethane-d4	111	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG031905_01

TOTAL Metals

Lot-Sample #...: E5C210234-013 Matrix.....: WG
Date Sampled...: 03/19/05 17:18 Date Received..: 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	0.096	0.015	mg/L	SW846 6010B	03/23-03/25/05	G6NRX1AJ
		Dilution Factor: 1		Analysis Time..: 00:50	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	0.77	0.10	mg/L	SW846 6010B	03/23-03/25/05	G6NRX1AK
		Dilution Factor: 1		Analysis Time..: 00:50	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG031905_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-013 **Matrix.....:** WG
Date Sampled...: 03/19/05 17:18 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.014 B**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NRX1AH**
		Dilution Factor: 1		Analysis Time..: 22:42	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG031905_01

General Chemistry

Lot-Sample #...: E5C210234-013 **Work Order #...:** G6NRX **Matrix.....:** WG
Date Sampled...: 03/19/05 17:18 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.36 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 14:49	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**138**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080563**
		Dilution Factor: 5		Analysis Time..: 15:14	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081030	MDL.....: 1.5	
Nitrate as N	**1.6**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080567**
		Dilution Factor: 1		Analysis Time..: 14:49	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 5		Analysis Time..: 15:14	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081031	MDL.....: 0.15	
Sulfate	**50.7**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/21/05**	**5080569**
		Dilution Factor: 5		Analysis Time..: 15:14	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 1.0	
Total Organic Carbon (TOC)	**2.8**	**1.0**	**mg/L**	**SW846 9060**	**03/24/05**	**5088189**
		Dilution Factor: 1		Analysis Time..: 21:36	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5088093	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-014 **Work Order #...:** G6NTX1AL **Matrix.....:** WG
Date Sampled...: 03/20/05 07:49 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 04:56
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	**46 J**	**120**	**ug/L**	**38**
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**73 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	**48 J**	**120**	**ug/L**	**38**
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-014 **Work Order #...:** G6NTX1AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**6600**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG032005_01

TOTAL Metals

Lot-Sample #...: E5C210234-014 **Matrix.....:** WG
Date Sampled...: 03/20/05 07:49 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5088355						
Manganese	**0.51 J**	**0.015**	**mg/L**	**SW846 6010B**	**03/29-03/30/05**	**G6NTX1AJ**
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 000023	
		Instrument ID..: M01		MS Run #.....: 5088178	MDL.....: 0.0010	
Iron	**2.5**	**0.10**	**mg/L**	**SW846 6010B**	**03/29-03/30/05**	**G6NTX1AK**
		Dilution Factor: 1		Analysis Time..: 21:11	Analyst ID.....: 000023	
		Instrument ID..: M01		MS Run #.....: 5088178	MDL.....: 0.030	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG032005_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-014 **Matrix.....:** WG
Date Sampled...: 03/20/05 07:49 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**0.50**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NTX1AH**
		Dilution Factor: 1		Analysis Time..: 22:50	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG032005_01

General Chemistry

Lot-Sample #...: E5C210234-014 **Work Order #...:** G6NTX **Matrix.....:** WG
Date Sampled...: 03/20/05 07:49 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.68**	**0.50**	**mg/L**	**MCAWW 300.0A**	**03/21-03/22/05**	**5080566**
		Dilution Factor: 1		Analysis Time..: 01:09	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081032	MDL.....: 0.10	
Chloride	**244**	**5.0**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081357**
		Dilution Factor: 5		Analysis Time..: 07:25	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5081197	MDL.....: 1.5	
Nitrate as N	**5.0**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/21-03/22/05**	**5080567**
		Dilution Factor: 1		Analysis Time..: 01:09	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5081034	MDL.....: 0.030	
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	03/22/05	5081361
		Dilution Factor: 5		Analysis Time..: 07:25	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081200	MDL.....: 0.15	
Sulfate	**42.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	**03/21-03/22/05**	**5080569**
		Dilution Factor: 1		Analysis Time..: 01:09	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081035	MDL.....: 0.20	
Total Organic Carbon (TOC)	**31.7**	**1.0**	**mg/L**	**SW846 9060**	**03/24/05**	**5088189**
		Dilution Factor: 1		Analysis Time..: 21:36	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5088093	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-015 **Work Order #...:** G6NT21AL **Matrix.....:** WG
Date Sampled...: 03/20/05 09:15 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 05:18
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	**77 J**	**120**	**ug/L**	**75**
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	**13 J**	**25**	**ug/L**	**7.5**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	ND	25	ug/L	5.0
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**25**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**1700**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-015 **Work Order #...:** G6NT21AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**430**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(75 - 130)
1,2-Dichloroethane-d4	108	(65 - 135)
Toluene-d8	93	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG032005_01

TOTAL Metals

Lot-Sample #...: E5C210234-015 **Matrix.....:** WG
Date Sampled...: 03/20/05 09:15 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	**3.4**	**0.015**	**mg/L**	**SW846 6010B**	**03/23-03/25/05**	**G6NT21AJ**
		Dilution Factor: 1		Analysis Time..: 00:57	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	**70.1**	**0.10**	**mg/L**	**SW846 6010B**	**03/23-03/25/05**	**G6NT21AK**
		Dilution Factor: 1		Analysis Time..: 00:57	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG032005_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-015 **Matrix.....:** WG
Date Sampled...: 03/20/05 09:15 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**2.3**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NT21AH**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG032005_01

General Chemistry

Lot-Sample #...: E5C210234-015 **Work Order #...:** G6NT2 **Matrix.....:** WG
Date Sampled...: 03/20/05 09:15 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND G	5.0	mg/L	MCAWW 300.0A	03/22/05	5081364
		Dilution Factor: 10		Analysis Time..: 07:58	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081201	MDL.....: 1.0	
Chloride	**90.2**	**10.0**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081357**
		Dilution Factor: 10		Analysis Time..: 07:58	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081197	MDL.....: 3.0	
Nitrate as N	**0.30**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081365**
		Dilution Factor: 1		Analysis Time..: 07:42	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5081204	MDL.....: 0.030	
Nitrite as N	ND G	1.0	mg/L	MCAWW 300.0A	03/22/05	5081361
		Dilution Factor: 10		Analysis Time..: 07:58	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081200	MDL.....: 0.30	
Sulfate	**22.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081367**
		Dilution Factor: 1		Analysis Time..: 07:42	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081206	MDL.....: 0.20	
Total Organic Carbon (TOC)	**811**	**50.0**	**mg/L**	**SW846 9060**	**03/24/05**	**5088189**
		Dilution Factor: 50		Analysis Time..: 21:36	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5088093	MDL.....: 20.0	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-016 **Work Order #...:** G6NT31AL **Matrix.....:** WG
Date Sampled...: 03/20/05 10:25 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5095121
Prep Date.....: 04/01/05 **Analysis Date..:** 04/01/05
Prep Batch #...: 5094568 **Analysis Time..:** 10:53
Dilution Factor: 50
Analyst ID.....: 004648 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**690**	**500**	**ug/L**	**150**
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Bromomethane	ND	100	ug/L	50
2-Butanone	**1600**	**250**	**ug/L**	**150**
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	15
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	15
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**31 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**2600**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	15
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-016 **Work Order #...:** G6NT31AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	10
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	150
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	15
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**2300**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG032005_01

TOTAL Metals

Lot-Sample #...: E5C210234-016 **Matrix.....:** WG
Date Sampled...: 03/20/05 10:25 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	**9.6**	**0.015**	**mg/L**	**SW846 6010B**	**03/23-03/25/05**	**G6NT31AJ**
		Dilution Factor: 1		Analysis Time..: 01:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	**410**	**0.10**	**mg/L**	**SW846 6010B**	**03/23-03/25/05**	**G6NT31AK**
		Dilution Factor: 1		Analysis Time..: 01:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG032005_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-016 **Matrix.....:** WG
Date Sampled...: 03/20/05 10:25 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**9.5**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NT31AH**
		Dilution Factor: 1		Analysis Time..: 23:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG032005_01

General Chemistry

Lot-Sample #...: E5C210234-016 **Work Order #...:** G6NT3 **Matrix.....:** WG
Date Sampled...: 03/20/05 10:25 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND G	25.0	mg/L	MCAWW 300.0A	03/22/05	5081364
		Dilution Factor: 50		Analysis Time..: 11:18	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081201	MDL.....: 5.0	
Chloride	**283**	**50.0**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081357**
		Dilution Factor: 50		Analysis Time..: 11:18	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081197	MDL.....: 15.0	
Nitrate as N	ND G	1.0	mg/L	MCAWW 300.0A	03/22/05	5081365
		Dilution Factor: 10		Analysis Time..: 09:22	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5081204	MDL.....: 0.30	
Nitrite as N	ND G	5.0	mg/L	MCAWW 300.0A	03/22/05	5081361
		Dilution Factor: 50		Analysis Time..: 11:18	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081200	MDL.....: 1.5	
Sulfate	**13.7**	**10.0**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081367**
		Dilution Factor: 10		Analysis Time..: 09:22	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081206	MDL.....: 2.0	
Total Organic Carbon (TOC)	**3260**	**1000**	**mg/L**	**SW846 9060**	**03/24/05**	**5088189**
		Dilution Factor: 1000		Analysis Time..: 21:36	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5088093	MDL.....: 400	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-017 **Work Order #...:** G6NT41AL **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00 **MS Run #.....:** 5084296
Prep Date.....: 03/24/05 **Analysis Date..:** 03/25/05
Prep Batch #...: 5084447 **Analysis Time..:** 05:41
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSQ
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**41 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	**7100**	**120**	**ug/L**	**38**
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG032005_01

GC/MS Volatiles

Lot-Sample #...: E5C210234-017 **Work Order #...:** G6NT41AL **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**170**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	111	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG032005_01

TOTAL Metals

Lot-Sample #...: E5C210234-017 **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5082296						
Manganese	**5.4**	**0.015**	**mg/L**	**SW846 6010B**	**03/23-03/25/05**	**G6NT41AJ**
		Dilution Factor: 1		Analysis Time..: 01:24	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.0010	
Iron	**41.6**	**0.10**	**mg/L**	**SW846 6010B**	**03/23-03/25/05**	**G6NT41AK**
		Dilution Factor: 1		Analysis Time..: 01:24	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5082187	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG032005_01

DISSOLVED Metals

Lot-Sample #...: E5C210234-017 **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5080555						
Manganese	**5.2**	**0.015**	**mg/L**	**SW846 6010B**	**03/22-03/24/05**	**G6NT41AH**
		Dilution Factor: 1		Analysis Time..: 23:11	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5080322	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG032005_01

General Chemistry

Lot-Sample #...: E5C210234-017 **Work Order #...:** G6NT4 **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND G	5.0	mg/L	MCAWW 300.0A	03/22/05	5081364
		Dilution Factor: 10		Analysis Time..: 08:31	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5081201	MDL.....: 1.0	
Chloride	**438**	**10.0**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081357**
		Dilution Factor: 10		Analysis Time..: 08:31	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5081197	MDL.....: 3.0	
Nitrate as N	**0.083 B**	**0.10**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081365**
		Dilution Factor: 1		Analysis Time..: 08:15	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5081204	MDL.....: 0.030	
Nitrite as N	ND G	1.0	mg/L	MCAWW 300.0A	03/22/05	5081361
		Dilution Factor: 10		Analysis Time..: 08:31	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5081200	MDL.....: 0.30	
Sulfate	**5.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**03/22/05**	**5081367**
		Dilution Factor: 1		Analysis Time..: 08:15	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5081206	MDL.....: 0.20	
Total Organic Carbon (TOC)	**353**	**10.0**	**mg/L**	**SW846 9060**	**03/24/05**	**5088189**
		Dilution Factor: 10		Analysis Time..: 21:36	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5088093	MDL.....: 4.0	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

B Estimated result. Result is less than RL.

SEVERN TRENT STL

QA/QC

BOE-C6-0011059

QC DATA ASSOCIATION SUMMARY

E5C210234

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WQ	SW846 8260B		5084447	5084296
002	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
003	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
004	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
005	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187

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BOE-C6-0011060

QC DATA ASSOCIATION SUMMARY

E5C210234

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
006	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
007	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
008	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
009	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083247	5083153
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
010	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034

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BOE-C6-0011061

QC DATA ASSOCIATION SUMMARY

E5C210234

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
010	WG	SW846 9060		5083489	5083295
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
011	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083489	5083295
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
012	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5083489	5083295
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
013	WG	MCAWW 300.0A		5080563	5081030
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5088189	5088093
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5080565	5081031
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
014	WG	MCAWW 300.0A		5081357	5081197
	WG	MCAWW 300.0A		5080569	5081035
	WG	MCAWW 300.0A		5080567	5081034
	WG	SW846 9060		5088189	5088093
	WG	MCAWW 300.0A		5080566	5081032
	WG	MCAWW 300.0A		5081361	5081200

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BOE-C6-0011062

QC DATA ASSOCIATION SUMMARY

E5C210234

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
014	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5088355	5088178
015	WG	MCAWW 300.0A		5081357	5081197
	WG	MCAWW 300.0A		5081367	5081206
	WG	MCAWW 300.0A		5081365	5081204
	WG	SW846 9060		5088189	5088093
	WG	MCAWW 300.0A		5081364	5081201
	WG	MCAWW 300.0A		5081361	5081200
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
016	WG	MCAWW 300.0A		5081357	5081197
	WG	MCAWW 300.0A		5081367	5081206
	WG	MCAWW 300.0A		5081365	5081204
	WG	SW846 9060		5088189	5088093
	WG	MCAWW 300.0A		5081364	5081201
	WG	MCAWW 300.0A		5081361	5081200
	WG	SW846 8260B		5094568	5095121
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187
017	WG	MCAWW 300.0A		5081357	5081197
	WG	MCAWW 300.0A		5081367	5081206
	WG	MCAWW 300.0A		5081365	5081204
	WG	SW846 9060		5088189	5088093
	WG	MCAWW 300.0A		5081364	5081201
	WG	MCAWW 300.0A		5081361	5081200
	WG	SW846 8260B		5084447	5084296
	WG	SW846 6010B		5080555	5080322
	WG	SW846 6010B		5082296	5082187

BOE-C6-0011063

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5C210234
MB Lot-Sample #: E5C250000-447

Work Order #...: G64EN1AA
Prep Date.....: 03/24/05
Prep Batch #...: 5084447
Analyst ID.....: 015590

Matrix.....: WATER
Analysis Time..: 23:38
Instrument ID..: MSQ

Analysis Date..: 03/24/05
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5C210234 **Work Order #...:** G64EN1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	94	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5C210234 **Work Order #...:** G7NCJ1AA **Matrix.....:** WATER
MB Lot-Sample #: E5D040000-568

Prep Date.....: 04/01/05 **Analysis Time..:** 08:20
Analysis Date..: 04/01/05 **Prep Batch #...:** 5094568 **Instrument ID..:** MSQ
Dilution Factor: 1

Analyst ID.....: 004648

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

BOE-C6-0011066

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5C210234 **Work Order #...:** G7NCJ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	**0.47 J**	**1.0**	**ug/L**	**SW846 8260B**
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	113	(65 - 135)
Toluene-d8	99	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5C230000-296 **Prep Batch #...:** 5082296						
Manganese	ND	0.015	mg/L	SW846 6010B	03/23-03/24/05	G6TNN1AQ
		Dilution Factor: 1				
		Analysis Time..: 18:35		Analyst ID.....: 021088	Instrument ID..: M01	
Iron	ND	0.10	mg/L	SW846 6010B	03/23-03/24/05	G6TNN1AM
		Dilution Factor: 1				
		Analysis Time..: 18:35		Analyst ID.....: 021088	Instrument ID..: M01	
MB Lot-Sample #: E5C290000-355 **Prep Batch #...:** 5088355						
Manganese	**0.0015 B**	**0.015**	**mg/L**	**SW846 6010B**	**03/29-03/30/05**	**G68J31CH**
		Dilution Factor: 1				
		Analysis Time..: 20:48		Analyst ID.....: 000023	Instrument ID..: M01	
Iron	ND	0.10	mg/L	SW846 6010B	03/29-03/30/05	G68J31CE
		Dilution Factor: 1				
		Analysis Time..: 20:48		Analyst ID.....: 000023	Instrument ID..: M01	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5C210000-555 **Prep Batch #...:** 5080555						
Manganese	ND	0.015	mg/L	SW846 6010B	03/22-03/24/05	G6NXA1AA

Dilution Factor: 1

Analysis Time..: 20:01 Analyst ID.....: 021088 Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G6N9E1AA		MB Lot-Sample #:	E5C210000-566	
	ND	0.50	mg/L	MCAWW 300.0A	03/21/05	5080566
		Dilution Factor: 1				
		Analysis Time..: 12:20		Analyst ID.....: 000022	Instrument ID..: W01	
Bromide		Work Order #: G6QEQ1AA		MB Lot-Sample #:	E5C220000-364	
	ND	0.50	mg/L	MCAWW 300.0A	03/22/05	5081364
		Dilution Factor: 1				
		Analysis Time..: 06:34		Analyst ID.....: 000022	Instrument ID..: W01	
Chloride		Work Order #: G6N861AA		MB Lot-Sample #:	E5C210000-563	
	ND	1.0	mg/L	MCAWW 300.0A	03/21/05	5080563
		Dilution Factor: 1				
		Analysis Time..: 12:20		Analyst ID.....: 000022	Instrument ID..: W01	
Chloride		Work Order #: G6QEL1AA		MB Lot-Sample #:	E5C220000-357	
	ND	1.0	mg/L	MCAWW 300.0A	03/22/05	5081357
		Dilution Factor: 1				
		Analysis Time..: 06:34		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: G6N9G1AA		MB Lot-Sample #:	E5C210000-567	
	ND	0.10	mg/L	MCAWW 300.0A	03/21-03/22/05	5080567
		Dilution Factor: 1				
		Analysis Time..: 12:20		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: G6QEX1AA		MB Lot-Sample #:	E5C220000-365	
	ND	0.10	mg/L	MCAWW 300.0A	03/22/05	5081365
		Dilution Factor: 1				
		Analysis Time..: 06:34		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrite as N		Work Order #: G6N9D1AA		MB Lot-Sample #:	E5C210000-565	
	ND	0.10	mg/L	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 1				
		Analysis Time..: 12:20		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrite as N		Work Order #: G6QEN1AA		MB Lot-Sample #:	E5C220000-361	
	ND	0.10	mg/L	MCAWW 300.0A	03/22/05	5081361
		Dilution Factor: 1				
		Analysis Time..: 06:34		Analyst ID.....: 000022	Instrument ID..: W01	
Sulfate		Work Order #: G6N9H1AA		MB Lot-Sample #:	E5C210000-569	
	ND	1.0	mg/L	MCAWW 300.0A	03/21/05	5080569
		Dilution Factor: 1				
		Analysis Time..: 12:20		Analyst ID.....: 000022	Instrument ID..: W01	

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BOE-C6-0011070

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		Work Order #: G6QE01AA		MB Lot-Sample #:	E5C220000-367	
	ND	1.0	mg/L	MCAWW 300.0A	03/22/05	5081367
		Dilution Factor: 1				
		Analysis Time..: 06:34		Analyst ID.....: 000022	Instrument ID..: W01	
Total Organic Carbon (TOC)		Work Order #: G6XFF1AA		MB Lot-Sample #:	E5C240000-247	
	ND	1.0	mg/L	SW846 9060	03/22/05	5083247
		Dilution Factor: 1				
		Analysis Time..: 16:43		Analyst ID.....: 999995	Instrument ID..: W08	
Total Organic Carbon (TOC)		Work Order #: G60X61AA		MB Lot-Sample #:	E5C240000-489	
	ND	1.0	mg/L	SW846 9060	03/23/05	5083489
		Dilution Factor: 1				
		Analysis Time..: 22:16		Analyst ID.....: 999995	Instrument ID..: W08	
Total Organic Carbon (TOC)		Work Order #: G67061AA		MB Lot-Sample #:	E5C290000-189	
	ND	1.0	mg/L	SW846 9060	03/24/05	5088189
		Dilution Factor: 1				
		Analysis Time..: 21:36		Analyst ID.....: 999995	Instrument ID..: W08	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0011071

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5C210234 **Work Order #...:** G64EN1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5C250000-447
Prep Date.....: 03/24/05 **Analysis Date..:** 03/24/05
Prep Batch #...: 5084447 **Analysis Time..:** 22:30
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**111**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**113**	**(65 - 135)**	**SW846 8260B**
Toluene	**94**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**104**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5C210234 **Work Order #...:** G64EN1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5C250000-447
Prep Date.....: 03/24/05 **Analysis Date..:** 03/24/05
Prep Batch #...: 5084447 **Analysis Time..:** 22:30
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**11.1**	**ug/L**	**111**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.40**	**ug/L**	**94**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**11.3**	**ug/L**	**113**	**SW846 8260B**
Toluene	**10.0**	**9.37**	**ug/L**	**94**	**SW846 8260B**
Trichloroethene	**10.0**	**10.4**	**ug/L**	**104**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
Toluene-d8	95	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5C210234 **Work Order #...:** G7NCJ1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5D040000-568
Prep Date.....: 04/01/05 **Analysis Date..:** 04/01/05
Prep Batch #...: 5C94568 **Analysis Time..:** 07:35
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**100**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**95**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**101**	**(65 - 135)**	**SW846 8260B**
Toluene	**94**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**96**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 130)
1,2-Dichloroethane-d4	115	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5C210234 **Work Order #...:** G7NCJ1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5D040000-568
Prep Date.....: 04/01/05 **Analysis Date..:** 04/01/05
Prep Batch #...: 5094568 **Analysis Time..:** 07:35
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.97**	**ug/L**	**100**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.53**	**ug/L**	**95**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Toluene	**10.0**	**9.39**	**ug/L**	**94**	**SW846 8260B**
Trichloroethene	**10.0**	**9.55**	**ug/L**	**96**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 130)
1,2-Dichloroethane-d4	115	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5C230000-296 **Prep Batch #...:** 5082296					
Manganese	99	(85 - 120)	SW846 6010B	03/23-03/24/05	G6TNN1CH
		Dilution Factor: 1	Analysis Time..: 18:41	Analyst ID.....: 021088	
		Instrument ID..: M01			
Iron	102	(85 - 120)	SW846 6010B	03/23-03/24/05	G6TNN1CE
		Dilution Factor: 1	Analysis Time..: 18:41	Analyst ID.....: 021088	
		Instrument ID..: M01			
LCS Lot-Sample#: E5C290000-355 **Prep Batch #...:** 5088355					
Manganese	93	(85 - 120)	SW846 6010B	03/29-03/30/05	G68J31CP
		Dilution Factor: 1	Analysis Time..: 20:54	Analyst ID.....: 000023	
		Instrument ID..: M01			
Iron	99	(85 - 120)	SW846 6010B	03/29-03/30/05	G68J31CL
		Dilution Factor: 1	Analysis Time..: 20:54	Analyst ID.....: 000023	
		Instrument ID..: M01			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5C230000-296 **Prep Batch #...:** 5082296							
Manganese	0.500	0.493	mg/L	99	SW846 6010B	03/23-03/24/05	G6TNN1CH
			Dilution Factor: 1		Analysis Time..: 18:41	Analyst ID.....: 021088	
			Instrument ID..: M01				
Iron	1.00	1.02	mg/L	102	SW846 6010B	03/23-03/24/05	G6TNN1CE
			Dilution Factor: 1		Analysis Time..: 18:41	Analyst ID.....: 021088	
			Instrument ID..: M01				
LCS Lot-Sample#: E5C290000-355 **Prep Batch #...:** 5088355							
Manganese	0.500	0.467	mg/L	93	SW846 6010B	03/29-03/30/05	G68J31CP
			Dilution Factor: 1		Analysis Time..: 20:54	Analyst ID.....: 000023	
			Instrument ID..: M01				
Iron	1.00	0.986	mg/L	99	SW846 6010B	03/29-03/30/05	G68J31CL
			Dilution Factor: 1		Analysis Time..: 20:54	Analyst ID.....: 000023	
			Instrument ID..: M01				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5C210000-555 **Prep Batch #...:** 5080555					
Manganese	97	(85 - 120)	SW846 6010B	03/22-03/24/05	G6NXA1AC

Dilution Factor: 1 Analysis Time..: 20:07 Analyst ID.....: 021088
Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5C210000-555 **Prep Batch #...:** 5080555							
Manganese	0.500	0.487	mg/L	97	SW846 6010B	03/22-03/24/05	G6NXA1AC

Dilution Factor: 1 Analysis Time..: 20:07 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G6N9E1AC LCS Lot-Sample#: E5C210000-566			
	101	(90 - 110)	MCAWW 300.0A	03/21/05	5080566
		Dilution Factor: 1	Analysis Time..: 12:04	Analyst ID.....: 000022	
		Instrument ID..: W01			
Bromide		Work Order #: G6QEQ1AC LCS Lot-Sample#: E5C220000-364			
	99	(90 - 110)	MCAWW 300.0A	03/22/05	5081364
		Dilution Factor: 1	Analysis Time..: 06:17	Analyst ID.....: 000022	
		Instrument ID..: W01			
Chloride		Work Order #: G6N861AC LCS Lot-Sample#: E5C210000-563			
	102	(90 - 110)	MCAWW 300.0A	03/21/05	5080563
		Dilution Factor: 1	Analysis Time..: 12:04	Analyst ID.....: 000022	
		Instrument ID..: W01			
Chloride		Work Order #: G6QEL1AC LCS Lot-Sample#: E5C220000-357			
	100	(90 - 110)	MCAWW 300.0A	03/22/05	5081357
		Dilution Factor: 1	Analysis Time..: 06:17	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: G6N9G1AC LCS Lot-Sample#: E5C210000-567			
	102	(90 - 110)	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1	Analysis Time..: 12:04	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: G6QEX1AC LCS Lot-Sample#: E5C220000-365			
	101	(90 - 110)	MCAWW 300.0A	03/22/05	5081365
		Dilution Factor: 1	Analysis Time..: 06:17	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrite as N		Work Order #: G6N9D1AC LCS Lot-Sample#: E5C210000-565			
	97	(90 - 110)	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 1	Analysis Time..: 12:04	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrite as N		Work Order #: G6QEN1AC LCS Lot-Sample#: E5C220000-361			
	96	(90 - 110)	MCAWW 300.0A	03/22/05	5081361
		Dilution Factor: 1	Analysis Time..: 06:17	Analyst ID.....: 000022	
		Instrument ID..: W01			
Sulfate		Work Order #: G6N9H1AC LCS Lot-Sample#: E5C210000-569			
	100	(90 - 110)	MCAWW 300.0A	03/21/05	5080569
		Dilution Factor: 1	Analysis Time..: 12:04	Analyst ID.....: 000022	
		Instrument ID..: W01			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		Work Order #: G6QE01AC	LCS Lot-Sample#: E5C220000-367		
	100	(90 - 110)	MCAWW 300.0A	03/22/05	5081367
		Dilution Factor: 1	Analysis Time..: 06:17	Analyst ID.....: 000022	
		Instrument ID..: W01			
Total Organic Carbon (TOC)		Work Order #: G6XFF1AC	LCS Lot-Sample#: E5C240000-247		
	99	(85 - 115)	SW846 9060	03/22/05	5083247
		Dilution Factor: 1	Analysis Time..: 16:43	Analyst ID.....: 999995	
		Instrument ID..: W08			
Total Organic Carbon (TOC)		Work Order #: G60X61AC	LCS Lot-Sample#: E5C240000-489		
	101	(85 - 115)	SW846 9060	03/23/05	5083489
		Dilution Factor: 1	Analysis Time..: 22:16	Analyst ID.....: 999995	
		Instrument ID..: W08			
Total Organic Carbon (TOC)		Work Order #: G67061AC	LCS Lot-Sample#: E5C290000-189		
	104	(85 - 115)	SW846 9060	03/24/05	5088189
		Dilution Factor: 1	Analysis Time..: 21:36	Analyst ID.....: 999995	
		Instrument ID..: W08			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			Work Order #: G6N9E1AC LCS Lot-Sample#: E5C210000-566				
	5.00	5.05	mg/L	101	MCAWW 300.0A	03/21/05	5080566
			Dilution Factor: 1		Analysis Time..: 12:04	Analyst ID.....: 000022	
			Instrument ID..: W01				
Bromide			Work Order #: G6QEQ1AC LCS Lot-Sample#: E5C220000-364				
	5.00	4.96	mg/L	99	MCAWW 300.0A	03/22/05	5081364
			Dilution Factor: 1		Analysis Time..: 06:17	Analyst ID.....: 000022	
			Instrument ID..: W01				
Chloride			Work Order #: G6N861AC LCS Lot-Sample#: E5C210000-563				
	25.0	25.5	mg/L	102	MCAWW 300.0A	03/21/05	5080563
			Dilution Factor: 1		Analysis Time..: 12:04	Analyst ID.....: 000022	
			Instrument ID..: W01				
Chloride			Work Order #: G6QEL1AC LCS Lot-Sample#: E5C220000-357				
	25.0	25.1	mg/L	100	MCAWW 300.0A	03/22/05	5081357
			Dilution Factor: 1		Analysis Time..: 06:17	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: G6N9G1AC LCS Lot-Sample#: E5C210000-567				
	5.00	5.09	mg/L	102	MCAWW 300.0A	03/21/05	5080567
			Dilution Factor: 1		Analysis Time..: 12:04	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: G6QEX1AC LCS Lot-Sample#: E5C220000-365				
	5.00	5.05	mg/L	101	MCAWW 300.0A	03/22/05	5081365
			Dilution Factor: 1		Analysis Time..: 06:17	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrite as N			Work Order #: G6N9D1AC LCS Lot-Sample#: E5C210000-565				
	5.00	4.87	mg/L	97	MCAWW 300.0A	03/21/05	5080565
			Dilution Factor: 1		Analysis Time..: 12:04	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrite as N			Work Order #: G6QEN1AC LCS Lot-Sample#: E5C220000-361				
	5.00	4.78	mg/L	96	MCAWW 300.0A	03/22/05	5081361
			Dilution Factor: 1		Analysis Time..: 06:17	Analyst ID.....: 000022	
			Instrument ID..: W01				
Sulfate			Work Order #: G6N9H1AC LCS Lot-Sample#: E5C210000-569				
	25.0	25.0	mg/L	100	MCAWW 300.0A	03/21/05	5080569
			Dilution Factor: 1		Analysis Time..: 12:04	Analyst ID.....: 000022	
			Instrument ID..: W01				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			Work Order #: G6QE01AC		LCS Lot-Sample#: E5C220000-367		
	25.0	24.9	mg/L	100	MCAWW 300.0A	03/22/05	5081367
			Dilution Factor: 1		Analysis Time..: 06:17	Analyst ID.....: 000022	
			Instrument ID..: W01				
Total Organic Carbon (TOC)			Work Order #: G6XFF1AC		LCS Lot-Sample#: E5C240000-247		
	25.0	24.7	mg/L	99	SW846 9060	03/22/05	5083247
			Dilution Factor: 1		Analysis Time..: 16:43	Analyst ID.....: 999995	
			Instrument ID..: W08				
Total Organic Carbon (TOC)			Work Order #: G60X61AC		LCS Lot-Sample#: E5C240000-489		
	25.0	25.2	mg/L	101	SW846 9060	03/23/05	5083489
			Dilution Factor: 1		Analysis Time..: 22:16	Analyst ID.....: 999995	
			Instrument ID..: W08				
Total Organic Carbon (TOC)			Work Order #: G67061AC		LCS Lot-Sample#: E5C290000-189		
	25.0	26.1	mg/L	104	SW846 9060	03/24/05	5088189
			Dilution Factor: 1		Analysis Time..: 21:36	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5C210234	**Work Order #...:**	G6NP61DW-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5C210234-002		G6NP61DX-MSD		
Date Sampled...:	03/18/05 16:37	**Date Received..:**	03/21/05 11:00	**MS Run #.....:**	5084296
Prep Date.....:	03/24/05	**Analysis Date..:**	03/25/05		
Prep Batch #...:	5084447	**Analysis Time..:**	06:49		
Dilution Factor:	100	**Analyst ID.....:**	015590	**Instrument ID..:**	MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**100**	**(75 - 125)**			**SW846 8260B**
	107	**(75 - 125)**	**6.1**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**123**	**(75 - 125)**			**SW846 8260B**
	106	**(75 - 125)**	**2.3**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**102**	**(65 - 135)**			**SW846 8260B**
	109	**(65 - 135)**	**6.8**	**(0-25)**	**SW846 8260B**
Toluene	**86**	**(75 - 125)**			**SW846 8260B**
	92	**(75 - 125)**	**6.1**	**(0-25)**	**SW846 8260B**
Trichloroethene	**95**	**(75 - 135)**			**SW846 8260B**
	104	**(75 - 135)**	**6.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	101	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
	102	(65 - 135)
Toluene-d8	92	(80 - 130)
	94	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5C210234	**Work Order #...:**	G6NP61DW-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5C210234-002		G6NP61DX-MSD		
Date Sampled...:	03/18/05 16:37	**Date Received..:**	03/21/05 11:00	**MS Run #.....:**	5084296
Prep Date.....:	03/24/05	**Analysis Date..:**	03/25/05		
Prep Batch #...:	5084447	**Analysis Time..:**	06:49		
Dilution Factor:	100	**Analyst ID.....:**	015590	**Instrument ID..:**	MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**38**	**1000**	**1040**	**ug/L**	**100**		**SW846 8260B**
	38	**1000**	**1100**	**ug/L**	**107**	**6.1**	**SW846 8260B**
Chlorobenzene	**6300**	**1000**	**7560**	**ug/L**	**123**		**SW846 8260B**
	6300	**1000**	**7390**	**ug/L**	**106**	**2.3**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**1000**	**1020**	**ug/L**	**102**		**SW846 8260B**
	ND	**1000**	**1090**	**ug/L**	**109**	**6.8**	**SW846 8260B**
Toluene	**ND**	**1000**	**863**	**ug/L**	**86**		**SW846 8260B**
	ND	**1000**	**918**	**ug/L**	**92**	**6.1**	**SW846 8260B**
Trichloroethene	**390**	**1000**	**1350**	**ug/L**	**95**		**SW846 8260B**
	390	**1000**	**1430**	**ug/L**	**104**	**6.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	101	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
	102	(65 - 135)
Toluene-d8	92	(80 - 130)
	94	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5C210234	**Work Order #...:**	G6PW01AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5C220174-004		G6PW01AD-MSD		
Date Sampled...:	03/21/05 11:10	**Date Received..:**	03/21/05 18:28	**MS Run #.....:**	5095121
Prep Date.....:	04/01/05	**Analysis Date..:**	04/01/05		
Prep Batch #...:	5094568	**Analysis Time..:**	17:39		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**122**	**(75 - 125)**			**SW846 8260B**
	122	**(75 - 125)**	**0.0**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**115**	**(75 - 125)**			**SW846 8260B**
	114	**(75 - 125)**	**0.52**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**128**	**(65 - 135)**			**SW846 8260B**
	133	**(65 - 135)**	**3.9**	**(0-25)**	**SW846 8260B**
Toluene	**112**	**(75 - 125)**			**SW846 8260B**
	113	**(75 - 125)**	**0.89**	**(0-25)**	**SW846 8260B**
Trichloroethene	**117**	**(75 - 135)**			**SW846 8260B**
	118	**(75 - 135)**	**1.4**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
	104	(75 - 130)
1,2-Dichloroethane-d4	120	(65 - 135)
	117	(65 - 135)
Toluene-d8	98	(80 - 130)
	97	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5C210234	**Work Order #...:**	G6PW01AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5C220174-004		G6PW01AD-MSD		
Date Sampled...:	03/21/05 11:10	**Date Received..:**	03/21/05 18:28	**MS Run #.....:**	5095121
Prep Date.....:	04/01/05	**Analysis Date..:**	04/01/05		
Prep Batch #...:	5094568	**Analysis Time..:**	17:39		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**12.2**	**ug/L**	**122**		**SW846 8260B**
	ND	**10.0**	**12.2**	**ug/L**	**122**	**0.0**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**11.5**	**ug/L**	**115**		**SW846 8260B**
	ND	**10.0**	**11.4**	**ug/L**	**114**	**0.52**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**12.8**	**ug/L**	**128**		**SW846 8260B**
	ND	**10.0**	**13.3**	**ug/L**	**133**	**3.9**	**SW846 8260B**
Toluene	**ND**	**10.0**	**11.2**	**ug/L**	**112**		**SW846 8260B**
	ND	**10.0**	**11.3**	**ug/L**	**113**	**0.89**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**11.7**	**ug/L**	**117**		**SW846 8260B**
	ND	**10.0**	**11.8**	**ug/L**	**118**	**1.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
	104	(75 - 130)
1,2-Dichloroethane-d4	120	(65 - 135)
	117	(65 - 135)
Toluene-d8	98	(80 - 130)
	97	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER
Date Sampled...: 03/21/05 12:30 **Date Received..:** 03/21/05 16:10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5C210261-002 **Prep Batch #...:** 5082296							
Manganese	95	(85 - 120)			SW846 6010B	03/23-03/24/05	G6N051ED
	95	(85 - 120)	0.59	(0-20)	SW846 6010B	03/23-03/24/05	G6N051EE
		Dilution Factor: 1					
		Analysis Time..: 19:39			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 5082187					
Iron	97	(85 - 120)			SW846 6010B	03/23-03/24/05	G6N051D6
	100	(85 - 120)	2.9	(0-20)	SW846 6010B	03/23-03/24/05	G6N051D7
		Dilution Factor: 1					
		Analysis Time..: 19:39			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 5082187					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER
Date Sampled...: 03/21/05 12:30 **Date Received..:** 03/21/05 16:10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5C210261-002 **Prep Batch #...:** 5082296									
Manganese									
	0.064	0.500	0.538	mg/L	95		SW846 6010B	03/23-03/24/05	G6N051ED
	0.064	0.500	0.542	mg/L	95	0.59	SW846 6010B	03/23-03/24/05	G6N051EE
			Dilution Factor: 1						
			Analysis Time..: 19:39		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5082187						
Iron									
	ND	1.00	0.968	mg/L	97		SW846 6010B	03/23-03/24/05	G6N051D6
	ND	1.00	0.997	mg/L	100	2.9	SW846 6010B	03/23-03/24/05	G6N051D7
			Dilution Factor: 1						
			Analysis Time..: 19:39		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5082187						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER
Date Sampled...: 03/24/05 11:35 **Date Received..:** 03/24/05 19:16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5C250202-001 **Prep Batch #...:** 5088355							
Manganese	118	(85 - 120)			SW846 6010B	03/29-03/30/05	G62P41DL
	115	(85 - 120)	1.9	(0-20)	SW846 6010B	03/29-03/30/05	G62P41DM
		Dilution Factor: 1					
		Analysis Time..: 23:02			Instrument ID..: M01	Analyst ID.....: 000023	
		MS Run #.....: 5088178					
Iron	293 N	(85 - 120)			SW846 6010B	03/29-03/30/05	G62P41DA
	343 N	(85 - 120)	10	(0-20)	SW846 6010B	03/29-03/30/05	G62P41DC
		Dilution Factor: 1					
		Analysis Time..: 23:02			Instrument ID..: M01	Analyst ID.....: 000023	
		MS Run #.....: 5088178					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5C210234 **Matrix.....:** WATER
Date Sampled...: 03/24/05 11:35 **Date Received..:** 03/24/05 19:16

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5C250202-001 **Prep Batch #...:** 5088355									
Manganese									
	0.38	0.500	0.969	mg/L	118		SW846 6010B	03/29-03/30/05	G62P41DL
	0.38	0.500	0.951	mg/L	115	1.9	SW846 6010B	03/29-03/30/05	G62P41DM
			Dilution Factor: 1						
			Analysis Time..: 23:02		Instrument ID..: M01			Analyst ID.....: 000023	
			MS Run #.....: 5088178						
Iron									
	1.6	1.00	4.50 N	mg/L	293		SW846 6010B	03/29-03/30/05	G62P41DA
	1.6	1.00	4.99 N	mg/L	343	10	SW846 6010B	03/29-03/30/05	G62P41DC
			Dilution Factor: 1						
			Analysis Time..: 23:02		Instrument ID..: M01			Analyst ID.....: 000023	
			MS Run #.....: 5088178						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5C210234 **Matrix.....:** WG
Date Sampled...: 03/18/05 16:37 **Date Received..:** 03/21/05 11:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5C210234-002 **Prep Batch #...:** 5080555							
Manganese	104	(85 - 120)			SW846 6010B	03/22-03/24/05	G6NP61AM
	99	(85 - 120)	3.9	(0-20)	SW846 6010B	03/22-03/24/05	G6NP61AN

Dilution Factor: 1
Analysis Time..: 20:58 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5080322

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5C210234 **Matrix.....:** WG
Date Sampled...: 03/18/05 16:37 **Date Received..:** 03/21/05 11:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5C210234-002 **Prep Batch #...:** 5080555									
Manganese									
	0.13	0.500	0.648	mg/L	104		SW846 6010B	03/22-03/24/05	G6NP61AM
	0.13	0.500	0.623	mg/L	99	3.9	SW846 6010B	03/22-03/24/05	G6NP61AN

Dilution Factor: 1
Analysis Time..: 20:58 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5080322

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER
Date Sampled...: 03/22/05 16:45 **Date Received..:** 03/24/05 10:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		WO#: G6N081DH-MS/G6N081DJ-MSD				MS Lot-Sample #: E5C210261-003	
	99	(85 - 115)			SW846 9060	03/22/05	5083244
	90	(85 - 115)	7.6	(0-20)	SW846 9060	03/22/05	5083244

Dilution Factor: 1
Analysis Time..: 21:45 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5083153

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		WO#: G6X961AG-MS/G6X961AH-MSD				MS Lot-Sample #: E5C240287-001	
	102	(85 - 115)			SW846 9060	03/24/05	5087563
	105	(85 - 115)	1.8	(0-20)	SW846 9060	03/24/05	5087563

Dilution Factor: 1
Analysis Time..: 21:36 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5088093

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WATER
Date Sampled...: 03/22/05 16:45 **Date Received..:** 03/24/05 10:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			WO#: G6N081DH-MS/G6N081DJ-MSD				MS Lot-Sample #: E5C210261-003		
	5.9	25.0	30.5	mg/L	99		SW846 9060	03/22/05	5083244
	5.9	25.0	28.3	mg/L	90	7.6	SW846 9060	03/22/05	5083244
			Dilution Factor: 1						
			Analysis Time..: 21:45		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5083153						
Total Organic Carbon (TOC)			WO#: G6X961AG-MS/G6X961AH-MSD				MS Lot-Sample #: E5C240287-001		
	12.3	25.0	37.8	mg/L	102		SW846 9060	03/24/05	5087563
	12.3	25.0	38.5	mg/L	105	1.8	SW846 9060	03/24/05	5087563
			Dilution Factor: 1						
			Analysis Time..: 21:36		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5088093						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: G6NRM1AR-MS/G6NRM1AT-MSD MS Lot-Sample #: E5C210234-012					
	97	(80 - 120)			MCAWW 300.0A	03/21/05	5080566
	101	(80 - 120)	3.8	(0-20)	MCAWW 300.0A	03/21/05	5080566
		Dilution Factor: 1					
		Analysis Time..: 16:04 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5081032					
Bromide		WO#: G6NT41AR-MS/G6NT41AT-MSD MS Lot-Sample #: E5C210234-017					
	88	(80 - 120)			MCAWW 300.0A	03/22/05	5081364
	93	(80 - 120)	6.1	(0-20)	MCAWW 300.0A	03/22/05	5081364
		Dilution Factor: 20					
		Analysis Time..: 08:48 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5081201					
Chloride		WO#: G6NRM1AM-MS/G6NRM1AN-MSD MS Lot-Sample #: E5C210234-012					
	96	(80 - 120)			MCAWW 300.0A	03/21/05	5080563
	100	(80 - 120)	3.4	(0-20)	MCAWW 300.0A	03/21/05	5080563
		Dilution Factor: 1					
		Analysis Time..: 16:04 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5081030					
Chloride		WO#: G6NT41AM-MS/G6NT41AN-MSD MS Lot-Sample #: E5C210234-017					
	85	(80 - 120)			MCAWW 300.0A	03/22/05	5081357
	90	(80 - 120)	1.6	(0-20)	MCAWW 300.0A	03/22/05	5081357
		Dilution Factor: 20					
		Analysis Time..: 08:48 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5081197					
Nitrate as N		WO#: G6NRM1AU-MS/G6NRM1AV-MSD MS Lot-Sample #: E5C210234-012					
	93	(80 - 120)			MCAWW 300.0A	03/21/05	5080567
	97	(80 - 120)	3.6	(0-20)	MCAWW 300.0A	03/21/05	5080567
		Dilution Factor: 1					
		Analysis Time..: 16:04 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5081034					
Nitrate as N		WO#: G6NT41AU-MS/G6NT41AV-MSD MS Lot-Sample #: E5C210234-017					
	93	(80 - 120)			MCAWW 300.0A	03/22/05	5081365
	98	(80 - 120)	5.5	(0-20)	MCAWW 300.0A	03/22/05	5081365
		Dilution Factor: 20					
		Analysis Time..: 08:48 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5081204					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrite as N			WO#: G6NRM1AP-MS/G6NRM1AQ-MSD			MS Lot-Sample #: E5C210234-012	
	97	(80 - 120)			MCAWW 300.0A	03/21/05	5080565
	101	(80 - 120)	4.4	(0-20)	MCAWW 300.0A	03/21/05	5080565
		Dilution Factor: 1					
		Analysis Time..: 16:04			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5081031					
Nitrite as N			WO#: G6NT41AP-MS/G6NT41AQ-MSD			MS Lot-Sample #: E5C210234-017	
	89	(80 - 120)			MCAWW 300.0A	03/22/05	5081361
	95	(80 - 120)	5.7	(0-20)	MCAWW 300.0A	03/22/05	5081361
		Dilution Factor: 20					
		Analysis Time..: 08:48			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5081200					
Sulfate			WO#: G6NRM1AW-MS/G6NRM1AX-MSD			MS Lot-Sample #: E5C210234-012	
	95	(80 - 120)			MCAWW 300.0A	03/21/05	5080569
	99	(80 - 120)	3.2	(0-20)	MCAWW 300.0A	03/21/05	5080569
		Dilution Factor: 1					
		Analysis Time..: 16:04			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5081035					
Sulfate			WO#: G6NT41AW-MS/G6NT41AX-MSD			MS Lot-Sample #: E5C210234-017	
	90	(80 - 120)			MCAWW 300.0A	03/22/05	5081367
	95	(80 - 120)	5.7	(0-20)	MCAWW 300.0A	03/22/05	5081367
		Dilution Factor: 20					
		Analysis Time..: 08:48			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5081206					
Total Organic Carbon (TOC)			WO#: G6NRD1AM-MS/G6NRD1AN-MSD			MS Lot-Sample #: E5C210234-010	
	107	(85 - 115)			SW846 9060	03/23/05	5083489
	109	(85 - 115)	1.3	(0-20)	SW846 9060	03/23/05	5083489
		Dilution Factor: 1					
		Analysis Time..: 22:16			Instrument ID..: W08	Analyst ID.....: 999995	
		MS Run #.....: 5083295					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: G6NRM1AR-MS/G6NRM1AT-MSD MS Lot-Sample #: E5C210234-012						
	ND	2.50	2.42	mg/L	97		MCAWW 300.0A	03/21/05	5080566
	ND	2.50	2.51	mg/L	101	3.8	MCAWW 300.0A	03/21/05	5080566
			Dilution Factor: 1						
			Analysis Time..: 16:04		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081032						
Bromide			WO#: G6NT41AR-MS/G6NT41AT-MSD MS Lot-Sample #: E5C210234-017						
	ND	50.0	43.9	mg/L	88		MCAWW 300.0A	03/22/05	5081364
	ND	50.0	46.6	mg/L	93	6.1	MCAWW 300.0A	03/22/05	5081364
			Dilution Factor: 20						
			Analysis Time..: 08:48		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081201						
Chloride			WO#: G6NRM1AM-MS/G6NRM1AN-MSD MS Lot-Sample #: E5C210234-012						
	3.8	12.5	15.7	mg/L	96		MCAWW 300.0A	03/21/05	5080563
	3.8	12.5	16.3	mg/L	100	3.4	MCAWW 300.0A	03/21/05	5080563
			Dilution Factor: 1						
			Analysis Time..: 16:04		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081030						
Chloride			WO#: G6NT41AM-MS/G6NT41AN-MSD MS Lot-Sample #: E5C210234-017						
	438	250	652	mg/L	85		MCAWW 300.0A	03/22/05	5081357
	438	250	662	mg/L	90	1.6	MCAWW 300.0A	03/22/05	5081357
			Dilution Factor: 20						
			Analysis Time..: 08:48		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081197						
Nitrate as N			WO#: G6NRM1AU-MS/G6NRM1AV-MSD MS Lot-Sample #: E5C210234-012						
	0.44	2.50	2.77	mg/L	93		MCAWW 300.0A	03/21/05	5080567
	0.44	2.50	2.87	mg/L	97	3.6	MCAWW 300.0A	03/21/05	5080567
			Dilution Factor: 1						
			Analysis Time..: 16:04		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081034						
Nitrate as N			WO#: G6NT41AU-MS/G6NT41AV-MSD MS Lot-Sample #: E5C210234-017						
	0.083	50.0	46.3	mg/L	93		MCAWW 300.0A	03/22/05	5081365
	0.083	50.0	49.0	mg/L	98	5.5	MCAWW 300.0A	03/22/05	5081365
			Dilution Factor: 20						
			Analysis Time..: 08:48		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081204						

(Continued on next page)

BOE-C6-0011098

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5C210234 **Matrix.....:** WG
Date Sampled...: 03/20/05 11:00 **Date Received..:** 03/21/05 11:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrite as N			WO#: G6NRM1AP-MS/G6NRM1AQ-MSD				MS Lot-Sample #: E5C210234-012		
	0.080	2.50	2.49	mg/L	97		MCAWW 300.0A	03/21/05	5080565
	0.080	2.50	2.61	mg/L	101	4.4	MCAWW 300.0A	03/21/05	5080565
			Dilution Factor: 1						
			Analysis Time..: 16:04		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081031						
Nitrite as N			WO#: G6NT41AP-MS/G6NT41AQ-MSD				MS Lot-Sample #: E5C210234-017		
	ND	50.0	44.7	mg/L	89		MCAWW 300.0A	03/22/05	5081361
	ND	50.0	47.3	mg/L	95	5.7	MCAWW 300.0A	03/22/05	5081361
			Dilution Factor: 20						
			Analysis Time..: 08:48		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081200						
Sulfate			WO#: G6NRM1AW-MS/G6NRM1AX-MSD				MS Lot-Sample #: E5C210234-012		
	5.5	12.5	17.3	mg/L	95		MCAWW 300.0A	03/21/05	5080569
	5.5	12.5	17.9	mg/L	99	3.2	MCAWW 300.0A	03/21/05	5080569
			Dilution Factor: 1						
			Analysis Time..: 16:04		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081035						
Sulfate			WO#: G6NT41AW-MS/G6NT41AX-MSD				MS Lot-Sample #: E5C210234-017		
	5.3	250	230	mg/L	90		MCAWW 300.0A	03/22/05	5081367
	5.3	250	243	mg/L	95	5.7	MCAWW 300.0A	03/22/05	5081367
			Dilution Factor: 20						
			Analysis Time..: 08:48		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5081206						
Total Organic Carbon (TOC)			WO#: G6NRD1AM-MS/G6NRD1AN-MSD				MS Lot-Sample #: E5C210234-010		
	11.7	25.0	38.4	mg/L	107		SW846 9060	03/23/05	5083489
	11.7	25.0	38.9	mg/L	109	1.3	SW846 9060	03/23/05	5083489
			Dilution Factor: 1						
			Analysis Time..: 22:16		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5083295						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0011099

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

February 25, 2005

STL LOT NUMBER: E5B120159
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

David Poley
ARCADIS, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the five samples received under chain of custody by STL Los Angeles on February 11, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 313.

Sincerely,

Diane Suzuki
Customer Service Manager

CC: Project File

000041

Page 1 of _____ total pages in this report.

BOE-C6-0011100

E5B120159

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

L-4124 (0901)

Client: ARCADIS	Project Manager: David Poley	Date: 2/11/05	Chain of Custody Number: 183261
Address: 400 N. Anaheim Blvd Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 (714) 278-0051	Lab Number: ~~E5B120159~~	Page 1 of 1
City: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez	Lab Contact:	
Project Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260	TCL	Special Instructions/ Conditions of Receipt
TB_ARC021105_01	2/11/05	—		✓						✓			X		
R2MW004_WG021105_01	2/11/05	0712		✓				✓		✓			X	X	
R2B0095_WG021105_01	2/11/05	0756		✓				✓		✓			X	X	
R2MW005_WG021105_01	2/11/05	0853		✓				✓		✓			X	X	
R2B0081_WG021105_01	2/11/05	0942		✓				✓		✓			X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

Relinquished By: [signature]	Date: 2/11/05	Time:	1. Received By: [signature]	Date: 2-11-05	Time: 14:50
Relinquished By: Matt Conrad	Date: 2-11-05	Time: 15:30	2. Received By: Jerry Swart	Date: 2/11/05	Time: 1530
Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2

BOE-C6-0011101

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 2-11-05

LIMS Lot #: E5B120159 Quote #:

Client Name: Arcadis Project: Boeing C-6

Received by: TS Date/Time Received: 2-11-05 / 15:30

Delivered by : ☐ Client ☒ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

****

	Initial / Date
Custody Seal Status Cooler: ☐Intact ☐Broken ☒None	MG 2-11-05
Custody Seal Status Samples: ☐Intact ☐Broken ☒None	
Custody Seal #(s): ☒No Seal #	
Sampler Signature on COC ☐ Yes ☐No ☒N/A	
IR Gun # A Correction Factor -.1 °C IR passed daily verification ☒Yes ☐No	
Temperature - BLANK 25 °C +/- .1 CF = 24 °C	
Temperature – COOLER (___°C ___°C ___°C ___°C) = ___ avg °C +/- ___ CF = ___ °C	
Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒N/A	
Sample Container(s): ☒ STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ___ All within temp criteria ☐ Yes ☐No ☒N/A	
One or more coolers with an anomaly: ☒ Yes – (fill out PRC for each) ☐N/A	
Samples: ☒Intact ☐Broken ☐Other	
pH measured: ☒ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A	
Anomalies: ☐No ☒Yes – complete CUR and Create NCM NCM #	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ N/A	
Labeled by: Labeling checked	

****

Turn Around Time: ☐RUSH–24HR ☐RUSH–48HR ☐RUSH–72HR ☒NORMAL	
Short-Hold Notification: ☐ pH ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☐ >1/2 HT expired	

Outside Analysis(es) (Test/Lab/Date Sent Out) :

NA

MG 2-11-05

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☐N/A MG 2-11-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
-005	1-3	☒ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5b 120159

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2-5												
VOAH/ *	3													
250AGBS	3	1												

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐N/A MG 2-1-05

- **COOLERS**
  - _ Not Received (received COC only)
  - _ Leaking
  - _ Other:
- **CUSTODY SEALS (COOLER(S)**
  - _ None
  - _ Not Intact
  - _ Other
- **CONTAINER(S)**
  - _ None
  - _ Not Intact
  - _ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - _ Cooler Temp(s)
  - _ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - _ Not relinquished by Client; No date/time relinquished
  - _ Incomplete information provided
  - _ Other _ COC not received – notify PM
- **CONTAINERS**
  - _ Leaking
  - _ Broken
  - _ Extra
  - _ Without Labels
  - _ Other:
  - 1 Voa Vials with Bubbles > 6mm
- **LABELS**
  - _ Not the same ID/info as in COC
  - _ Incomplete Information
  - _ Markings/Info illegible
  - _ Torn
- **SAMPLES**
  - _ Samples NOT RECEIVED but listed on COC
  - _ Samples received but NOT LISTED on COC
  - _ Logged based on Label Information
  - _ Logged based on info from other samples on COC
  - _ Logged according to Work Plan
  - _ Logged on HOLD UNTIL FURTHER NOTICE
  - _ Will be noted on COC--Client to send samples with new COC
  - _ Mislabeled as to tests, preservatives, etc.
  - _ Holding time expired – list sample ID and test
  - _ Improper container used
  - _ Not preserved/Improper preservative used
  - _ Improper pH _____ Lab to preserve sample and document
  - _ Insufficient quantities for analysis
  - _ Other

Comments:

_ Corrective Action Implemented:

_ Client Informed: verbally on _____ By: _____ _ In writing on _____ By: _____

_ Sample(s) on hold until: _____ _ Sample(s) processed "as is."

Logged by/Date: MB 02/12/05

PM Review/Date: 02-13-05

SEVERN TRENT STL

Analytical Report

BOE-C6-0011104

EXECUTIVE SUMMARY - Detection Highlights

E5B120159

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW004_WG021105_01 02/11/05 04:12	**002**			
Chloroform	60 J	100	ug/L	SW846 8260B
1,1-Dichloroethene	82 J	100	ug/L	SW846 8260B
Trichloroethene	6200	100	ug/L	SW846 8260B
Total Organic Carbon (TOC)	7.4	1.0	mg/L	SW846 9060
IRZB0095_WG021105_01 02/11/05 04:56	**003**			
Acetone	95 J	250	ug/L	SW846 8260B
2-Butanone	160	120	ug/L	SW846 8260B
Chloroform	13 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	20 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1100	25	ug/L	SW846 8260B
Trichloroethene	440	25	ug/L	SW846 8260B
Total Organic Carbon (TOC)	1580	100	mg/L	SW846 9060
IRZMW005_WG021105_01 02/11/05 05:53	**004**			
Chloroform	35 J	100	ug/L	SW846 8260B
1,1-Dichloroethene	58 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5800	100	ug/L	SW846 8260B
Trichloroethene	540	100	ug/L	SW846 8260B
Total Organic Carbon (TOC)	499	10.0	mg/L	SW846 9060
IRZB0081_WG021105_01 02/11/05 09:42	**005**			
Acetone	390 J	500	ug/L	SW846 8260B
2-Butanone	260	250	ug/L	SW846 8260B
Chloroform	19 J	50	ug/L	SW846 8260B
1,1-Dichloroethene	39 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	690	50	ug/L	SW846 8260B
Methylene chloride	17 J	50	ug/L	SW846 8260B
Trichloroethene	4200	50	ug/L	SW846 8260B
Total Organic Carbon (TOC)	2140	100	mg/L	SW846 9060

METHODS SUMMARY

E5B120159

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5B120159

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G4CWG	001	TB_AR021105_01	02/11/05	
G4CWL	002	IRZMW004_WG021105_01	02/11/05	04:12
G4CWP	003	IRZB0095_WG021105_01	02/11/05	04:56
G4CWW	004	IRZMW005_WG021105_01	02/11/05	05:53
G4CWX	005	IRZB0081_WG021105_01	02/11/05	09:42

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-001 **Work Order #...:** G4CWG1AA **Matrix.....:** WQ
Date Sampled...: 02/11/05 **Date Received..:** 02/11/05 15:30 **MS Run #.....:** 5048328
Prep Date.....: 02/17/05 **Analysis Date..:** 02/17/05
Prep Batch #...: 5048475 **Analysis Time..:** 15:47
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-001 **Work Order #...:** G4CWG1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	106	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-002 **Work Order #...:** G4CWL1AC **Matrix.....:** WG
Date Sampled...: 02/11/05 04:12 **Date Received..:** 02/11/05 15:30 **MS Run #.....:** 5049278
Prep Date.....: 02/17/05 **Analysis Date..:** 02/18/05
Prep Batch #...: 5049411 **Analysis Time..:** 03:44
Dilution Factor: 100
Analyst ID.....: 076574 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	**60 J**	**100**	**ug/L**	**30**
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**82 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-002 **Work Order #...:** G4CWL1AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**6200**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG021105_01

General Chemistry

Lot-Sample #...: E5B120159-002 **Work Order #...:** G4CWL **Matrix.....:** WG
Date Sampled...: 02/11/05 04:12 **Date Received..:** 02/11/05 15:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	7.4	1.0	mg/L	SW846 9060	02/16/05	5048450

Dilution Factor: 1 Analysis Time..: 16:06 Analyst ID.....: 999995
Instrument ID..: W08 MS Run #.....: 5048309 MDL.....: 0.40

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-003 **Work Order #...:** G4CWP1AC **Matrix.....:** WG
Date Sampled...: 02/11/05 04:56 **Date Received..:** 02/11/05 15:30 **MS Run #.....:** 5049278
Prep Date.....: 02/17/05 **Analysis Date..:** 02/18/05
Prep Batch #...: 5049411 **Analysis Time..:** 04:05
Dilution Factor: 25
Analyst ID.....: 076574 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**95 J**	**250**	**ug/L**	**75**
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	**160**	**120**	**ug/L**	**75**
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	**13 J**	**25**	**ug/L**	**7.5**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	ND	25	ug/L	5.0
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**20 J**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**1100**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-003 **Work Order #...:** G4CWP1AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**440**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	86	(65 - 135)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG021105_01

General Chemistry

Lot-Sample #...: E5B120159-003 **Work Order #...:** G4CWP **Matrix.....:** WG
Date Sampled...: 02/11/05 04:56 **Date Received..:** 02/11/05 15:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	**1580**	**100**	**mg/L**	**SW846 9060**	**02/16/05**	**5048450**

Dilution Factor: 100 Analysis Time..: 16:06 Analyst ID.....: 9999959
Instrument ID..: W08 MS Run #.....: 5048309 MDL.....: 40.0

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-004 **Work Order #...:** G4CWW1AC **Matrix.....:** WG
Date Sampled...: 02/11/05 05:53 **Date Received..:** 02/11/05 15:30 **MS Run #.....:** 5049278
Prep Date.....: 02/17/05 **Analysis Date..:** 02/18/05
Prep Batch #...: 5049411 **Analysis Time..:** 04:27
Dilution Factor: 100
Analyst ID.....: 076574 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	**35 J**	**100**	**ug/L**	**30**
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**58 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**5800**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-004 **Work Order #...:** G4CWW1AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**540**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	105	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG021105_01

General Chemistry

Lot-Sample #...: E5B120159-004 **Work Order #...:** G4CWW **Matrix.....:** WG
Date Sampled...: 02/11/05 05:53 **Date Received..:** 02/11/05 15:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	499	10.0	mg/L	SW846 9060	02/16/05	5048450

Dilution Factor: 10 Analysis Time..: 16:06 Analyst ID.....: 9999959
Instrument ID..: W08 MS Run #.....: 5048309 MDL.....: 4.0

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-005 **Work Order #...:** G4CWX1AC **Matrix.....:** WG
Date Sampled...: 02/11/05 09:42 **Date Received..:** 02/11/05 15:30 **MS Run #.....:** 5049278
Prep Date.....: 02/17/05 **Analysis Date..:** 02/18/05
Prep Batch #...: 5049411 **Analysis Time..:** 04:48
Dilution Factor: 50
Analyst ID.....: 076574 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**390 J**	**500**	**ug/L**	**150**
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Bromomethane	ND	100	ug/L	50
2-Butanone	**260**	**250**	**ug/L**	**150**
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	15
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	15
Chloroform	**19 J**	**50**	**ug/L**	**15**
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**39 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**690**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	15
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG021105_01

GC/MS Volatiles

Lot-Sample #...: E5B120159-005 **Work Order #...:** G4CWX1AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	10
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	150
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	**17 J**	**50**	**ug/L**	**15**
4-Methyl-2-pentanone	ND	250	ug/L	150
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	15
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**4200**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	89	(65 - 135)
Toluene-d8	106	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG021105_01

General Chemistry

Lot-Sample #...: E5B120159-005 **Work Order #...:** G4CWX **Matrix.....:** WG
Date Sampled...: 02/11/05 09:42 **Date Received..:** 02/11/05 15:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	**2140**	**100**	**mg/L**	**SW846 9060**	**02/16/05**	**5048450**

Dilution Factor: 100 Analysis Time..: 16:06 Analyst ID.....: 9999959
Instrument ID..: W08 MS Run #.....: 5048309 MDL.....: 40.0

SEVERN TRENT STL

QA/QC

BOE-C6-0011122

QC DATA ASSOCIATION SUMMARY

E5B120159

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WQ	SW846 8260B		5048475	5048328
002	WG	SW846 9060		5048450	5048309
	WG	SW846 8260B		5049411	5049278
003	WG	SW846 9060		5048450	5048309
	WG	SW846 8260B		5049411	5049278
004	WG	SW846 9060		5048450	5048309
	WG	SW846 8260B		5049411	5049278
005	WG	SW846 9060		5048450	5048309
	WG	SW846 8260B		5049411	5049278

BOE-C6-0011123

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5B120159
MB Lot-Sample #: E5B170000-475

Work Order #...: G4NHP1AA
Prep Date.....: 02/17/05
Prep Batch #...: 5048475
Analyst ID.....: 015590

Matrix.....: WATER
Analysis Time..: 10:44
Instrument ID..: MSR

Analysis Date..: 02/17/05
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4NHP1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4QFP1AA **Matrix.....:** WATER
MB Lot-Sample #: E5B180000-411

Prep Date.....: 02/17/05 **Analysis Time..:** 21:31
Analysis Date..: 02/17/05 **Prep Batch #...:** 5049411 **Instrument ID..:** MSR
Dilution Factor: 1

Analyst ID.....: 076574

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4QFP1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5B120159 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		Work Order #: G4NE21AA		MB Lot-Sample #:	E5B170000-450	
	ND	1.0	mg/L	SW846 9060	02/16/05	5048450

Dilution Factor: 1

Analysis Time..: 16:06 Analyst ID.....: 999995 Instrument ID..: W08

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4NHP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B170000-475
Prep Date.....: 02/17/05 **Analysis Date..:** 02/17/05
Prep Batch #...: 5048475 **Analysis Time..:** 09:19
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**105**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**96**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**116**	**(65 - 135)**	**SW846 8260B**
Toluene	**106**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**103**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4NHP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B170000-475
Prep Date.....: 02/17/05 **Analysis Date..:** 02/17/05
Prep Batch #...: 5048475 **Analysis Time..:** 09:19
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.58**	**ug/L**	**96**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**11.6**	**ug/L**	**116**	**SW846 8260B**
Toluene	**10.0**	**10.6**	**ug/L**	**106**	**SW846 8260B**
Trichloroethene	**10.0**	**10.3**	**ug/L**	**103**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0011130

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4QFP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B180000-411
Prep Date.....: 02/17/05 **Analysis Date..:** 02/17/05
Prep Batch #...: 5049411 **Analysis Time..:** 20:47
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 076574

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**97**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**92**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**106**	**(65 - 135)**	**SW846 8260B**
Toluene	**102**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**95**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	81	(65 - 135)
Toluene-d8	110	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4QFP1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B180000-411
Prep Date.....: 02/17/05 **Analysis Date..:** 02/17/05
Prep Batch #...: 5049411 **Analysis Time..:** 20:47
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 076574

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.68**	**ug/L**	**97**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.25**	**ug/L**	**92**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.6**	**ug/L**	**106**	**SW846 8260B**
Toluene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Trichloroethene	**10.0**	**9.50**	**ug/L**	**95**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	81	(65 - 135)
Toluene-d8	110	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5B120159 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		Work Order #: G4NE21AC	LCS Lot-Sample#: E5B170000-450		
	101	(85 - 115)	SW846 9060	02/16/05	5048450

Dilution Factor: 1 Analysis Time..: 16:06 Analyst ID.....: 999995

Instrument ID..: W08

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5B120159 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			Work Order #:	G4NE21AC	LCS Lot-Sample#:	E5B170000-450	
	25.0	25.4	mg/L	101	SW846 9060	02/16/05	5048450
			Dilution Factor: 1		Analysis Time..: 16:06	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5B120159	**Work Order #...:**	G4CXP1AH-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5B120162-004		G4CXP1AJ-MSD		
Date Sampled...:	02/11/05 12:20	**Date Received..:**	02/11/05 16:45	**MS Run #.....:**	5048328
Prep Date.....:	02/17/05	**Analysis Date..:**	02/17/05		
Prep Batch #...:	5048475	**Analysis Time..:**	19:13		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**95**	**(75 - 125)**			**SW846 8260B**
	86	**(75 - 125)**	**9.9**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**89**	**(75 - 125)**			**SW846 8260B**
	82	**(75 - 125)**	**8.7**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**105**	**(65 - 135)**			**SW846 8260B**
	96	**(65 - 135)**	**8.9**	**(0-25)**	**SW846 8260B**
Toluene	**98**	**(75 - 125)**			**SW846 8260B**
	89	**(75 - 125)**	**9.2**	**(0-25)**	**SW846 8260B**
Trichloroethene	**98**	**(75 - 135)**			**SW846 8260B**
	86	**(75 - 135)**	**12**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	83	(65 - 135)
	82	(65 - 135)
Toluene-d8	106	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5B120159 **Work Order #...:** G4CXP1AH-MS **Matrix.....:** WATER
MS Lot-Sample #: E5B120162-004 G4CXP1AJ-MSD
Date Sampled...: 02/11/05 12:20 **Date Received..:** 02/11/05 16:45 **MS Run #.....:** 5048328
Prep Date.....: 02/17/05 **Analysis Date..:** 02/17/05
Prep Batch #...: 5048475 **Analysis Time..:** 19:13
Dilution Factor: 1 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.51**	**ug/L**	**95**		**SW846 8260B**
	ND	**10.0**	**8.61**	**ug/L**	**86**	**9.9**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**8.90**	**ug/L**	**89**		**SW846 8260B**
	ND	**10.0**	**8.16**	**ug/L**	**82**	**8.7**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**9.62**	**ug/L**	**96**	**8.9**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.75**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**8.89**	**ug/L**	**89**	**9.2**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.76**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**8.62**	**ug/L**	**86**	**12**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	83	(65 - 135)
	82	(65 - 135)
Toluene-d8	106	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: E5B120159 **Work Order #...:** G4G2K1DV-MS **Matrix.....:** WATER
MS Lot-Sample #: E5B150375-006 G4G2K1DW-MSD
Date Sampled...: 02/15/05 10:40 **Date Received..:** 02/15/05 16:50 **MS Run #.....:** 5049278
Prep Date.....: 02/17/05 **Analysis Date..:** 02/18/05
Prep Batch #...: 5049411 **Analysis Time..:** 05:10
Dilution Factor: 1 **Analyst ID.....:** 076574 **Instrument ID..:** MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**101**	**(75 - 125)**			**SW846 8260B**
	96	**(75 - 125)**	**5.7**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**96**	**(75 - 125)**			**SW846 8260B**
	90	**(75 - 125)**	**6.8**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**112**	**(65 - 135)**			**SW846 8260B**
	104	**(65 - 135)**	**7.2**	**(0-25)**	**SW846 8260B**
Toluene	**105**	**(75 - 125)**			**SW846 8260B**
	98	**(75 - 125)**	**7.0**	**(0-25)**	**SW846 8260B**
Trichloroethene	**103**	**(75 - 135)**			**SW846 8260B**
	94	**(75 - 135)**	**6.5**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
	98	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
	86	(65 - 135)
Toluene-d8	109	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5B120159	**Work Order #...:**	G4G2K1DV-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5B150375-006		G4G2K1DW-MSD		
Date Sampled...:	02/15/05 10:40	**Date Received..:**	02/15/05 16:50	**MS Run #.....:**	5049278
Prep Date.....:	02/17/05	**Analysis Date..:**	02/18/05		
Prep Batch #...:	5049411	**Analysis Time..:**	05:10		
Dilution Factor:	1	**Analyst ID.....:**	076574	**Instrument ID..:**	MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	ND	**10.0**	**9.58**	**ug/L**	**96**	**5.7**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.63**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**9.00**	**ug/L**	**90**	**6.8**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**11.2**	**ug/L**	**112**		**SW846 8260B**
	ND	**10.0**	**10.4**	**ug/L**	**104**	**7.2**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**9.76**	**ug/L**	**98**	**7.0**	**SW846 8260B**
Trichloroethene	**3.2**	**10.0**	**13.5**	**ug/L**	**103**		**SW846 8260B**
	3.2	**10.0**	**12.6**	**ug/L**	**94**	**6.5**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
	98	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
	86	(65 - 135)
Toluene-d8	109	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: E5B120159 **Matrix.....:** WATER
Date Sampled....: 02/10/05 10:50 **Date Received..:** 02/10/05 18:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		WO#: G37811CF-MS/G37811CG-MSD				MS Lot-Sample #: E5B100405-004	
	100	(85 - 115)			SW846 9060	02/16/05	5048450
	100	(85 - 115)	0.21	(0-20)	SW846 9060	02/16/05	5048450

Dilution Factor: 1
Analysis Time..: 16:06 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5048309

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5B120159 **Matrix.....:** WATER
Date Sampled...: 02/10/05 10:50 **Date Received..:** 02/10/05 18:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			WO#: G37811CF-MS/G37811CG-MSD				MS Lot-Sample #: E5B100405-004		
	2.9	25.0	28.0	mg/L	100		SW846 9060	02/16/05	5048450
	2.9	25.0	28.0	mg/L	100	0.21	SW846 9060	02/16/05	5048450

Dilution Factor: 1
Analysis Time..: 16:06 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5048309

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

February 10, 2005

STL LOT NUMBER: E5A290137
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

David Poley
ARCADIS, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the six samples received under chain of custody by STL Los Angeles on January 28, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 313.

Sincerely,

Diane Suzuki
Customer Service Manager

CC: Project File

000052

Page 1 of _____ total pages in this report.

BOE-C6-0011141

LOT NUMBER E5A290137

Nonconformance 05-11429

Affected Samples:
E5A290137 (2): CMW026_WG012805_01
E5A290137 (3): IRZB0095_WG012805_01
E5A290137 (4): IRZCMW003_WG012805_01
E5A290137 (5): IRZMW005_WG012805_01
E5A290137 (6): IRZB0081_WG012805_01

Affected Methods:
6010B Metals

Case Narrative:
Samples were received unfiltered and unpreserved for Dissolved Metals Analysis. Per client request, the samples were filtered and preserved to a pH<2 with Nitric Acid prior to metals digestion. Pre-preserved bottles with Nitric Acid were used as containers.

E5A290137

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

L-4124 (0901)

Client: ARCADIS	Project Manager: David Poley	Date: 1/28/05	Chain of Custody Number: 183004
Address: 1400 N. Harbor Blvd. Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 FAX (714) 278-0051	Lab Number: ~~E5A~~ 290137	Page 1 of 1
City: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez; Lab Contact:		
Project Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260	TOC	Dissolved Mn	Perchlorate, Sulfate	Nitrate							Special Instructions/ Conditions of Receipt
B_AR012805_01	1/28/05	—		✓							✓				X											
MW026_WG012805_01	1/28/05	0922		✓				✓	✓		✓				X	X	X	X	X							
RZB0095_WG012805_01	1/28/05	1207		✓				✓	✓		✓				X	X	X	X	X							
RZCMW003_WG012805_01	1/28/05	1319		✓				✓	✓		✓				X	X	X	X	X							
RZMW005_WG012805_01	1/28/05	1432		✓				✓	✓		✓				X	X	X	X	X							
RZB0081_WG012805_01	1/28/05	1531		✓				✓	✓		✓				X	X	X	X	X							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD.

QC Requirements (Specify):

Relinquished By	Date 1/28/05	Time 1805	1. Received By	Date 1/28/05	Time 1805
Relinquished By	Date	Time	2. Received By	Date	Time
Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 4.0 - 0.2 - 3.8°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

BOE-C6-0011143

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 1-28-05

LIMS Lot #: E5A 290137 Quote #:

Client Name: Arcadis Project: Boeing C-6

Received by: KF Date/Time Received: 1-28-05 / 18:05

Delivered by : ☒ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

****

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None	ML 1-28-05
Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None	
Custody Seal #(s): ☒ No Seal #	
Sampler Signature on COC ☐ Yes ☐ No ☒ N/A	
IR Gun # A Correction Factor -.2 °C IR passed daily verification ☒ Yes ☐ No	
Temperature - BLANK 4.0 °C +/- .2 CF = 3.8 °C	
Temperature – COOLER (____ °C ____ °C ____ °C ____ °C) = ____ avg °C +/- ____ CF = ____ °C	
Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒ N/A	
Sample Container(s): ☒ STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐ No ☒ N/A	ML 1-28-05
One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☐ N/A	
Samples: ☒ Intact ☐ Broken ☐ Other	ML 1-28-05
pH measured: ☒ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A	
Anomalies: ☒ No ☐ Yes – complete CUR and Create NCM NCM #	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☐ N/A	
Labeled by: A. BUE 1/29/05 (P) Labeling checked	

****

Turn Around Time: ☐ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☒ NORMAL	ML 1-28-05
Short-Hold Notification: ☐ pH ☒ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired	ML 1-28-05

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____

_____

_____

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☐ N/A

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5A-290137 **PROJECT RECEIPT CHECKLIST Cont'd**

Fraction	1	2-7 6												
VOAH/ *	3	3												
LPB		1												
500PB		1												
250AGBS		1												2

* VOA with headspace/bubbles < 6mm
H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

[X] N/A AB 01/29/05

- **COOLERS**
  - Not Received (received COC only)
  - Leaking
  - Other:
- **CUSTODY SEALS (COOLER(S)**
  - None
  - Not Intact
  - Other
- **CONTAINER(S)**
  - None
  - Not Intact
  - Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - Cooler Temp(s)
  - Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - Not relinquished by Client; No date/time relinquished
  - Incomplete information provided
  - Other
  - COC not received – notify PM
- **CONTAINERS**
  - Leaking
  - Voa Vials with Bubbles > 6mm
  - Broken
  - Extra
  - Without Labels
  - Other:
- **LABELS**
  - Not the same ID/info as in COC
  - Incomplete Information
  - Markings/Info illegible
  - Torn
- **SAMPLES**
  - Samples NOT RECEIVED but listed on COC
  - Samples received but NOT LISTED on COC
  - Logged based on Label Information
  - Logged based on info from other samples on COC
  - Logged according to Work Plan
  - Logged on HOLD UNTIL FURTHER NOTICE
  - Will be noted on COC--Client to send samples with new COC
  - Mislabeled as to tests, preservatives, etc.
  - Holding time expired – list sample ID and test
  - Improper container used
  - Not preserved/Improper preservative used
  - Improper pH _____ Lab to preserve sample and document
  - Insufficient quantities for analysis
  - Other

Comments:

- Corrective Action Implemented:
- Client Informed: verbally on _____ By: _____ In writing on _____ By: _____
- Sample(s) on hold until: _____ Sample(s) processed "as is."

Logged by/Date: AB 01/29/05 **PM Review/Date:** [signature] 01-31-05

STL

Analytical Report

BOE-C6-0011146

EXECUTIVE SUMMARY - Detection Highlights

E5A290137

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TB_AR012805_01 01/28/05 001				
1,2-Dichloroethane	0.52 J	1.0	ug/L	SW846 8260B
CMW026_WG012805_01 01/28/05 09:22 002				
Manganese - DISSOLVED	0.57	0.015	mg/L	SW846 6010B
Acetone	11 J	25	ug/L	SW846 8260B
2-Butanone	14	12	ug/L	SW846 8260B
1,1-Dichloroethane	0.71 J	2.5	ug/L	SW846 8260B
1,2-Dichloroethane	1.0 J	2.5	ug/L	SW846 8260B
1,1-Dichloroethene	16	2.5	ug/L	SW846 8260B
cis-1,2-Dichloroethene	160	2.5	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.2 J	2.5	ug/L	SW846 8260B
Trichloroethene	30	2.5	ug/L	SW846 8260B
Sulfate	2.3	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	22.4	1.0	mg/L	SW846 9060
Bromide	0.14 B	0.50	mg/L	MCAWW 300.0A
IRZB0095_WG012805_01 01/28/05 12:07 003				
Manganese - DISSOLVED	7.1	0.015	mg/L	SW846 6010B
Acetone	38 J	120	ug/L	SW846 8260B
2-Butanone	130	62	ug/L	SW846 8260B
Chloroform	12	12	ug/L	SW846 8260B
1,1-Dichloroethene	15	12	ug/L	SW846 8260B
cis-1,2-Dichloroethene	930	12	ug/L	SW846 8260B
Tetrachloroethene	5.7 J	12	ug/L	SW846 8260B
Trichloroethene	450	12	ug/L	SW846 8260B
Sulfate	20.6	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	2060	100	mg/L	SW846 9060
IRZCMW003_WG012805_01 01/28/05 13:19 004				
Manganese - DISSOLVED	0.024	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	49 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	44 J	100	ug/L	SW846 8260B
Trichloroethene	5000	100	ug/L	SW846 8260B
Sulfate	52.3	5.0	mg/L	MCAWW 300.0A
Nitrate as N	2.1	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	2.3	1.0	mg/L	SW846 9060
Bromide	0.38 B	0.50	mg/L	MCAWW 300.0A

(Continued on next page)

BOE-C6-0011147

EXECUTIVE SUMMARY - Detection Highlights

E5A290137

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW005_WG012805_01 01/28/05 14:32	**005**			
Manganese - DISSOLVED	3.5	0.015	mg/L	SW846 6010B
Chloroform	40 J	120	ug/L	SW846 8260B
1,1-Dichloroethene	52 J	120	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5500	120	ug/L	SW846 8260B
Trichloroethene	880	120	ug/L	SW846 8260B
Sulfate	15.7	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	267	10.0	mg/L	SW846 9060
IRZB0081_WG012805_01 01/28/05 15:31	**006**			
Manganese - DISSOLVED	7.0	0.015	mg/L	SW846 6010B
Acetone	320 J	1000	ug/L	SW846 8260B
2-Butanone	400 J	500	ug/L	SW846 8260B
1,1-Dichloroethene	34 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	260	100	ug/L	SW846 8260B
Trichloroethene	4600	100	ug/L	SW846 8260B
Sulfate	38.1	20.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3750	100	mg/L	SW846 9060

METHODS SUMMARY

E5A290137

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Bromide	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5A290137

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G3F40	001	TB_AR012805_01	01/28/05	
G3F5Q	002	CMW026_WG012805_01	01/28/05	09:22
G3F50	003	IRZB0095_WG012805_01	01/28/05	12:07
G3F52	004	IRZCMW003_WG012805_01	01/28/05	13:19
G3F57	005	IRZMW005_WG012805_01	01/28/05	14:32
G3F6E	006	IRZB0081_WG012805_01	01/28/05	15:31

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

BOE-C6-0011150

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-001 **Work Order #...:** G3F401AA **Matrix.....:** WQ
Date Sampled...: 01/28/05 **Date Received..:** 01/28/05 18:05 **MS Run #.....:** 5040273
Prep Date.....: 02/08/05 **Analysis Date..:** 02/08/05
Prep Batch #...: 5040487 **Analysis Time..:** 18:59
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodiflucromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	**0.52 J**	**1.0**	**ug/L**	**0.40**
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-001 **Work Order #...:** G3F401AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	112	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	118	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-002 **Work Order #...:** G3F5Q1AF **Matrix.....:** WG
Date Sampled...: 01/28/05 09:22 **Date Received..:** 01/28/05 18:05 **MS Run #.....:** 5040273
Prep Date.....: 02/08/05 **Analysis Date..:** 02/08/05
Prep Batch #...: 5040487 **Analysis Time..:** 22:53
Dilution Factor: 2.5
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**11 J**	**25**	**ug/L**	**7.5**
Benzene	ND	2.5	ug/L	0.75
Bromobenzene	ND	2.5	ug/L	0.75
Bromochloromethane	ND	2.5	ug/L	0.75
Bromoform	ND	2.5	ug/L	0.75
Bromomethane	ND	5.0	ug/L	2.5
2-Butanone	**14**	**12**	**ug/L**	**7.5**
n-Butylbenzene	ND	2.5	ug/L	0.75
sec-Butylbenzene	ND	2.5	ug/L	0.75
tert-Butylbenzene	ND	2.5	ug/L	0.50
Carbon disulfide	ND	2.5	ug/L	0.75
Carbon tetrachloride	ND	2.5	ug/L	0.75
Chlorobenzene	ND	2.5	ug/L	0.75
Dibromochloromethane	ND	2.5	ug/L	1.0
Bromodichloromethane	ND	2.5	ug/L	0.75
Chloroethane	ND	5.0	ug/L	0.75
Chloroform	ND	2.5	ug/L	0.75
Chloromethane	ND	5.0	ug/L	0.75
2-Chlorotoluene	ND	2.5	ug/L	0.75
4-Chlorotoluene	ND	2.5	ug/L	0.75
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	1.8
1,2-Dibromoethane (EDB)	ND	2.5	ug/L	0.75
Dibromomethane	ND	2.5	ug/L	1.0
1,2-Dichlorobenzene	ND	2.5	ug/L	0.75
1,3-Dichlorobenzene	ND	2.5	ug/L	0.75
1,4-Dichlorobenzene	ND	2.5	ug/L	0.75
Dichlorodifluoromethane	ND	5.0	ug/L	1.0
1,1-Dichloroethane	**0.71 J**	**2.5**	**ug/L**	**0.50**
1,2-Dichloroethane	**1.0 J**	**2.5**	**ug/L**	**1.0**
1,1-Dichloroethene	**16**	**2.5**	**ug/L**	**0.75**
cis-1,2-Dichloroethene	**160**	**2.5**	**ug/L**	**0.75**
trans-1,2-Dichloroethene	**1.2 J**	**2.5**	**ug/L**	**0.75**
1,2-Dichloropropane	ND	2.5	ug/L	0.75
1,3-Dichloropropane	ND	2.5	ug/L	1.0
2,2-Dichloropropane	ND	2.5	ug/L	0.75
1,1-Dichloropropene	ND	2.5	ug/L	0.75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-002 **Work Order #...:** G3F5Q1AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	2.5	ug/L	0.75
trans-1,3-Dichloropropene	ND	2.5	ug/L	1.2
Ethylbenzene	ND	2.5	ug/L	0.50
Hexachlorobutadiene	ND	2.5	ug/L	0.75
2-Hexanone	ND	12	ug/L	7.5
Isopropylbenzene	ND	2.5	ug/L	0.75
p-Isopropyltoluene	ND	2.5	ug/L	0.75
Methylene chloride	ND	2.5	ug/L	0.75
4-Methyl-2-pentanone	ND	12	ug/L	7.5
Methyl tert-butyl ether	ND	2.5	ug/L	1.2
Naphthalene	ND	2.5	ug/L	1.2
n-Propylbenzene	ND	2.5	ug/L	1.0
Styrene	ND	2.5	ug/L	0.75
1,1,1,2-Tetrachloroethane	ND	2.5	ug/L	0.75
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	1.0
Tetrachloroethene	ND	2.5	ug/L	0.75
Toluene	ND	2.5	ug/L	0.75
1,2,3-Trichlorobenzene	ND	2.5	ug/L	1.0
1,2,4-Trichloro-benzene	ND	2.5	ug/L	0.75
1,1,1-Trichloroethane	ND	2.5	ug/L	0.50
1,1,2-Trichloroethane	ND	2.5	ug/L	0.75
Trichloroethene	**30**	**2.5**	**ug/L**	**0.75**
Trichlorofluoromethane	ND	5.0	ug/L	0.75
1,2,3-Trichloropropane	ND	2.5	ug/L	1.0
1,1,2-Trichlorotrifluoro-ethane	ND	2.5	ug/L	1.0
1,2,4-Trimethylbenzene	ND	2.5	ug/L	0.75
1,3,5-Trimethylbenzene	ND	2.5	ug/L	0.50
Vinyl chloride	ND	2.5	ug/L	0.75
m-Xylene & p-Xylene	ND	2.5	ug/L	1.2
o-Xylene	ND	2.5	ug/L	0.50
Xylenes (total)	ND	2.5	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(75 - 130)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	120	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG012805_01

DISSOLVED Metals

Lot-Sample #...: E5A290137-002 **Matrix.....:** WG
Date Sampled...: 01/28/05 09:22 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**0.57**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3F5Q1AE**
		Dilution Factor: 1		Analysis Time..: 12:33	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG012805_01

General Chemistry

Lot-Sample #...: E5A290137-002 **Work Order #...:** G3F5Q **Matrix.....:** WG
Date Sampled...: 01/28/05 09:22 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.14 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5029072**
	Dilution Factor: 1			Analysis Time..: 03:53	Analyst ID.....: 000022	
	Instrument ID..: W01			MS Run #.....: 5029048	MDL.....: 0.10	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	01/28-01/29/05	5028452
	Dilution Factor: 1			Analysis Time..: 03:53	Analyst ID.....: 0000228	
	Instrument ID..: W01			MS Run #.....: 5029055	MDL.....: 0.030	
Sulfate	**2.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5027344**
	Dilution Factor: 1			Analysis Time..: 03:53	Analyst ID.....: 0000225	
	Instrument ID..: W01			MS Run #.....: 5028247	MDL.....: 0.20	
Total Organic Carbon (TOC)	**22.4**	**1.0**	**mg/L**	**SW846 9060**	**02/04/05**	**5035514**
	Dilution Factor: 1			Analysis Time..: 19:09	Analyst ID.....: 9999957	
	Instrument ID..: W08			MS Run #.....: 5039111	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-003 **Work Order #...:** G3F501AF **Matrix.....:** WG
Date Sampled...: 01/28/05 12:07 **Date Received..:** 01/28/05 18:05 **MS Run #.....:** 5040273
Prep Date.....: 02/08/05 **Analysis Date..:** 02/08/05
Prep Batch #...: 5040487 **Analysis Time..:** 23:14
Dilution Factor: 12.5
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**38 J**	**120**	**ug/L**	**38**
Benzene	ND	12	ug/L	3.8
Bromobenzene	ND	12	ug/L	3.8
Bromochloromethane	ND	12	ug/L	3.8
Bromoform	ND	12	ug/L	3.8
Bromomethane	ND	25	ug/L	12
2-Butanone	**130**	**62**	**ug/L**	**38**
n-Butylbenzene	ND	12	ug/L	3.8
sec-Butylbenzene	ND	12	ug/L	3.8
tert-Butylbenzene	ND	12	ug/L	2.5
Carbon disulfide	ND	12	ug/L	3.8
Carbon tetrachloride	ND	12	ug/L	3.8
Chlorobenzene	ND	12	ug/L	3.8
Dibromochloromethane	ND	12	ug/L	5.0
Bromodichloromethane	ND	12	ug/L	3.8
Chloroethane	ND	25	ug/L	3.8
Chloroform	**12**	**12**	**ug/L**	**3.8**
Chloromethane	ND	25	ug/L	3.8
2-Chlorotoluene	ND	12	ug/L	3.8
4-Chlorotoluene	ND	12	ug/L	3.8
1,2-Dibromo-3-chloro-propane	ND	25	ug/L	8.8
1,2-Dibromoethane (EDB)	ND	12	ug/L	3.8
Dibromomethane	ND	12	ug/L	5.0
1,2-Dichlorobenzene	ND	12	ug/L	3.8
1,3-Dichlorobenzene	ND	12	ug/L	3.8
1,4-Dichlorobenzene	ND	12	ug/L	3.8
Dichlorodifluoromethane	ND	25	ug/L	5.0
1,1-Dichloroethane	ND	12	ug/L	2.5
1,2-Dichloroethane	ND	12	ug/L	5.0
1,1-Dichloroethene	**15**	**12**	**ug/L**	**3.8**
cis-1,2-Dichloroethene	**930**	**12**	**ug/L**	**3.8**
trans-1,2-Dichloroethene	ND	12	ug/L	3.8
1,2-Dichloropropane	ND	12	ug/L	3.8
1,3-Dichloropropane	ND	12	ug/L	5.0
2,2-Dichloropropane	ND	12	ug/L	3.8
1,1-Dichloropropene	ND	12	ug/L	3.8

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-003 **Work Order #...:** G3F501AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	12	ug/L	3.8
trans-1,3-Dichloropropene	ND	12	ug/L	6.2
Ethylbenzene	ND	12	ug/L	2.5
Hexachlorobutadiene	ND	12	ug/L	3.8
2-Hexanone	ND	62	ug/L	38
Isopropylbenzene	ND	12	ug/L	3.8
p-Isopropyltoluene	ND	12	ug/L	3.8
Methylene chloride	ND	12	ug/L	3.8
4-Methyl-2-pentanone	ND	62	ug/L	38
Methyl tert-butyl ether	ND	12	ug/L	6.2
Naphthalene	ND	12	ug/L	6.2
n-Propylbenzene	ND	12	ug/L	5.0
Styrene	ND	12	ug/L	3.8
1,1,1,2-Tetrachloroethane	ND	12	ug/L	3.8
1,1,2,2-Tetrachloroethane	ND	12	ug/L	5.0
Tetrachloroethene	**5.7 J**	**12**	**ug/L**	**3.8**
Toluene	ND	12	ug/L	3.8
1,2,3-Trichlorobenzene	ND	12	ug/L	5.0
1,2,4-Trichloro-benzene	ND	12	ug/L	3.8
1,1,1-Trichloroethane	ND	12	ug/L	2.5
1,1,2-Trichloroethane	ND	12	ug/L	3.8
Trichloroethene	**450**	**12**	**ug/L**	**3.8**
Trichlorofluoromethane	ND	25	ug/L	3.8
1,2,3-Trichloropropane	ND	12	ug/L	5.0
1,1,2-Trichlorotrifluoro-ethane	ND	12	ug/L	5.0
1,2,4-Trimethylbenzene	ND	12	ug/L	3.8
1,3,5-Trimethylbenzene	ND	12	ug/L	2.5
Vinyl chloride	ND	12	ug/L	3.8
m-Xylene & p-Xylene	ND	12	ug/L	6.2
o-Xylene	ND	12	ug/L	2.5
Xylenes (total)	ND	12	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(75 - 130)
1,2-Dichloroethane-d4	104	(65 - 135)
Toluene-d8	120	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG012805_01

DISSOLVED Metals

Lot-Sample #...: E5A290137-003 **Matrix.....:** WG
Date Sampled...: 01/28/05 12:07 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**7.1**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3F501AE**
		Dilution Factor: 1		Analysis Time..: 12:41	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG012805_01

General Chemistry

Lot-Sample #...: E5A290137-003 **Work Order #...:** G3F50 **Matrix.....:** WG
Date Sampled...: 01/28/05 12:07 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND G	5.0	mg/L	MCAWW 300.0A	02/02/05	5033468
		Dilution Factor: 10		Analysis Time..: 15:14	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5033330	MDL.....: 1.0	
Nitrate as N	ND G	0.50	mg/L	MCAWW 300.0A	01/28-01/29/05	5028452
		Dilution Factor: 5		Analysis Time..: 05:00	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5029055	MDL.....: 0.15	
Sulfate	**20.6**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5027344**
		Dilution Factor: 5		Analysis Time..: 05:00	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5028247	MDL.....: 1.0	
Total Organic Carbon (TOC)	**2060**	**100**	**mg/L**	**SW846 9060**	**02/04/05**	**5035514**
		Dilution Factor: 100		Analysis Time..: 19:09	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5039111	MDL.....: 40.0	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-004 **Work Order #...:** G3F521AF **Matrix.....:** WG
Date Sampled...: 01/28/05 13:19 **Date Received..:** 01/28/05 18:05 **MS Run #.....:** 5040273
Prep Date.....: 02/08/05 **Analysis Date..:** 02/08/05
Prep Batch #...: 5040487 **Analysis Time..:** 23:35
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**49 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**44 J**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

(Continued on next page)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-004 **Work Order #...:** G3F521AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**5000**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	122	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG012805_01

DISSOLVED Metals

Lot-Sample #...: E5A290137-004 **Matrix.....:** WG
Date Sampled...: 01/28/05 13:19 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**0.024**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3F521AE**
		Dilution Factor: 1		Analysis Time..: 12:48	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG012805_01

General Chemistry

Lot-Sample #...: E5A290137-004 **Work Order #...:** G3F52 **Matrix.....:** WG
Date Sampled...: 01/28/05 13:19 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.38 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5029072**
		Dilution Factor: 1		Analysis Time..: 02:46	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5029048	MDL.....: 0.10	
Nitrate as N	**2.1**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5028452**
		Dilution Factor: 1		Analysis Time..: 02:46	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5029055	MDL.....: 0.030	
Sulfate	**52.3**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5027344**
		Dilution Factor: 5		Analysis Time..: 03:03	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5028247	MDL.....: 1.0	
Total Organic Carbon (TOC)	**2.3**	**1.0**	**mg/L**	**SW846 9060**	**02/04/05**	**5035514**
		Dilution Factor: 1		Analysis Time..: 19:09	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5039111	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-005 **Work Order #...:** G3F571AF **Matrix.....:** WG
Date Sampled...: 01/28/05 14:32 **Date Received..:** 01/28/05 18:05 **MS Run #.....:** 5040273
Prep Date.....: 02/08/05 **Analysis Date..:** 02/08/05
Prep Batch #...: 5040487 **Analysis Time..:** 23:58
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	**40 J**	**120**	**ug/L**	**38**
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodiflucromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**52 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	**5500**	**120**	**ug/L**	**38**
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-005 **Work Order #...:** G3F571AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**880**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	121	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG012805_01

DISSOLVED Metals

Lot-Sample #...: E5A290137-005 **Matrix.....:** WG
Date Sampled...: 01/28/05 14:32 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	3.5	0.015	mg/L	SW846 6010B	01/31-02/01/05	G3F571AE
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG012805_01

General Chemistry

Lot-Sample #...: E5A290137-005 **Work Order #...:** G3F57 **Matrix.....:** WG
Date Sampled...: 01/28/05 14:32 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND G	25.0	mg/L	MCAWW 300.0A	02/02/05	5033468
		Dilution Factor: 50		Analysis Time..: 15:48	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5033330	MDL.....: 5.0	
Nitrate as N	ND G	0.50	mg/L	MCAWW 300.0A	01/28-01/29/05	5028452
		Dilution Factor: 5		Analysis Time..: 06:07	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5029055	MDL.....: 0.15	
Sulfate	**15.7**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5027344**
		Dilution Factor: 5		Analysis Time..: 06:07	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5028247	MDL.....: 1.0	
Total Organic Carbon (TOC)	**267**	**10.0**	**mg/L**	**SW846 9060**	**02/04/05**	**5035514**
		Dilution Factor: 10		Analysis Time..: 19:09	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5039111	MDL.....: 4.0	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-006 **Work Order #...:** G3F6E1AF **Matrix.....:** WG
Date Sampled...: 01/28/05 15:31 **Date Received..:** 01/28/05 18:05 **MS Run #.....:** 5040273
Prep Date.....: 02/08/05 **Analysis Date..:** 02/09/05
Prep Batch #...: 5040487 **Analysis Time..:** 00:22
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**320 J**	**1000**	**ug/L**	**300**
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	**400 J**	**500**	**ug/L**	**300**
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**34 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**260**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG012805_01

GC/MS Volatiles

Lot-Sample #...: E5A290137-006 **Work Order #...:** G3F6E1AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**4600**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	123	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG012805_01

DISSOLVED Metals

Lot-Sample #...: E5A290137-006 **Matrix.....:** WG
Date Sampled...: 01/28/05 15:31 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	7.0	0.015	mg/L	SW846 6010B	01/31-02/01/05	G3F6E1AE
		Dilution Factor: 1		Analysis Time..: 13:16	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG012805_01

General Chemistry

Lot-Sample #...: E5A290137-006 **Work Order #...:** G3F6E **Matrix.....:** WG
Date Sampled...: 01/28/05 15:31 **Date Received..:** 01/28/05 18:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND G	2.5	mg/L	MCAWW 300.0A	02/02/05	5033468
		Dilution Factor: 5		Analysis Time..: 16:21	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5033330	MDL.....: 0.50	
Nitrate as N	ND G	2.0	mg/L	MCAWW 300.0A	01/28-01/29/05	5028452
		Dilution Factor: 20		Analysis Time..: 05:34	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5029055	MDL.....: 0.60	
Sulfate	**38.1**	**20.0**	**mg/L**	**MCAWW 300.0A**	**01/28-01/29/05**	**5027344**
		Dilution Factor: 20		Analysis Time..: 05:34	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5028247	MDL.....: 4.0	
Total Organic Carbon (TOC)	**3750**	**100**	**mg/L**	**SW846 9060**	**02/04/05**	**5035514**
		Dilution Factor: 100		Analysis Time..: 19:09	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5039111	MDL.....: 40.0	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

STL

QA/QC

BOE-C6-0011173

QC DATA ASSOCIATION SUMMARY

E5A290137

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WQ	SW846 8260B		5040487	5040273
002	WG	MCAWW 300.0A		5027344	5028247
	WG	MCAWW 300.0A		5028452	5029055
	WG	SW846 9060		5035514	5039111
	WG	MCAWW 300.0A		5029072	5029048
	WG	SW846 8260B		5040487	5040273
	WG	SW846 6010B		5028415	5028236
003	WG	MCAWW 300.0A		5027344	5028247
	WG	MCAWW 300.0A		5028452	5029055
	WG	SW846 9060		5035514	5039111
	WG	MCAWW 300.0A		5033468	5033330
	WG	SW846 8260B		5040487	5040273
	WG	SW846 6010B		5028415	5028236
004	WG	MCAWW 300.0A		5027344	5028247
	WG	MCAWW 300.0A		5028452	5029055
	WG	SW846 9060		5035514	5039111
	WG	MCAWW 300.0A		5029072	5029048
	WG	SW846 8260B		5040487	5040273
	WG	SW846 6010B		5028415	5028236
005	WG	MCAWW 300.0A		5027344	5028247
	WG	MCAWW 300.0A		5028452	5029055
	WG	SW846 9060		5035514	5039111
	WG	MCAWW 300.0A		5033468	5033330
	WG	SW846 8260B		5040487	5040273
	WG	SW846 6010B		5028415	5028236
006	WG	MCAWW 300.0A		5027344	5028247
	WG	MCAWW 300.0A		5028452	5029055
	WG	SW846 9060		5035514	5039111
	WG	MCAWW 300.0A		5033468	5033330
	WG	SW846 8260B		5040487	5040273
	WG	SW846 6010B		5028415	5028236

BOE-C6-0011174

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A290137 **Work Order #...:** G345A1AA **Matrix.....:** WATER
MB Lot-Sample #: E5B090000-487

Prep Date.....: 02/08/05 **Analysis Time..:** 18:25
Analysis Date..: 02/08/05 **Prep Batch #...:** 5040487 **Instrument ID..:** MSR
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A290137 **Work Order #...:** G345A1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	112	(75 - 130)
1,2-Dichloroethane-d4	104	(65 - 135)
Toluene-d8	117	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: E5A290137 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5A280000-415 **Prep Batch #...:** 5028415						
Manganese	ND	0.015	mg/L	SW846 6010B	01/31-02/01/05	G3FC11AA

Dilution Factor: 1

Analysis Time..: 12:20 Analyst ID.....: 021088 Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5A290137 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G3GHR1AA		MB Lot-Sample #:	E5A290000-072	
	ND	0.50	mg/L	MCAWW 300.0A	01/28/05	5029072
		Dilution Factor: 1				
		Analysis Time..: 14:28		Analyst ID.....: 000022	Instrument ID..: W01	
Bromide		Work Order #: G3NAA1AA		MB Lot-Sample #:	E5B020000-468	
	ND	0.50	mg/L	MCAWW 300.0A	02/02/05	5033468
		Dilution Factor: 1				
		Analysis Time..: 10:28		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: G3FJJ1AA		MB Lot-Sample #:	E5A280000-452	
	ND	0.10	mg/L	MCAWW 300.0A	01/28/05	5028452
		Dilution Factor: 1				
		Analysis Time..: 14:28		Analyst ID.....: 000022	Instrument ID..: W01	
Sulfate		Work Order #: G3FFR1AA		MB Lot-Sample #:	E5A270000-344	
	ND	1.0	mg/L	MCAWW 300.0A	01/28/05	5027344
		Dilution Factor: 1				
		Analysis Time..: 14:28		Analyst ID.....: 000022	Instrument ID..: W01	
Total Organic Carbon (TOC)		Work Order #: G304F1AA		MB Lot-Sample #:	E5B040000-514	
	ND	1.0	mg/L	SW846 9060	02/04/05	5035514
		Dilution Factor: 1				
		Analysis Time..: 19:09		Analyst ID.....: 999995	Instrument ID..: W08	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A290137 **Work Order #...:** G345A1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B090000-487
Prep Date.....: 02/08/05 **Analysis Date..:** 02/08/05
Prep Batch #...: 5040487 **Analysis Time..:** 17:21
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**92**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**87**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**81**	**(65 - 135)**	**SW846 8260B**
Toluene	**95**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**94**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	114	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	118	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A290137 **Work Order #...:** G345A1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B090000-487
Prep Date.....: 02/08/05 **Analysis Date..:** 02/08/05
Prep Batch #...: 5040487 **Analysis Time..:** 17:21
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.17**	**ug/L**	**92**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.70**	**ug/L**	**87**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**8.11**	**ug/L**	**81**	**SW846 8260B**
Toluene	**10.0**	**9.48**	**ug/L**	**95**	**SW846 8260B**
Trichloroethene	**10.0**	**9.41**	**ug/L**	**94**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	114	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	118	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A290137 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A280000-415 **Prep Batch #...:** 5028415					
Manganese	97	(85 - 120)	SW846 6010B	01/31-02/01/05	G3FC11AC

Dilution Factor: 1 Analysis Time..: 12:26 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A290137 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A280000-415 **Prep Batch #...:** 5028415							
Manganese	0.500	0.486	mg/L	97	SW846 6010B	01/31-02/01/05	G3FC11AC

Dilution Factor: 1 Analysis Time..: 12:26 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A290137 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G3GHR1AC LCS Lot-Sample#: E5A290000-072			
	101	(90 - 110)	MCAWW 300.0A	01/28/05	5029072
		Dilution Factor: 1	Analysis Time..: 14:11	Analyst ID.....: 000022	
		Instrument ID..: W01			
Bromide		Work Order #: G3NAA1AC LCS Lot-Sample#: E5B020000-468			
	100	(90 - 110)	MCAWW 300.0A	02/02/05	5033468
		Dilution Factor: 1	Analysis Time..: 10:12	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: G3FJJ1AC LCS Lot-Sample#: E5A280000-452			
	102	(90 - 110)	MCAWW 300.0A	01/28/05	5028452
		Dilution Factor: 1	Analysis Time..: 14:11	Analyst ID.....: 000022	
		Instrument ID..: W01			
Sulfate		Work Order #: G3FFR1AC LCS Lot-Sample#: E5A270000-344			
	102	(90 - 110)	MCAWW 300.0A	01/28/05	5027344
		Dilution Factor: 1	Analysis Time..: 14:11	Analyst ID.....: 000022	
		Instrument ID..: W01			
Total Organic Carbon (TOC)		Work Order #: G304F1AC LCS Lot-Sample#: E5B040000-514			
	91	(85 - 115)	SW846 9060	02/04/05	5035514
		Dilution Factor: 1	Analysis Time..: 19:09	Analyst ID.....: 999995	
		Instrument ID..: W08			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A290137 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			Work Order #: G3GHR1AC		LCS Lot-Sample#:	E5A290000-072	
	5.00	5.03	mg/L	101	MCAWW 300.0A	01/28/05	5029072
			Dilution Factor: 1		Analysis Time..: 14:11	Analyst ID.....: 000022	
			Instrument ID..: W01				
Bromide			Work Order #: G3NAA1AC		LCS Lot-Sample#:	E5B020000-468	
	5.00	5.01	mg/L	100	MCAWW 300.0A	02/02/05	5033468
			Dilution Factor: 1		Analysis Time..: 10:12	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: G3FJJ1AC		LCS Lot-Sample#:	E5A280000-452	
	5.00	5.10	mg/L	102	MCAWW 300.0A	01/28/05	5028452
			Dilution Factor: 1		Analysis Time..: 14:11	Analyst ID.....: 000022	
			Instrument ID..: W01				
Sulfate			Work Order #: G3FFR1AC		LCS Lot-Sample#:	E5A270000-344	
	25.0	25.6	mg/L	102	MCAWW 300.0A	01/28/05	5027344
			Dilution Factor: 1		Analysis Time..: 14:11	Analyst ID.....: 000022	
			Instrument ID..: W01				
Total Organic Carbon (TOC)			Work Order #: G304F1AC		LCS Lot-Sample#:	E5B040000-514	
	25.0	22.8	mg/L	91	SW846 9060	02/04/05	5035514
			Dilution Factor: 1		Analysis Time..: 19:09	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5A290137	**Work Order #...:**	G3F3X1AE-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5A290132-005		G3F3X1AF-MSD		
Date Sampled...:	01/27/05 09:24	**Date Received..:**	01/28/05 10:00	**MS Run #.....:**	5040273
Prep Date.....:	02/08/05	**Analysis Date..:**	02/09/05		
Prep Batch #...:	5040487	**Analysis Time..:**	02:29		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**94**	**(75 - 125)**			**SW846 8260B**
	99	**(75 - 125)**	**5.0**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**90**	**(75 - 125)**			**SW846 8260B**
	95	**(75 - 125)**	**5.5**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**84**	**(65 - 135)**			**SW846 8260B**
	87	**(65 - 135)**	**2.9**	**(0-25)**	**SW846 8260B**
Toluene	**100**	**(75 - 125)**			**SW846 8260B**
	107	**(75 - 125)**	**6.4**	**(0-25)**	**SW846 8260B**
Trichloroethene	**95**	**(75 - 135)**			**SW846 8260B**
	104	**(75 - 135)**	**8.7**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	115	(75 - 130)
	115	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
	98	(65 - 135)
Toluene-d8	122	(80 - 130)
	123	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5A290137	**Work Order #...:**	G3F3X1AE-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5A290132-005		G3F3X1AF-MSD		
Date Sampled...:	01/27/05 09:24	**Date Received..:**	01/28/05 10:00	**MS Run #.....:**	5040273
Prep Date.....:	02/08/05	**Analysis Date..:**	02/09/05		
Prep Batch #...:	5040487	**Analysis Time..:**	02:29		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.45**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.94**	**ug/L**	**99**	**5.0**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**8.98**	**ug/L**	**90**		**SW846 8260B**
	ND	**10.0**	**9.49**	**ug/L**	**95**	**5.5**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**8.44**	**ug/L**	**84**		**SW846 8260B**
	ND	**10.0**	**8.69**	**ug/L**	**87**	**2.9**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.0**	**ug/L**	**100**		**SW846 8260B**
	ND	**10.0**	**10.7**	**ug/L**	**107**	**6.4**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.54**	**ug/L**	**95**		**SW846 8260B**
	ND	**10.0**	**10.4**	**ug/L**	**104**	**8.7**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	115	(75 - 130)
	115	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
	98	(65 - 135)
Toluene-d8	122	(80 - 130)
	123	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A290137 **Matrix.....:** WATER
Date Sampled...: 01/27/05 10:34 **Date Received..:** 01/27/05 18:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A280267-002 **Prep Batch #...:** 5028415							
Manganese	95	(85 - 120)			SW846 6010B	01/31-02/01/05	G3EX81AG
	94	(85 - 120)	1.2	(0-20)	SW846 6010B	01/31-02/01/05	G3EX81AH

Dilution Factor: 1
Analysis Time..: 14:02 Instrument ID..: M01 Analyst ID.....: 021086
MS Run #.....: 5028236

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A290137 **Matrix.....:** WATER
Date Sampled...: 01/27/05 10:34 **Date Received..:** 01/27/05 18:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A280267-002 **Prep Batch #...:** 5028415									
Manganese									
	0.022	0.500	0.499	mg/L	95		SW846 6010B	01/31-02/01/05	G3EX81AG
	0.022	0.500	0.493	mg/L	94	1.2	SW846 6010B	01/31-02/01/05	G3EX81AH

Dilution Factor: 1
Analysis Time..: 14:02 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5028236

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A290137 **Matrix.....:** WATER
Date Sampled...: 01/28/05 06:55 **Date Received..:** 02/01/05 12:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: G3L1F1AE-MS/G3L1F1AF-MSD MS Lot-Sample #: E5B020205-004					
	100	(80 - 120)			MCAWW 300.0A	02/02/05	5033468
	95	(80 - 120)	4.0	(0-20)	MCAWW 300.0A	02/02/05	5033468
		Dilution Factor: 1					
		Analysis Time..: 19:09 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5033330					
Nitrate as N		WO#: G3GCN1A9-MS/G3GCN1CA-MSD MS Lot-Sample #: E5A290169-001					
	97	(80 - 120)			MCAWW 300.0A	01/28-01/29/05	5028452
	98	(80 - 120)	1.0	(0-20)	MCAWW 300.0A	01/28-01/29/05	5028452
		Dilution Factor: 1					
		Analysis Time..: 00:14 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5029055					
Sulfate		WO#: G3AFK1GP-MS/G3AFK1GQ-MSD MS Lot-Sample #: E5A270166-001					
	99	(80 - 120)			MCAWW 300.0A	01/28/05	5027344
	98	(80 - 120)	0.28	(0-20)	MCAWW 300.0A	01/28/05	5027344
		Dilution Factor: 50					
		Analysis Time..: 17:48 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5028247					
Total Organic Carbon (TOC)		WO#: G3KRT1AL-MS/G3KRT1AM-MSD MS Lot-Sample #: E5B010295-001					
	90	(85 - 115)			SW846 9060	02/04/05	5035513
	92	(85 - 115)	1.9	(0-20)	SW846 9060	02/04/05	5035513
		Dilution Factor: 1					
		Analysis Time..: 19:09 Instrument ID..: W08 Analyst ID.....: 999995					
		MS Run #.....: 5039111					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A290137 **Matrix.....:** WATER
Date Sampled...: 01/28/05 06:55 **Date Received..:** 02/01/05 12:50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: G3L1F1AE-MS/G3L1F1AF-MSD				MS Lot-Sample #: E5B020205-004		
	0.77	2.50	3.26	mg/L	100		MCAWW 300.0A	02/02/05	5033468
	0.77	2.50	3.14	mg/L	95	4.0	MCAWW 300.0A	02/02/05	5033468
			Dilution Factor: 1						
			Analysis Time..: 19:09		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5033330						
Nitrate as N			WO#: G3GCN1A9-MS/G3GCN1CA-MSD				MS Lot-Sample #: E5A290169-001		
	0.43	50.0	49.0	mg/L	97		MCAWW 300.0A	01/28-01/29/05	5028452
	0.43	50.0	49.5	mg/L	98	1.0	MCAWW 300.0A	01/28-01/29/05	5028452
			Dilution Factor: 1						
			Analysis Time..: 00:14		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5029055						
Sulfate			WO#: G3AFK1GP-MS/G3AFK1GQ-MSD				MS Lot-Sample #: E5A270166-001		
	501	625	1120	mg/L	99		MCAWW 300.0A	01/28/05	5027344
	501	625	1120	mg/L	98	0.28	MCAWW 300.0A	01/28/05	5027344
			Dilution Factor: 50						
			Analysis Time..: 17:48		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5028247						
Total Organic Carbon (TOC)			WO#: G3KRT1AL-MS/G3KRT1AM-MSD				MS Lot-Sample #: E5B010295-001		
	6.0	25.0	28.5	mg/L	90		SW846 9060	02/04/05	5035513
	6.0	25.0	29.1	mg/L	92	1.9	SW846 9060	02/04/05	5035513
			Dilution Factor: 1						
			Analysis Time..: 19:09		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5039111						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A290137 **Matrix.....:** WG
Date Sampled...: 01/28/05 13:19 **Date Received..:** 01/28/05 18:05

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: G3F521AG-MS/G3F521AH-MSD				MS Lot-Sample #: E5A290137-004	
	83	(80 - 120)			MCAWW 300.0A	01/28-01/29/05	5029072
	118 *	(80 - 120)	34	(0-20)	MCAWW 300.0A	01/28-01/29/05	5029072

Dilution Factor: 5
Analysis Time..: 03:19 Instrument ID..: W01 Analyst ID.....: 000022
MS Run #.....: 5029048

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A290137 **Matrix.....:** WG
Date Sampled...: 01/28/05 13:19 **Date Received..:** 01/28/05 18:05

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: G3F521AG-MS/G3F521AH-MSD				MS Lot-Sample #: E5A290137-004		
	0.38	12.5	10.8	mg/L	83		MCAWW 300.0A	01/28-01/29/05	5029072
	0.38	12.5	15.2 *	mg/L	118	34	MCAWW 300.0A	01/28-01/29/05	5029072

Dilution Factor: 5
Analysis Time..: 03:19 Instrument ID..: W01 Analyst ID.....: 000022
MS Run #.....: 5029048

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits.

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

February 10, 2005

STL LOT NUMBER: E5A280267
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

David Poley
ARCADIS Geraghty & Miller, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the seven samples received under chain of custody by STL Los Angeles on January 27, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 313.

Sincerely,

Diane Suzuki
Customer Service Manager

CC: Project File

000056

Page 1 of _____ total pages in this report.

LOT NUMBER E5A280267

Nonconformance 05-11428

Affected Samples:
E5A280267 (2): IRZMW002B_WG012705_01
E5A280267 (3): IRZMW002A_WG012705_01
E5A280267 (4): IRZMW001A_WG012705_01
E5A280267 (5): IRZMW001B_WG012705_01
E5A280267 (6): IRZMW003A_WG012705_01

Affected Methods:
6010B Dissolved Metals

Case Narrative:
Samples were received by the lab unfiltered and unpreserved for Dissolved Metals Analysis. The samples were filtered and preserved with Nitric Acid to a pH<2 prior to metals digestion. Pre-preserved bottles with Nitric Acid wereused as containers.

BOE-C6-0011194

E5A280267

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

L-4124 (0901)

Client: ARCADIS	Project Manager: David Poley	Date: 1/27/05	Chain of Custody Number: 183003
Address: 1400 N. Harbor Blvd Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 FAX (714) 278-0051	Lab Number: [redacted]	Page 1 of 1
City: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez	Lab Contact:	
Project Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260	TOC	Dissolved Mn	Bromide, Sulfate	N. trade	Special Instructions/ Conditions of Receipt
B_AR012705_01	1/27/05	—		✓						✓			X					
RZMW002B_WG012705_01	1/27/05	1039		✓			✓	✓		✓			X	X	X	X	X	
RZMW002A_WG012705_01	1/27/05	1320		✓			✓	✓		✓			X	X	X	X	X	
RZMW001A_WG012705_01	1/27/05	1416		✓			✓	✓		✓			X	X	X	X	X	
RZMW001B_WG012705_01	1/27/05	1501		✓			✓	✓		✓			X	X	X	X	X	
RZMW003A_WG012705_01	1/27/05	1605		✓			✓	✓		✓			X	X	X	X	X	
RZMW003B_WG012705_01	1/27/05	1643		✓			✓	✓		✓			X	X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

Relinquished By: [signature]	Date: 1/27/05	Time: 1840	1. Received By: Terry Swan	Date: 1-27-05	Time: 1840
Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: 2.4 - 0.2°CF = 2.2°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

BOE-C6-0011195

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 01/28/05

LIMS Lot #: E5A280267 Quote #: 48735

Client Name: ARCADIS Project: ARCADIS

Received by: TS Date/Time Received: 01/27/05 @1540

Delivered by : ☑ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other _____

****

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☑ None	01/28/05
Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None	
Custody Seal #(s): _____ ☑ No Seal #	
Sampler Signature on COC ☐ Yes ☐ No ☑ N/A	
IR Gun # A Correction Factor 0.2°C IR passed daily verification ☑ Yes ☐ No	
Temperature - BLANK 2.4°C +/0.2°C = 2.2°C	01/27/05
Temperature – COOLER (___°C ___°C ___°C ___°C) = ___ avg °C +/- ___ CF = ___ °C	01/28/05
Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☑ N/A	
Sample Container(s): ☑ STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ___ All within temp criteria ☐ Yes ☐ No ☑ N/A	
One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☑ N/A	
Samples: ☑ Intact ☐ Broken ☐ Other _____	
pH measured: ☑ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A	
Anomalies: ☑ No ☐ Yes – complete CUR and Create NCM NCM # _____	

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☑ Yes ☐ N/A

Labeled by: BM Labeling checked BM

****

Turn Around Time: ☐ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☑ NORMAL

Short-Hold Notification: ☐ pH ☒ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired...

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____

_____

_____

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☒ N/A 01/28/05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5A280267

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2	3	4	5	6	7							
VOAH/ *	3	3	3	3	3	3	3							
1L PB		1	1	1	1	1	1							
500 PB		1	1	1	1	1	1							
250 AGS		1	1	1	1	1	1							

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☑ N/A 01/28/05

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: 01/28/05

PM Review/Date: 01-28-05

SEVERN TRENT STL

Analytical Report

EXECUTIVE SUMMARY - Detection Highlights

E5A280267

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW002B_WG012705_01 01/27/05 10:34	**002**			
Manganese - DISSOLVED	0.022	0.015	mg/L	SW846 6010B
cis-1,2-Dichloroethene	7.2	5.0	ug/L	SW846 8260B
Trichloroethene	240	5.0	ug/L	SW846 8260B
Sulfate	67.6	5.0	mg/L	MCAWW 300.0A
Nitrate as N	8.1	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.3	1.0	mg/L	SW846 9060
Bromide	0.78	0.50	mg/L	MCAWW 300.0A
IRZMW002A_WG012705_01 01/27/05 13:20	**003**			
Manganese - DISSOLVED	1.5	0.015	mg/L	SW846 6010B
cis-1,2-Dichloroethene	490	250	ug/L	SW846 8260B
Trichloroethene	8700	250	ug/L	SW846 8260B
Sulfate	64.9	5.0	mg/L	MCAWW 300.0A
Nitrate as N	5.0	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	6.0	1.0	mg/L	SW846 9060
Bromide	1.7	0.50	mg/L	MCAWW 300.0A
IRZMW001A_WG012705_01 01/27/05 14:16	**004**			
Manganese - DISSOLVED	0.048	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	58 J	120	ug/L	SW846 8260B
cis-1,2-Dichloroethene	38 J	120	ug/L	SW846 8260B
Trichloroethene	7700	120	ug/L	SW846 8260B
Sulfate	62.3	5.0	mg/L	MCAWW 300.0A
Nitrate as N	9.2	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	4.4	1.0	mg/L	SW846 9060
Bromide	1.9	0.50	mg/L	MCAWW 300.0A
IRZMW001B_WG012705_01 01/27/05 15:01	**005**			
Manganese - DISSOLVED	0.037	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	17 J	25	ug/L	SW846 8260B
Trichloroethene	1600	25	ug/L	SW846 8260B
Sulfate	93.2	5.0	mg/L	MCAWW 300.0A
Nitrate as N	7.3	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.0	1.0	mg/L	SW846 9060
Bromide	0.47 B	0.50	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5A280267

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW003A_WG012705_01 01/27/05 16:05	**006**			
Manganese - DISSOLVED	0.12	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	78 J	250	ug/L	SW846 8260B
cis-1,2-Dichloroethene	220 J	250	ug/L	SW846 8260B
Trichloroethene	14000	250	ug/L	SW846 8260B
Sulfate	41.7	1.0	mg/L	MCAWW 300.0A
Nitrate as N	6.2	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	5.5	1.0	mg/L	SW846 9060
Bromide	1.3	0.50	mg/L	MCAWW 300.0A
IRZMW003B_WG012705_01 01/27/05 16:43	**007**			
Manganese - DISSOLVED	0.019	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	16	10	ug/L	SW846 8260B
Trichloroethene	900	10	ug/L	SW846 8260B
Sulfate	79.8	5.0	mg/L	MCAWW 300.0A
Nitrate as N	5.9	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.8	1.0	mg/L	SW846 9060
Bromide	0.58	0.50	mg/L	MCAWW 300.0A

METHODS SUMMARY

E5A280267

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Bromide	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5A280267

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G3EX2	001	TB_AR012705_01	01/27/05	
G3EX8	002	IRZMW002B_WG012705_01	01/27/05	10:34
G3E0P	003	IRZMW002A_WG012705_01	01/27/05	13:20
G3E0V	004	IRZMW001A_WG012705_01	01/27/05	14:16
G3E00	005	IRZMW001B_WG012705_01	01/27/05	15:01
G3E04	006	IRZMW003A_WG012705_01	01/27/05	16:05
G3E05	007	IRZMW003B_WG012705_01	01/27/05	16:43

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-001 **Work Order #...:** G3EX21AA **Matrix.....:** WQ
Date Sampled...: 01/27/05 **Date Received..:** 01/27/05 18:40 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/06/05
Prep Batch #...: 5038412 **Analysis Time..:** 23:29
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodiflucromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichlcroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

(Continued on next page)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-001 **Work Order #...:** G3EX21AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 130)
1,2-Dichloroethane-d4	106	(65 - 135)
Toluene-d8	119	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-002 **Work Order #...:** G3EX81AJ **Matrix.....:** WG
Date Sampled...: 01/27/05 10:34 **Date Received..:** 01/27/05 18:40 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/07/05
Prep Batch #...: 5038412 **Analysis Time..:** 04:50
Dilution Factor: 5
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	50	ug/L	15
Benzene	ND	5.0	ug/L	1.5
Bromobenzene	ND	5.0	ug/L	1.5
Bromochloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
2-Butanone	ND	25	ug/L	15
n-Butylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
Carbon disulfide	ND	5.0	ug/L	1.5
Carbon tetrachloride	ND	5.0	ug/L	1.5
Chlorobenzene	ND	5.0	ug/L	1.5
Dibromochloromethane	ND	5.0	ug/L	2.0
Bromodichloromethane	ND	5.0	ug/L	1.5
Chloroethane	ND	10	ug/L	1.5
Chloroform	ND	5.0	ug/L	1.5
Chloromethane	ND	10	ug/L	1.5
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.5
1,2-Dibromoethane (EDB)	ND	5.0	ug/L	1.5
Dibromomethane	ND	5.0	ug/L	2.0
1,2-Dichlorobenzene	ND	5.0	ug/L	1.5
1,3-Dichlorobenzene	ND	5.0	ug/L	1.5
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
Dichlorodifluoromethane	ND	10	ug/L	2.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	2.0
1,1-Dichloroethene	ND	5.0	ug/L	1.5
cis-1,2-Dichloroethene	**7.2**	**5.0**	**ug/L**	**1.5**
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.5
1,2-Dichloropropane	ND	5.0	ug/L	1.5
1,3-Dichloropropane	ND	5.0	ug/L	2.0
2,2-Dichloropropane	ND	5.0	ug/L	1.5
1,1-Dichloropropene	ND	5.0	ug/L	1.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-002 **Work Order #...:** G3EX81AJ **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	5.0	ug/L	1.5
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.5
Ethylbenzene	ND	5.0	ug/L	1.0
Hexachlorobutadiene	ND	5.0	ug/L	1.5
2-Hexanone	ND	25	ug/L	15
Isopropylbenzene	ND	5.0	ug/L	1.5
p-Isopropyltoluene	ND	5.0	ug/L	1.5
Methylene chloride	ND	5.0	ug/L	1.5
4-Methyl-2-pentanone	ND	25	ug/L	15
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
Naphthalene	ND	5.0	ug/L	2.5
n-Propylbenzene	ND	5.0	ug/L	2.0
Styrene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	2.0
Tetrachloroethene	ND	5.0	ug/L	1.5
Toluene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
Trichloroethene	**240**	**5.0**	**ug/L**	**1.5**
Trichlorofluoromethane	ND	10	ug/L	1.5
1,2,3-Trichloropropane	ND	5.0	ug/L	2.0
1,1,2-Trichlorotrifluoro-ethane	ND	5.0	ug/L	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.5
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
Vinyl chloride	ND	5.0	ug/L	1.5
m-Xylene & p-Xylene	ND	5.0	ug/L	2.5
o-Xylene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 130)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	120	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG012705_01

DISSOLVED Metals

Lot-Sample #...: E5A280267-002 **Matrix.....:** WG
Date Sampled...: 01/27/05 10:34 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**0.022**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3EX81AF**
		Dilution Factor: 1		Analysis Time..: 13:22	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG012705_01

General Chemistry

Lot-Sample #...: E5A280267-002 **Work Order #...:** G3EX8 **Matrix.....:** WG
Date Sampled...: 01/27/05 10:34 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.78**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028385**
		Dilution Factor: 1		Analysis Time..: 05:38	Analyst ID.....: 000022	
		Instrument ID..: W01		MS Run #.....: 5028233	MDL.....: 0.10	
Nitrate as N	**8.1**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028386**
		Dilution Factor: 1		Analysis Time..: 05:38	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5028234	MDL.....: 0.030	
Sulfate	**67.6**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028387**
		Dilution Factor: 5		Analysis Time..: 07:53	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5028235	MDL.....: 1.0	
Total Organic Carbon (TOC)	**3.3**	**1.0**	**mg/L**	**SW846 9060**	**01/28/05**	**5031201**
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5031152	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-003 **Work Order #...:** G3E0P1AG **Matrix.....:** WG
Date Sampled...: 01/27/05 13:20 **Date Received..:** 01/27/05 18:40 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/07/05
Prep Batch #...: 5038412 **Analysis Time..:** 05:11
Dilution Factor: 250
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2500	ug/L	750
Benzene	ND	250	ug/L	75
Bromobenzene	ND	250	ug/L	75
Bromochloromethane	ND	250	ug/L	75
Bromoform	ND	250	ug/L	75
Bromomethane	ND	500	ug/L	250
2-Butanone	ND	1200	ug/L	750
n-Butylbenzene	ND	250	ug/L	75
sec-Butylbenzene	ND	250	ug/L	75
tert-Butylbenzene	ND	250	ug/L	50
Carbon disulfide	ND	250	ug/L	75
Carbon tetrachloride	ND	250	ug/L	75
Chlorobenzene	ND	250	ug/L	75
Dibromochloromethane	ND	250	ug/L	100
Bromodichloromethane	ND	250	ug/L	75
Chloroethane	ND	500	ug/L	75
Chloroform	ND	250	ug/L	75
Chloromethane	ND	500	ug/L	75
2-Chlorotoluene	ND	250	ug/L	75
4-Chlorotoluene	ND	250	ug/L	75
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	180
1,2-Dibromoethane (EDB)	ND	250	ug/L	75
Dibromomethane	ND	250	ug/L	100
1,2-Dichlorobenzene	ND	250	ug/L	75
1,3-Dichlorobenzene	ND	250	ug/L	75
1,4-Dichlorobenzene	ND	250	ug/L	75
Dichlorodifluoromethane	ND	500	ug/L	100
1,1-Dichloroethane	ND	250	ug/L	50
1,2-Dichloroethane	ND	250	ug/L	100
1,1-Dichloroethene	ND	250	ug/L	75
cis-1,2-Dichloroethene	**490**	**250**	**ug/L**	**75**
trans-1,2-Dichloroethene	ND	250	ug/L	75
1,2-Dichloropropane	ND	250	ug/L	75
1,3-Dichloropropane	ND	250	ug/L	100
2,2-Dichloropropane	ND	250	ug/L	75
1,1-Dichloropropene	ND	250	ug/L	75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-003 **Work Order #...:** G3E0P1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	250	ug/L	75
trans-1,3-Dichloropropene	ND	250	ug/L	120
Ethylbenzene	ND	250	ug/L	50
Hexachlorobutadiene	ND	250	ug/L	75
2-Hexanone	ND	1200	ug/L	750
Isopropylbenzene	ND	250	ug/L	75
p-Isopropyltoluene	ND	250	ug/L	75
Methylene chloride	ND	250	ug/L	75
4-Methyl-2-pentanone	ND	1200	ug/L	750
Methyl tert-butyl ether	ND	250	ug/L	120
Naphthalene	ND	250	ug/L	120
n-Propylbenzene	ND	250	ug/L	100
Styrene	ND	250	ug/L	75
1,1,1,2-Tetrachloroethane	ND	250	ug/L	75
1,1,2,2-Tetrachloroethane	ND	250	ug/L	100
Tetrachloroethene	ND	250	ug/L	75
Toluene	ND	250	ug/L	75
1,2,3-Trichlorobenzene	ND	250	ug/L	100
1,2,4-Trichloro-benzene	ND	250	ug/L	75
1,1,1-Trichloroethane	ND	250	ug/L	50
1,1,2-Trichloroethane	ND	250	ug/L	75
Trichloroethene	**8700**	**250**	**ug/L**	**75**
Trichlorofluoromethane	ND	500	ug/L	75
1,2,3-Trichloropropane	ND	250	ug/L	100
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	100
1,2,4-Trimethylbenzene	ND	250	ug/L	75
1,3,5-Trimethylbenzene	ND	250	ug/L	50
Vinyl chloride	ND	250	ug/L	75
m-Xylene & p-Xylene	ND	250	ug/L	120
o-Xylene	ND	250	ug/L	50
Xylenes (total)	ND	250	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	120	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG012705_01

DISSOLVED Metals

Lot-Sample #...: E5A280267-003 **Matrix.....:** WG
Date Sampled...: 01/27/05 13:20 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	1.5	0.015	mg/L	SW846 6010B	01/31-02/01/05	G3E0P1AF
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG012705_01

General Chemistry

Lot-Sample #...: E5A280267-003 **Work Order #...:** G3E0P **Matrix.....:** WG
Date Sampled...: 01/27/05 13:20 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	1.7	0.50	mg/L	MCAWW 300.0A	01/27-01/28/05	5028385
		Dilution Factor: 1		Analysis Time..: 05:21	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5028233	MDL.....: 0.10	
Nitrate as N	5.0	0.10	mg/L	MCAWW 300.0A	01/27-01/28/05	5028386
		Dilution Factor: 1		Analysis Time..: 05:21	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5028234	MDL.....: 0.030	
Sulfate	64.9	5.0	mg/L	MCAWW 300.0A	01/27-01/28/05	5028387
		Dilution Factor: 5		Analysis Time..: 07:36	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5028235	MDL.....: 1.0	
Total Organic Carbon (TOC)	6.0	1.0	mg/L	SW846 9060	01/28/05	5031201
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5031152	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-004 **Work Order #...:** G3E0V1AN **Matrix.....:** WG
Date Sampled...: 01/27/05 14:16 **Date Received..:** 01/27/05 18:40 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/07/05
Prep Batch #...: 5038412 **Analysis Time..:** 05:32
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**58 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	**38 J**	**120**	**ug/L**	**38**
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-004 **Work Order #...:** G3E0V1AN **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**7700**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	119	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG012705_01

DISSOLVED Metals

Lot-Sample #...: E5A280267-004 **Matrix.....:** WG
Date Sampled...: 01/27/05 14:16 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**0.048**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3E0V1AF**
		Dilution Factor: 1		Analysis Time..: 14:28	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG012705_01

General Chemistry

Lot-Sample #...: E5A280267-004 **Work Order #...:** G3E0V **Matrix.....:** WG
Date Sampled...: 01/27/05 14:16 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	1.9	0.50	mg/L	MCAWW 300.0A	01/27-01/28/05	5028385
		Dilution Factor: 1		Analysis Time..: 04:48	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5028233	MDL.....: 0.10	
Nitrate as N	9.2	0.10	mg/L	MCAWW 300.0A	01/27-01/28/05	5028386
		Dilution Factor: 1		Analysis Time..: 04:48	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5028234	MDL.....: 0.030	
Sulfate	62.3	5.0	mg/L	MCAWW 300.0A	01/27-01/28/05	5028387
		Dilution Factor: 5		Analysis Time..: 06:29	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5028235	MDL.....: 1.0	
Total Organic Carbon (TOC)	4.4	1.0	mg/L	SW846 9060	01/28/05	5031201
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5031152	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-005 **Work Order #...:** G3E001AG **Matrix.....:** WG
Date Sampled...: 01/27/05 15:01 **Date Received..:** 01/27/05 18:40 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/07/05
Prep Batch #...: 5038412 **Analysis Time..:** 05:53
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	ND	120	ug/L	75
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	ND	25	ug/L	7.5
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	ND	25	ug/L	5.0
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**17 J**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	ND	25	ug/L	7.5
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-005 **Work Order #...:** G3E001AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**1600**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	121	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG012705_01

DISSOLVED Metals

Lot-Sample #...: E5A280267-005 **Matrix.....:** WG
Date Sampled...: 01/27/05 15:01 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**0.037**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3E001AF**
		Dilution Factor: 1		Analysis Time..: 14:34	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG012705_01

General Chemistry

Lot-Sample #...: E5A280267-005 **Work Order #...:** G3E00 **Matrix.....:** WG
Date Sampled...: 01/27/05 15:01 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.47 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028385**
		Dilution Factor: 1		Analysis Time..: 05:05	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5028233	MDL.....: 0.10	
Nitrate as N	**7.3**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028386**
		Dilution Factor: 1		Analysis Time..: 05:05	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5028234	MDL.....: 0.030	
Sulfate	**93.2**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028387**
		Dilution Factor: 5		Analysis Time..: 06:46	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5028235	MDL.....: 1.0	
Total Organic Carbon (TOC)	**3.0**	**1.0**	**mg/L**	**SW846 9060**	**01/28/05**	**5031201**
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5031152	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-006 **Work Order #...:** G3E041AG **Matrix.....:** WG
Date Sampled...: 01/27/05 16:05 **Date Received..:** 01/27/05 18:40 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/07/05
Prep Batch #...: 5038412 **Analysis Time..:** 06:15
Dilution Factor: 250
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2500	ug/L	750
Benzene	ND	250	ug/L	75
Bromobenzene	ND	250	ug/L	75
Bromochloromethane	ND	250	ug/L	75
Bromoform	ND	250	ug/L	75
Bromomethane	ND	500	ug/L	250
2-Butanone	ND	1200	ug/L	750
n-Butylbenzene	ND	250	ug/L	75
sec-Butylbenzene	ND	250	ug/L	75
tert-Butylbenzene	ND	250	ug/L	50
Carbon disulfide	ND	250	ug/L	75
Carbon tetrachloride	ND	250	ug/L	75
Chlorobenzene	ND	250	ug/L	75
Dibromochloromethane	ND	250	ug/L	100
Bromodichloromethane	ND	250	ug/L	75
Chloroethane	ND	500	ug/L	75
Chloroform	ND	250	ug/L	75
Chloromethane	ND	500	ug/L	75
2-Chlorotoluene	ND	250	ug/L	75
4-Chlorotoluene	ND	250	ug/L	75
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	180
1,2-Dibromoethane (EDB)	ND	250	ug/L	75
Dibromomethane	ND	250	ug/L	100
1,2-Dichlorobenzene	ND	250	ug/L	75
1,3-Dichlorobenzene	ND	250	ug/L	75
1,4-Dichlorobenzene	ND	250	ug/L	75
Dichlorodifluoromethane	ND	500	ug/L	100
1,1-Dichloroethane	ND	250	ug/L	50
1,2-Dichloroethane	ND	250	ug/L	100
1,1-Dichloroethene	**78 J**	**250**	**ug/L**	**75**
cis-1,2-Dichloroethene	**220 J**	**250**	**ug/L**	**75**
trans-1,2-Dichloroethene	ND	250	ug/L	75
1,2-Dichloropropane	ND	250	ug/L	75
1,3-Dichloropropane	ND	250	ug/L	100
2,2-Dichloropropane	ND	250	ug/L	75
1,1-Dichloropropene	ND	250	ug/L	75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-006 **Work Order #...:** G3E041AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	250	ug/L	75
trans-1,3-Dichloropropene	ND	250	ug/L	120
Ethylbenzene	ND	250	ug/L	50
Hexachlorobutadiene	ND	250	ug/L	75
2-Hexanone	ND	1200	ug/L	750
Isopropylbenzene	ND	250	ug/L	75
p-Isopropyltoluene	ND	250	ug/L	75
Methylene chloride	ND	250	ug/L	75
4-Methyl-2-pentanone	ND	1200	ug/L	750
Methyl tert-butyl ether	ND	250	ug/L	120
Naphthalene	ND	250	ug/L	120
n-Propylbenzene	ND	250	ug/L	100
Styrene	ND	250	ug/L	75
1,1,1,2-Tetrachloroethane	ND	250	ug/L	75
1,1,2,2-Tetrachloroethane	ND	250	ug/L	100
Tetrachloroethene	ND	250	ug/L	75
Toluene	ND	250	ug/L	75
1,2,3-Trichlorobenzene	ND	250	ug/L	100
1,2,4-Trichloro-benzene	ND	250	ug/L	75
1,1,1-Trichloroethane	ND	250	ug/L	50
1,1,2-Trichloroethane	ND	250	ug/L	75
Trichloroethene	**14000**	**250**	**ug/L**	**75**
Trichlorofluoromethane	ND	500	ug/L	75
1,2,3-Trichloropropane	ND	250	ug/L	100
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	100
1,2,4-Trimethylbenzene	ND	250	ug/L	75
1,3,5-Trimethylbenzene	ND	250	ug/L	50
Vinyl chloride	ND	250	ug/L	75
m-Xylene & p-Xylene	ND	250	ug/L	120
o-Xylene	ND	250	ug/L	50
Xylenes (total)	ND	250	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
1,2-Dichloroethane-d4	106	(65 - 135)
Toluene-d8	121	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG012705_01

DISSOLVED Metals

Lot-Sample #...: E5A280267-006 **Matrix.....:** WG
Date Sampled...: 01/27/05 16:05 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**0.12**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3E041AF**
		Dilution Factor: 1		Analysis Time..: 14:41	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG012705_01

General Chemistry

Lot-Sample #...: E5A280267-006 **Work Order #...:** G3E04 **Matrix.....:** WG
Date Sampled...: 01/27/05 16:05 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**1.3**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028385**
		Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5028233	MDL.....: 0.10	
Nitrate as N	**6.2**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028386**
		Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5028234	MDL.....: 0.030	
Sulfate	**41.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028387**
		Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5028235	MDL.....: 0.20	
Total Organic Carbon (TOC)	**5.5**	**1.0**	**mg/L**	**SW846 9060**	**01/28/05**	**5031201**
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5031152	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-007 **Work Order #...:** G3E051AG **Matrix.....:** WG
Date Sampled...: 01/27/05 16:43 **Date Received..:** 01/27/05 18:40 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/07/05
Prep Batch #...: 5038412 **Analysis Time..:** 06:36
Dilution Factor: 10
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	30
Benzene	ND	10	ug/L	3.0
Bromobenzene	ND	10	ug/L	3.0
Bromochloromethane	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Bromomethane	ND	20	ug/L	10
2-Butanone	ND	50	ug/L	30
n-Butylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
Carbon disulfide	ND	10	ug/L	3.0
Carbon tetrachloride	ND	10	ug/L	3.0
Chlorobenzene	ND	10	ug/L	3.0
Dibromochloromethane	ND	10	ug/L	4.0
Bromodichloromethane	ND	10	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Chloroform	ND	10	ug/L	3.0
Chloromethane	ND	20	ug/L	3.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2-Dibromoethane (EDB)	ND	10	ug/L	3.0
Dibromomethane	ND	10	ug/L	4.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
Dichlorodifluoromethane	ND	20	ug/L	4.0
1,1-Dichloroethane	ND	10	ug/L	2.0
1,2-Dichloroethane	ND	10	ug/L	4.0
1,1-Dichloroethene	**16**	**10**	**ug/L**	**3.0**
cis-1,2-Dichloroethene	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,2-Dichloropropane	ND	10	ug/L	3.0
1,3-Dichloropropane	ND	10	ug/L	4.0
2,2-Dichloropropane	ND	10	ug/L	3.0
1,1-Dichloropropene	ND	10	ug/L	3.0

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG012705_01

GC/MS Volatiles

Lot-Sample #...: E5A280267-007 **Work Order #...:** G3E051AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	10	ug/L	3.0
trans-1,3-Dichloropropene	ND	10	ug/L	5.0
Ethylbenzene	ND	10	ug/L	2.0
Hexachlorobutadiene	ND	10	ug/L	3.0
2-Hexanone	ND	50	ug/L	30
Isopropylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
Methylene chloride	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	30
Methyl tert-butyl ether	ND	10	ug/L	5.0
Naphthalene	ND	10	ug/L	5.0
n-Propylbenzene	ND	10	ug/L	4.0
Styrene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	3.0
Toluene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
1,1,2-Trichloroethane	ND	10	ug/L	3.0
Trichloroethene	**900**	**10**	**ug/L**	**3.0**
Trichlorofluoromethane	ND	20	ug/L	3.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
Vinyl chloride	ND	10	ug/L	3.0
m-Xylene & p-Xylene	ND	10	ug/L	5.0
o-Xylene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	124	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG012705_01

DISSOLVED Metals

Lot-Sample #...: E5A280267-007 **Matrix.....:** WG
Date Sampled...: 01/27/05 16:43 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5028415						
Manganese	**0.019**	**0.015**	**mg/L**	**SW846 6010B**	**01/31-02/01/05**	**G3E051AF**
		Dilution Factor: 1		Analysis Time..: 16:22	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5028236	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG012705_01

General Chemistry

Lot-Sample #...: E5A280267-007 **Work Order #...:** G3E05 **Matrix.....:** WG
Date Sampled...: 01/27/05 16:43 **Date Received..:** 01/27/05 18:40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.58**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028385**
		Dilution Factor: 1		Analysis Time..: 06:12	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5028233	MDL.....: 0.10	
Nitrate as N	**5.9**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028386**
		Dilution Factor: 1		Analysis Time..: 06:12	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5028234	MDL.....: 0.030	
Sulfate	**79.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/27-01/28/05**	**5028387**
		Dilution Factor: 5		Analysis Time..: 08:26	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5028235	MDL.....: 1.0	
Total Organic Carbon (TOC)	**3.8**	**1.0**	**mg/L**	**SW846 9060**	**01/28/05**	**5031201**
		Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 9999955	
		Instrument ID..: W08		MS Run #.....: 5031152	MDL.....: 0.40	

SEVERN TRENT STL

QA/QC

BOE-C6-0011229

QC DATA ASSOCIATION SUMMARY

E5A280267

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WQ	SW846 8260B		5038412	5038238
002	WG	MCAWW 300.0A		5028387	5028235
	WG	MCAWW 300.0A		5028386	5028234
	WG	SW846 9060		5031201	5031152
	WG	MCAWW 300.0A		5028385	5028233
	WG	SW846 8260B		5038412	5038238
	WG	SW846 6010B		5028415	5028236
003	WG	MCAWW 300.0A		5028387	5028235
	WG	MCAWW 300.0A		5028386	5028234
	WG	SW846 9060		5031201	5031152
	WG	MCAWW 300.0A		5028385	5028233
	WG	SW846 8260B		5038412	5038238
	WG	SW846 6010B		5028415	5028236
004	WG	MCAWW 300.0A		5028387	5028235
	WG	MCAWW 300.0A		5028386	5028234
	WG	SW846 9060		5031201	5031152
	WG	MCAWW 300.0A		5028385	5028233
	WG	SW846 8260B		5038412	5038238
	WG	SW846 6010B		5028415	5028236
005	WG	MCAWW 300.0A		5028387	5028235
	WG	MCAWW 300.0A		5028386	5028234
	WG	SW846 9060		5031201	5031152
	WG	MCAWW 300.0A		5028385	5028233
	WG	SW846 8260B		5038412	5038238
	WG	SW846 6010B		5028415	5028236
006	WG	MCAWW 300.0A		5028387	5028235
	WG	MCAWW 300.0A		5028386	5028234
	WG	SW846 9060		5031201	5031152
	WG	MCAWW 300.0A		5028385	5028233
	WG	SW846 8260B		5038412	5038238
	WG	SW846 6010B		5028415	5028236
007	WG	MCAWW 300.0A		5028387	5028235
	WG	MCAWW 300.0A		5028386	5028234
	WG	SW846 9060		5031201	5031152
	WG	MCAWW 300.0A		5028385	5028233
	WG	SW846 8260B		5038412	5038238
	WG	SW846 6010B		5028415	5028236

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A280267 **Work Order #...:** G3X9C1AA **Matrix.....:** WATER
MB Lot-Sample #: E5B070000-412

Prep Date.....: 02/06/05 **Analysis Time..:** 22:58
Analysis Date..: 02/06/05 **Prep Batch #...:** 5038412 **Instrument ID..:** MSR
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A280267 **Work Order #...:** G3X9C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	120	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: E5A280267 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5A280000-415 **Prep Batch #...:** 5028415						
Manganese	ND	0.015	mg/L	SW846 6010B	01/31-02/01/05	G3FC11AA

Dilution Factor: 1

Analysis Time..: 12:20 Analyst ID.....: 021088 Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5A280267 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G3FCK1AA		MB Lot-Sample #:	E5A280000-385	
	ND	0.50	mg/L	MCAWW 300.0A	01/27/05	5028385
		Dilution Factor: 1				
		Analysis Time..: 14:46		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: G3FCL1AA		MB Lot-Sample #:	E5A280000-386	
	ND	0.10	mg/L	MCAWW 300.0A	01/27-01/28/05	5028386
		Dilution Factor: 1				
		Analysis Time..: 04:31		Analyst ID.....: 000022	Instrument ID..: W01	
Sulfate		Work Order #: G3FCN1AA		MB Lot-Sample #:	E5A280000-387	
	ND	1.0	mg/L	MCAWW 300.0A	01/27/05	5028387
		Dilution Factor: 1				
		Analysis Time..: 14:46		Analyst ID.....: 000022	Instrument ID..: W01	
Total Organic Carbon (TOC)		Work Order #: G3G6R1AA		MB Lot-Sample #:	E5A310000-201	
	ND	1.0	mg/L	SW846 9060	01/28/05	5031201
		Dilution Factor: 1				
		Analysis Time..: 20:23		Analyst ID.....: 999995	Instrument ID..: W08	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A280267 **Work Order #...:** G3X9C1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B070000-412
Prep Date.....: 02/06/05 **Analysis Date..:** 02/06/05
Prep Batch #...: 5038412 **Analysis Time..:** 22:16
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**103**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**99**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**91**	**(65 - 135)**	**SW846 8260B**
Toluene	**108**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**104**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	114	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	123	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A280267 **Work Order #...:** G3X9C1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5B070000-412
Prep Date.....: 02/06/05 **Analysis Date..:** 02/06/05
Prep Batch #...: 5038412 **Analysis Time..:** 22:16
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**10.3**	**ug/L**	**103**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.89**	**ug/L**	**99**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.06**	**ug/L**	**91**	**SW846 8260B**
Toluene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Trichloroethene	**10.0**	**10.4**	**ug/L**	**104**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	114	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	123	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A280267 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#:	E5A280000-415	**Prep Batch #...:** 5028415			
Manganese	97	(85 - 120)	SW846 6010B	01/31-02/01/05	G3FC11AC

Dilution Factor: 1 Analysis Time..: 12:26 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A280267 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A280000-415 **Prep Batch #...:** 5028415							
Manganese	0.500	0.486	mg/L	97	SW846 6010B	01/31-02/01/05	G3FC11AC

Dilution Factor: 1 Analysis Time..: 12:26 Analyst ID.....: 021088
Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A280267 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G3FCK1AC	LCS Lot-Sample#: E5A280000-385		
	100	(90 - 110)	MCAWW 300.0A	01/27/05	5028385
		Dilution Factor: 1	Analysis Time..: 14:29	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: G3FCL1AC	LCS Lot-Sample#: E5A280000-386		
	103	(90 - 110)	MCAWW 300.0A	01/27-01/28/05	5028386
		Dilution Factor: 1	Analysis Time..: 04:14	Analyst ID.....: 000022	
		Instrument ID..: W01			
Sulfate		Work Order #: G3FCN1AC	LCS Lot-Sample#: E5A280000-387		
	101	(90 - 110)	MCAWW 300.0A	01/27/05	5028387
		Dilution Factor: 1	Analysis Time..: 14:29	Analyst ID.....: 000022	
		Instrument ID..: W01			
Total Organic Carbon (TOC)		Work Order #: G3G6R1AC	LCS Lot-Sample#: E5A310000-201		
	96	(85 - 115)	SW846 9060	01/28/05	5031201
		Dilution Factor: 1	Analysis Time..: 20:23	Analyst ID.....: 999995	
		Instrument ID..: W08			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A280267 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			Work Order #: G3FCK1AC		LCS Lot-Sample#:	E5A280000-385	
	5.00	4.99	mg/L	100	MCAWW 300.0A	01/27/05	5028385
			Dilution Factor: 1		Analysis Time..: 14:29	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: G3FCL1AC		LCS Lot-Sample#:	E5A280000-386	
	5.00	5.13	mg/L	103	MCAWW 300.0A	01/27-01/28/05	5028386
			Dilution Factor: 1		Analysis Time..: 04:14	Analyst ID.....: 000022	
			Instrument ID..: W01				
Sulfate			Work Order #: G3FCN1AC		LCS Lot-Sample#:	E5A280000-387	
	25.0	25.4	mg/L	101	MCAWW 300.0A	01/27/05	5028387
			Dilution Factor: 1		Analysis Time..: 14:29	Analyst ID.....: 000022	
			Instrument ID..: W01				
Total Organic Carbon (TOC)			Work Order #: G3G6R1AC		LCS Lot-Sample#:	E5A310000-201	
	25.0	24.0	mg/L	96	SW846 9060	01/28/05	5031201
			Dilution Factor: 1		Analysis Time..: 20:23	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5A280267	**Work Order #...:**	G3FFT1AE-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5A280326-023		G3FFT1AF-MSD		
Date Sampled...:	01/26/05 10:52	**Date Received..:**	01/27/05 17:30	**MS Run #.....:**	5038238
Prep Date.....:	02/06/05	**Analysis Date..:**	02/07/05		
Prep Batch #...:	5038412	**Analysis Time..:**	07:18		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**100**	**(75 - 125)**			**SW846 8260B**
	103	**(75 - 125)**	**2.4**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 125)**			**SW846 8260B**
	98	**(75 - 125)**	**3.9**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**90**	**(65 - 135)**			**SW846 8260B**
	91	**(65 - 135)**	**1.8**	**(0-25)**	**SW846 8260B**
Toluene	**104**	**(75 - 125)**			**SW846 8260B**
	109	**(75 - 125)**	**4.6**	**(0-25)**	**SW846 8260B**
Trichloroethene	**101**	**(75 - 135)**			**SW846 8260B**
	103	**(75 - 135)**	**2.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	115	(75 - 130)
	114	(75 - 130)
1,2-Dichloroethane-d4	102	(65 - 135)
	100	(65 - 135)
Toluene-d8	122	(80 - 130)
	123	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A280267 **Work Order #...:** G3FFT1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: E5A280326-023 G3FFT1AF-MSD
Date Sampled...: 01/26/05 10:52 **Date Received..:** 01/27/05 17:30 **MS Run #.....:** 5038238
Prep Date.....: 02/06/05 **Analysis Date..:** 02/07/05
Prep Batch #...: 5038412 **Analysis Time..:** 07:18
Dilution Factor: 1 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**10.0**	**ug/L**	**100**		**SW846 8260B**
	ND	**10.0**	**10.3**	**ug/L**	**103**	**2.4**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.44**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.82**	**ug/L**	**98**	**3.9**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**8.96**	**ug/L**	**90**		**SW846 8260B**
	ND	**10.0**	**9.12**	**ug/L**	**91**	**1.8**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	ND	**10.0**	**10.9**	**ug/L**	**109**	**4.6**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	ND	**10.0**	**10.3**	**ug/L**	**103**	**2.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	115	(75 - 130)
	114	(75 - 130)
1,2-Dichloroethane-d4	102	(65 - 135)
	100	(65 - 135)
Toluene-d8	122	(80 - 130)
	123	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A280267 **Matrix.....:** WG
Date Sampled...: 01/27/05 10:34 **Date Received..:** 01/27/05 18:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A280267-002 **Prep Batch #...:** 5028415							
Manganese	95	(85 - 120)			SW846 6010B	01/31-02/01/05	G3EX81AG
	94	(85 - 120)	1.2	(0-20)	SW846 6010B	01/31-02/01/05	G3EX81AH

Dilution Factor: 1
Analysis Time..: 14:02 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5028236

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A280267 **Matrix.....:** WG
Date Sampled...: 01/27/05 10:34 **Date Received..:** 01/27/05 18:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A280267-002 **Prep Batch #...:** 5028415									
Manganese									
	0.022	0.500	0.499	mg/L	95		SW846 6010B	01/31-02/01/05	G3EX81AG
	0.022	0.500	0.493	mg/L	94	1.2	SW846 6010B	01/31-02/01/05	G3EX81AH

Dilution Factor: 1
Analysis Time..: 14:02 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5028236

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A280267 **Matrix.....:** WG
Date Sampled...: 01/27/05 14:16 **Date Received..:** 01/27/05 18:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: G3E0V1AG-MS/G3E0V1AH-MSD				MS Lot-Sample #: E5A280267-004	
	98	(80 - 120)			MCAWW 300.0A	01/27-01/28/05	5028385
	98	(80 - 120)	0.33	(0-20)	MCAWW 300.0A	01/27-01/28/05	5028385
		Dilution Factor: 10					
		Analysis Time..: 09:50	Instrument ID..: W01			Analyst ID.....: 000022	
		MS Run #.....: 5028233					
Nitrate as N		WO#: G3E0V1AJ-MS/G3E0V1AK-MSD				MS Lot-Sample #: E5A280267-004	
	96	(80 - 120)			MCAWW 300.0A	01/27-01/28/05	5028386
	97	(80 - 120)	1.2	(0-20)	MCAWW 300.0A	01/27-01/28/05	5028386
		Dilution Factor: 10					
		Analysis Time..: 09:50	Instrument ID..: W01			Analyst ID.....: 000022	
		MS Run #.....: 5028234					
Sulfate		WO#: G3E0V1AL-MS/G3E0V1AM-MSD				MS Lot-Sample #: E5A280267-004	
	99	(80 - 120)			MCAWW 300.0A	01/27-01/28/05	5028387
	101	(80 - 120)	1.3	(0-20)	MCAWW 300.0A	01/27-01/28/05	5028387
		Dilution Factor: 10					
		Analysis Time..: 09:50	Instrument ID..: W01			Analyst ID.....: 000022	
		MS Run #.....: 5028235					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A280267 **Matrix.....:** WG
Date Sampled...: 01/27/05 14:16 **Date Received..:** 01/27/05 18:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: G3E0V1AG-MS/G3E0V1AH-MSD				MS Lot-Sample #: E5A280267-004		
	1.9	25.0	26.3	mg/L	98		MCAWW 300.0A	01/27-01/28/05	5028385
	1.9	25.0	26.4	mg/L	98	0.33	MCAWW 300.0A	01/27-01/28/05	5028385
			Dilution Factor: 10						
			Analysis Time..: 09:50		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5028233						
Nitrate as N			WO#: G3E0V1AJ-MS/G3E0V1AK-MSD				MS Lot-Sample #: E5A280267-004		
	9.2	25.0	33.2	mg/L	96		MCAWW 300.0A	01/27-01/28/05	5028386
	9.2	25.0	33.6	mg/L	97	1.2	MCAWW 300.0A	01/27-01/28/05	5028386
			Dilution Factor: 10						
			Analysis Time..: 09:50		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5028234						
Sulfate			WO#: G3E0V1AL-MS/G3E0V1AM-MSD				MS Lot-Sample #: E5A280267-004		
	62.3	125	186	mg/L	99		MCAWW 300.0A	01/27-01/28/05	5028387
	62.3	125	188	mg/L	101	1.3	MCAWW 300.0A	01/27-01/28/05	5028387
			Dilution Factor: 10						
			Analysis Time..: 09:50		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5028235						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A280267 **Matrix.....:** WATER
Date Sampled...: 01/20/05 13:15 **Date Received..:** 01/20/05 17:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		WO#: G22MF1CC-MS/G22MF1CD-MSD				MS Lot-Sample #: E5A210290-008	
	90	(85 - 115)			SW846 9060	01/28/05	5031201
	91	(85 - 115)	0.80	(0-20)	SW846 9060	01/28/05	5031201

Dilution Factor: 1
Analysis Time..: 20:23 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5031152

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A280267 **Matrix.....:** WATER
Date Sampled...: 01/20/05 13:15 **Date Received..:** 01/20/05 17:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			WO#: G22MF1CC-MS/G22MF1CD-MSD				MS Lot-Sample #: E5A210290-008		
	5.8	25.0	28.3	mg/L	90		SW846 9060	01/28/05	5031201
	5.8	25.0	28.5	mg/L	91	0.80	SW846 9060	01/28/05	5031201

Dilution Factor: 1
Analysis Time..: 20:23 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5031152

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

February 25, 2005

STL LOT NUMBER: E5A140394
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

David Poley
ARCADIS Geraghty & Miller, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the seven samples received under chain of custody by STL Los Angeles on January 14, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 313.

Sincerely,

Diane Suzuki
Customer Service Manager

CC: Project File

LOT NUMBER E5A140394

Nonconformance 05-11215

Affected Samples:
E5A140394 (4): IRZB0081_WG011405_01

Affected Methods:
8260B

Case Narrative:
Two VOA vials for sample E5A140394 (4): IRZB0081_WG011405_01 contain bubbles > 6mm in diameter. Analysis is performed on a VOA vial without headspace when available.

Nonconformance 05-11216; 11218

Affected Samples:
E5A140394 (3): IRZB0095_WG011405_01
E5A140394 (4): IRZB0081_WG011405_01

Affected Methods:
9060

Case Narrative:
The pH for the TOC containers were measured at 7. The lab preserved the sample to pH <2 with sulfuric acid upon receipt at the lab.

E5A140394

'hain of 'ustody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

-4124 (0901)

ient: ARCADIS	Project Manager: David Poley	Date: 1/14/05	Chain of Custody Number: 182858
ddress: 400 N Harbor Blvd, Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 FAX (714) 278-0051	Lab Number: E5A140394	Page 1 of 1
ty: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez; Lab Contact:		
oject Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
ontract/Purchase Order/Quote No.: CA5.14.06.06			

Sample I.D. No. and Description (ontainers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260	TOC	Alkalinity 23.2B	Special Instructions/ Conditions of Receipt
B_AR011405_01	1/14/05	—		✓						✓			X			
RZMW004_WG011405_01	1/14/05	1003		✓				✓		✓			X	X		
RZB0095_WG011405_01	1/14/05	1115		✓				✓		✓			X	X		
RZB0081_WG011405_01	1/14/05	1200		✓				✓		✓			X	X		
RZMW005_WG011405_01	1/14/05	1324		✓				✓		✓			X	X		
W0103C_WG011405_01	1/14/05	1425		✓			✓	✓		✓			X	X	X	
W0082C_WG011405_01	1/14/05	1450		✓			✓	✓		✓			X	X	X	

ossible Hazard Identification: ☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

urn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
Relinquished By: [signature]	1/14/05	1705	1. Received By: [signature]	01/14/05	1705
Relinquished By:			2. Received By:		
Relinquished By:			3. Received By:		

omments

STRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

BOE-C6-0011251

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 1-14-05

LIMS Lot #: E5A140394 Quote #: 48735

Client Name: Arcadis Project: C-6

Received by: AB Date/Time Received: 1-14-05

Delivered by : ☒ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

****

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None	RS 1-14-05
Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None	
Custody Seal #(s): ☒ No Seal #	
Sampler Signature on COC ☐ Yes ☐ No ☒ N/A	
IR Gun # 26A Correction Factor -0.2 °C IR passed daily verification ☒ Yes ☐ No	
Temperature - BLANK 2.6 °C +0.2 CF = 2.4 °C	
Temperature – COOLER (____ °C ____ °C ____ °C ____ °C) = ____ avg °C +/- ____ CF = ____ °C	
Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒ N/A	
Sample Container(s): ☒ STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐ No ☒ N/A	
One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒ N/A	
Samples: ☒ Intact ☐ Broken ☐ Other	
pH measured: ☐ Yes ☒ Anomaly (if checked, notify lab and file NCM) ☐ N/A	
Anomalies: ☐ No ☒ Yes – complete CUR and Create NCM NCM # 05-11215 05-11216 05-11218	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes, preservatives and within method specified holding times. ☐ Yes ☒ N/A	
Labeled by: RS Labeling checked	

****

Turn Around Time: ☐ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☒ NORMAL	
Short-Hold Notification: ☐ pH ☐ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired…	

Outside Analysis(es) (Test/Lab/Date Sent Out) :

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☐ N/A RS 1-14-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
-0011	#1,7	☒ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5A140394

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2	3	4	5	6	7							
VOAH/ *	3	2	2	2	2	2	2,3							
250AGS		1	1	1	1	1	1							
LP73						1	1							
			PH7											

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A 1-14-05

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☒ Improper pH _____ Lab to preserve sample and document #3 TOC
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: 1-14-05

PM Review/Date: 01-16-05

E5A140394

Chain of Custody Record

STL
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ARCADIS	Project Manager: David Poley	Date: 1/14/05	Chain of Custody Number: 182858
Address: 1400 N Harbor Blvd, Suite 700	Telephone Number (Area Code) Fax Number: (714) 278-0192 FAX (714) 278-0051	Lab Number: E5A140394	Page 1 of 1
City: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez	Lab Contact:	
Project Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: CA594.06.06			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260	TOC	Alkalinity 2320B	Special Instructions/ Conditions of Receipt
TB_AR011405_01	1/14/05	—		✓						✓			X			
IRZMW004_WG011405_01	1/14/05	1003		✓				✓		✓			X	X		
IRZB0095_WG011405_01	1/14/05	1115		✓				✓		✓			X	X		
IRZB0081_WG011405_01	1/14/05	1200		✓				✓		✓			X	X		
IRZMW005_WG011405_01	1/14/05	1324		✓				✓		✓			X	X		
AW0103C_WG011405_01	1/14/05	1425		✓			✓	✓		✓			X	X	X	
AW0082C_WG011405_01	1/14/05	1450		✓			✓	✓		✓			X	X	X	

Analysis (Attach list if more space is needed)

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

1 Relinquished By	Date 1/14/05	Time 1705	1 Received By	Date 01/14/05	Time 1705
2 Relinquished By	Date	Time	2 Received By	Date	Time
3 Relinquished By	Date	Time	3 Received By	Date	Time

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6

BOE-C6-0011254

SEVERN TRENT STL

Analytical Report

BOE-C6-0011255

EXECUTIVE SUMMARY - Detection Highlights

E5A140394

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TB_AR011405_01 01/14/05 001				
Acetone	4.3 J	10	ug/L	SW846 8260B
IRZMW004_WG011405_01 01/14/05 10:03 002				
Acetone	480 J	1200	ug/L	SW846 8260B
Chloroform	140	120	ug/L	SW846 8260B
1,1-Dichloroethene	48 J	120	ug/L	SW846 8260B
Tetrachloroethene	76 J	120	ug/L	SW846 8260B
Trichloroethene	5800	120	ug/L	SW846 8260B
Total Organic Carbon (TOC)	4.0	1.0	mg/L	SW846 9060
IRZB0095_WG011405_01 01/14/05 11:15 003				
Acetone	63 J	100	ug/L	SW846 8260B
2-Butanone	170	50	ug/L	SW846 8260B
Chloroform	6.6 J	10	ug/L	SW846 8260B
1,1-Dichloroethene	12	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	340	10	ug/L	SW846 8260B
Methylene chloride	4.7 J	10	ug/L	SW846 8260B
Tetrachloroethene	6.7 J	10	ug/L	SW846 8260B
Trichloroethene	620	10	ug/L	SW846 8260B
Total Organic Carbon (TOC)	2400	100	mg/L	SW846 9060
IRZB0081_WG011405_01 01/14/05 12:00 004				
Acetone	240 J	500	ug/L	SW846 8260B
2-Butanone	790	250	ug/L	SW846 8260B
1,1-Dichloroethene	32 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	150	50	ug/L	SW846 8260B
2-Hexanone	2000	250	ug/L	SW846 8260B
Trichloroethene	3000	50	ug/L	SW846 8260B
Total Organic Carbon (TOC)	4750	100	mg/L	SW846 9060
IRZMW005_WG011405_01 01/14/05 13:24 005				
Acetone	410 J	1000	ug/L	SW846 8260B
Chloroform	43 J	100	ug/L	SW846 8260B
1,1-Dichloroethene	60 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5200	100	ug/L	SW846 8260B
Trichloroethene	740	100	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5A140394

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW005_WG011405_01 01/14/05 13:24 005				
Total Organic Carbon (TOC)	157	10.0	mg/L	SW846 9060
AW0103_WG011405_01 01/14/05 14:25 006				
Bromoform	0.38 J	1.0	ug/L	SW846 8260B
Carbon disulfide	0.86 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.71 J	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	0.57 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	68	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.9	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.90 J	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	0.69 J	1.0	ug/L	SW846 8260B
Trichloroethene	26	1.0	ug/L	SW846 8260B
Bicarbonate Alkalinity	172	4.0	mg/L	SM18 2320 B
Total Organic Carbon (TOC)	2.6	1.0	mg/L	SW846 9060
Total Alkalinity	172 J	4.0	mg/L	SM18 2320 B
AW0082_WG011405_01 01/14/05 14:50 007				
1,1-Dichloroethane	1.0 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethane	1.2 J	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	140	2.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	4.7	2.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	2.6	2.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	1.6 J	2.0	ug/L	SW846 8260B
Trichloroethene	42	2.0	ug/L	SW846 8260B
Bicarbonate Alkalinity	219	4.0	mg/L	SM18 2320 B
Total Organic Carbon (TOC)	2.3	1.0	mg/L	SW846 9060
Total Alkalinity	219 J	4.0	mg/L	SM18 2320 B

BOE-C6-0011257

METHODS SUMMARY

E5A140394

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity, Total	SM18 2320 B	
Bicarbonate alkalinity	SM18 2320 B	
Carbonate Alkalinity	SM18 2320 B	
Hydroxide Alkalinity	SM18 2320 B	
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5A140394

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G2M2F	001	TB_AR011405_01	01/14/05	
G2M2L	002	IRZMW004_WG011405_01	01/14/05	10:03
G2M2M	003	IRZB0095_WG011405_01	01/14/05	11:15
G2M2X	004	IRZB0081_WG011405_01	01/14/05	12:00
G2M24	005	IRZMW005_WG011405_01	01/14/05	13:24
G2M28	006	AW0103_WG011405_01	01/14/05	14:25
G2M3G	007	AW0082_WG011405_01	01/14/05	14:50

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-001 **Work Order #...:** G2M2F1AA **Matrix.....:** W
Date Sampled...: 01/14/05 **Date Received..:** 01/14/05 17:05 **MS Run #.....:** 5015013
Prep Date.....: 01/14/05 **Analysis Date..:** 01/14/05
Prep Batch #...: 5015022 **Analysis Time..:** 20:10
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.3 J**	**10**	**ug/L**	**3.0**
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-001 **Work Order #...:** G2M2F1AA **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	90	(65 - 135)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-002 **Work Order #...:** G2M2L1AC **Matrix.....:** W
Date Sampled...: 01/14/05 10:03 **Date Received..:** 01/14/05 17:05 **MS Run #.....:** 5015013
Prep Date.....: 01/14/05 **Analysis Date..:** 01/14/05
Prep Batch #...: 5015022 **Analysis Time..:** 23:20
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**480 J**	**1200**	**ug/L**	**380**
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	**140**	**120**	**ug/L**	**38**
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**48 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	ND	120	ug/L	38
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-002 **Work Order #...:** G2M2L1AC **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	**76 J**	**120**	**ug/L**	**38**
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**5800**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG011405_01

General Chemistry

Lot-Sample #...: E5A140394-002 **Work Order #...:** G2M2L **Matrix.....:** W
Date Sampled...: 01/14/05 10:03 **Date Received..:** 01/14/05 17:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	4.0	1.0	mg/L	SW846 9060	01/19/05	5019425

Dilution Factor: 1 Analysis Time..: 16:34 Analyst ID.....: 999995
Instrument ID..: W08 MS Run #.....: 5020092 MDL.....: 0.40

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-003 **Work Order #...:** G2M2M1AC **Matrix.....:** W
Date Sampled...: 01/14/05 11:15 **Date Received..:** 01/14/05 17:05 **MS Run #.....:** 5015013
Prep Date.....: 01/14/05 **Analysis Date..:** 01/14/05
Prep Batch #...: 5015022 **Analysis Time..:** 23:41
Dilution Factor: 10
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**63 J**	**100**	**ug/L**	**30**
Benzene	ND	10	ug/L	3.0
Bromobenzene	ND	10	ug/L	3.0
Bromochloromethane	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Bromomethane	ND	20	ug/L	10
2-Butanone	**170**	**50**	**ug/L**	**30**
n-Butylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
Carbon disulfide	ND	10	ug/L	3.0
Carbon tetrachloride	ND	10	ug/L	3.0
Chlorobenzene	ND	10	ug/L	3.0
Dibromochloromethane	ND	10	ug/L	4.0
Bromodichloromethane	ND	10	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Chloroform	**6.6 J**	**10**	**ug/L**	**3.0**
Chloromethane	ND	20	ug/L	3.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2-Dibromoethane (EDB)	ND	10	ug/L	3.0
Dibromomethane	ND	10	ug/L	4.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
Dichlorodifluoromethane	ND	20	ug/L	4.0
1,1-Dichloroethane	ND	10	ug/L	2.0
1,2-Dichloroethane	ND	10	ug/L	4.0
1,1-Dichloroethene	**12**	**10**	**ug/L**	**3.0**
cis-1,2-Dichloroethene	**340**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,2-Dichloropropane	ND	10	ug/L	3.0
1,3-Dichloropropane	ND	10	ug/L	4.0
2,2-Dichloropropane	ND	10	ug/L	3.0
1,1-Dichloropropene	ND	10	ug/L	3.0

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-003 **Work Order #...:** G2M2M1AC **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	10	ug/L	3.0
trans-1,3-Dichloropropene	ND	10	ug/L	5.0
Ethylbenzene	ND	10	ug/L	2.0
Hexachlorobutadiene	ND	10	ug/L	3.0
2-Hexanone	ND	50	ug/L	30
Isopropylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
Methylene chloride	**4.7 J**	**10**	**ug/L**	**3.0**
4-Methyl-2-pentanone	ND	50	ug/L	30
Methyl tert-butyl ether	ND	10	ug/L	5.0
Naphthalene	ND	10	ug/L	5.0
n-Propylbenzene	ND	10	ug/L	4.0
Styrene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
Tetrachloroethene	**6.7 J**	**10**	**ug/L**	**3.0**
Toluene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
1,1,2-Trichloroethane	ND	10	ug/L	3.0
Trichloroethene	**620**	**10**	**ug/L**	**3.0**
Trichlorofluoromethane	ND	20	ug/L	3.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
Vinyl chloride	ND	10	ug/L	3.0
m-Xylene & p-Xylene	ND	10	ug/L	5.0
o-Xylene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	91	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG011405_01

General Chemistry

Lot-Sample #...: E5A140394-003 **Work Order #...:** G2M2M **Matrix.....:** W
Date Sampled...: 01/14/05 11:15 **Date Received..:** 01/14/05 17:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	2400	100	mg/L	SW846 9060	01/19/05	5019425

Dilution Factor: 100 Analysis Time..: 16:34 Analyst ID.....: 9999952
Instrument ID..: W08 MS Run #.....: 5020092 MDL.....: 40.0

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-004 **Work Order #...:** G2M2X1AC **Matrix.....:** W
Date Sampled...: 01/14/05 12:00 **Date Received..:** 01/14/05 17:05 **MS Run #.....:** 5015013
Prep Date.....: 01/15/05 **Analysis Date..:** 01/15/05
Prep Batch #...: 5015022 **Analysis Time..:** 00:03
Dilution Factor: 50
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**240 J**	**500**	**ug/L**	**150**
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Bromomethane	ND	100	ug/L	50
2-Butanone	**790**	**250**	**ug/L**	**150**
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	15
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	15
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**32 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**150**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	15
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-004 **Work Order #...:** G2M2X1AC **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	10
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	**2000**	**250**	**ug/L**	**150**
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	15
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**3000**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG011405_01

General Chemistry

Lot-Sample #...: E5A140394-004 **Work Order #...:** G2M2X **Matrix.....:** W
Date Sampled...: 01/14/05 12:00 **Date Received..:** 01/14/05 17:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	4750	100	mg/L	SW846 9060	01/19/05	5019425

Dilution Factor: 100 Analysis Time..: 16:34 Analyst ID.....: 9999952
Instrument ID..: W08 MS Run #.....: 5020092 MDL.....: 40.0

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-005 **Work Order #...:** G2M241AC **Matrix.....:** W
Date Sampled...: 01/14/05 13:24 **Date Received..:** 01/14/05 17:05 **MS Run #.....:** 5015013
Prep Date.....: 01/15/05 **Analysis Date..:** 01/15/05
Prep Batch #...: 5015022 **Analysis Time..:** 00:24
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**410 J**	**1000**	**ug/L**	**300**
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	**43 J**	**100**	**ug/L**	**30**
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**60 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**5200**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-005 **Work Order #...:** G2M241AC **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**740**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: 1RZMW005_WG011405_01

General Chemistry

Lot-Sample #...: E5A140394-005 **Work Order #...:** G2M24 **Matrix.....:** W
Date Sampled...: 01/14/05 13:24 **Date Received..:** 01/14/05 17:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	157	10.0	mg/L	SW846 9060	01/19/05	5019425

Dilution Factor: 10 Analysis Time..: 16:34 Analyst ID.....: 9999952
Instrument ID..: W08 MS Run #.....: 5020092 MDL.....: 4.0

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: AW0103_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-006 **Work Order #...:** G2M281AC **Matrix.....:** W
Date Sampled...: 01/14/05 14:25 **Date Received..:** 01/14/05 17:05 **MS Run #.....:** 5018223
Prep Date.....: 01/17/05 **Analysis Date..:** 01/17/05
Prep Batch #...: 5018391 **Analysis Time..:** 19:58
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	**0.38 J**	**1.0**	**ug/L**	**0.30**
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	**0.86 J**	**1.0**	**ug/L**	**0.30**
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	**0.71 J**	**1.0**	**ug/L**	**0.20**
1,2-Dichloroethane	**0.57 J**	**1.0**	**ug/L**	**0.40**
1,1-Dichloroethene	**68**	**1.0**	**ug/L**	**0.30**
cis-1,2-Dichloroethene	**2.9**	**1.0**	**ug/L**	**0.30**
trans-1,2-Dichloroethene	**0.90 J**	**1.0**	**ug/L**	**0.30**
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: AW0103_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-006 **Work Order #...:** G2M281AC **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	**0.69 J**	**1.0**	**ug/L**	**0.30**
Trichloroethene	**26**	**1.0**	**ug/L**	**0.30**
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	108	(65 - 135)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: AW0103_WG011405_01

General Chemistry

Lot-Sample #...: E5A140394-006 **Work Order #...:** G2M28 **Matrix.....:** W
Date Sampled...: 01/14/05 14:25 **Date Received..:** 01/14/05 17:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	**172**	**4.0**	**mg/L**	**SM18 2320 B**	**01/24/05**	**5025115**
		Dilution Factor: 1		Analysis Time..: 19:37	Analyst ID.....: 0000222	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Carbonate Alkalinity	ND	4.0	mg/L	SM18 2320 B	01/24/05	5025114
		Dilution Factor: 1		Analysis Time..: 19:37	Analyst ID.....: 000022	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Hydroxide Alkalinity	ND	4.0	mg/L	SM18 2320 B	01/24/05	5025113
		Dilution Factor: 1		Analysis Time..: 19:37	Analyst ID.....: 000022	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Total Alkalinity	**172 J**	**4.0**	**mg/L**	**SM18 2320 B**	**01/24/05**	**5025112**
		Dilution Factor: 1		Analysis Time..: 19:37	Analyst ID.....: 000022	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Total Organic Carbon (TOC)	**2.6**	**1.0**	**mg/L**	**SW846 9060**	**01/19/05**	**5019425**
		Dilution Factor: 1		Analysis Time..: 16:34	Analyst ID.....: 999995	
		Instrument ID..: W08		MS Run #.....: 5020092	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: AW0082_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-007 **Work Order #...:** G2M3G1AC **Matrix.....:** W
Date Sampled...: 01/14/05 14:50 **Date Received..:** 01/14/05 17:05 **MS Run #.....:** 5018223
Prep Date.....: 01/17/05 **Analysis Date..:** 01/17/05
Prep Batch #...: 5018391 **Analysis Time..:** 20:19
Dilution Factor: 2
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/L	6.0
Benzene	ND	2.0	ug/L	0.60
Bromobenzene	ND	2.0	ug/L	0.60
Bromochloromethane	ND	2.0	ug/L	0.60
Bromoform	ND	2.0	ug/L	0.60
Bromomethane	ND	4.0	ug/L	2.0
2-Butanone	ND	10	ug/L	6.0
n-Butylbenzene	ND	2.0	ug/L	0.60
sec-Butylbenzene	ND	2.0	ug/L	0.60
tert-Butylbenzene	ND	2.0	ug/L	0.40
Carbon disulfide	ND	2.0	ug/L	0.60
Carbon tetrachloride	ND	2.0	ug/L	0.60
Chlorobenzene	ND	2.0	ug/L	0.60
Dibromochloromethane	ND	2.0	ug/L	0.80
Bromodichloromethane	ND	2.0	ug/L	0.60
Chloroethane	ND	4.0	ug/L	0.60
Chloroform	ND	2.0	ug/L	0.60
Chloromethane	ND	4.0	ug/L	0.60
2-Chlorotoluene	ND	2.0	ug/L	0.60
4-Chlorotoluene	ND	2.0	ug/L	0.60
1,2-Dibromo-3-chloro-propane	ND	4.0	ug/L	1.4
1,2-Dibromoethane (EDB)	ND	2.0	ug/L	0.60
Dibromomethane	ND	2.0	ug/L	0.80
1,2-Dichlorobenzene	ND	2.0	ug/L	0.60
1,3-Dichlorobenzene	ND	2.0	ug/L	0.60
1,4-Dichlorobenzene	ND	2.0	ug/L	0.60
Dichlorodifluoromethane	ND	4.0	ug/L	0.80
1,1-Dichloroethane	**1.0 J**	**2.0**	**ug/L**	**0.40**
1,2-Dichloroethane	**1.2 J**	**2.0**	**ug/L**	**0.80**
1,1-Dichloroethene	**140**	**2.0**	**ug/L**	**0.60**
cis-1,2-Dichloroethene	**4.7**	**2.0**	**ug/L**	**0.60**
trans-1,2-Dichloroethene	**2.6**	**2.0**	**ug/L**	**0.60**
1,2-Dichloropropane	ND	2.0	ug/L	0.60
1,3-Dichloropropane	ND	2.0	ug/L	0.80
2,2-Dichloropropane	ND	2.0	ug/L	0.60
1,1-Dichloropropene	ND	2.0	ug/L	0.60

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: AW0082_WG011405_01

GC/MS Volatiles

Lot-Sample #...: E5A140394-007 **Work Order #...:** G2M3G1AC **Matrix.....:** W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	2.0	ug/L	0.60
trans-1,3-Dichloropropene	ND	2.0	ug/L	1.0
Ethylbenzene	ND	2.0	ug/L	0.40
Hexachlorobutadiene	ND	2.0	ug/L	0.60
2-Hexanone	ND	10	ug/L	6.0
Isopropylbenzene	ND	2.0	ug/L	0.60
p-Isopropyltoluene	ND	2.0	ug/L	0.60
Methylene chloride	ND	2.0	ug/L	0.60
4-Methyl-2-pentanone	ND	10	ug/L	6.0
Methyl tert-butyl ether	ND	2.0	ug/L	1.0
Naphthalene	ND	2.0	ug/L	1.0
n-Propylbenzene	ND	2.0	ug/L	0.80
Styrene	ND	2.0	ug/L	0.60
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L	0.60
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.80
Tetrachloroethene	ND	2.0	ug/L	0.60
Toluene	ND	2.0	ug/L	0.60
1,2,3-Trichlorobenzene	ND	2.0	ug/L	0.80
1,2,4-Trichloro-benzene	ND	2.0	ug/L	0.60
1,1,1-Trichloroethane	ND	2.0	ug/L	0.40
1,1,2-Trichloroethane	**1.6 J**	**2.0**	**ug/L**	**0.60**
Trichloroethene	**42**	**2.0**	**ug/L**	**0.60**
Trichlorofluoromethane	ND	4.0	ug/L	0.60
1,2,3-Trichloropropane	ND	2.0	ug/L	0.80
1,1,2-Trichlorotrifluoro-ethane	ND	2.0	ug/L	0.80
1,2,4-Trimethylbenzene	ND	2.0	ug/L	0.60
1,3,5-Trimethylbenzene	ND	2.0	ug/L	0.40
Vinyl chloride	ND	2.0	ug/L	0.60
m-Xylene & p-Xylene	ND	2.0	ug/L	1.0
o-Xylene	ND	2.0	ug/L	0.40
Xylenes (total)	ND	2.0	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	95	(65 - 135)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: AW0082_WG011405_01

General Chemistry

Lot-Sample #...: E5A140394-007 **Work Order #...:** G2M3G **Matrix.....:** W
Date Sampled...: 01/14/05 14:50 **Date Received..:** 01/14/05 17:05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	**219**	**4.0**	**mg/L**	**SM18 2320 B**	**01/24/05**	**5025115**
		Dilution Factor: 1		Analysis Time..: 19:48	Analyst ID.....: 0000222	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Carbonate Alkalinity	ND	4.0	mg/L	SM18 2320 B	01/24/05	5025114
		Dilution Factor: 1		Analysis Time..: 19:48	Analyst ID.....: 000022	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Hydroxide Alkalinity	ND	4.0	mg/L	SM18 2320 B	01/24/05	5025113
		Dilution Factor: 1		Analysis Time..: 19:48	Analyst ID.....: 000022	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Total Alkalinity	**219 J**	**4.0**	**mg/L**	**SM18 2320 B**	**01/24/05**	**5025112**
		Dilution Factor: 1		Analysis Time..: 19:48	Analyst ID.....: 000022	
		Instrument ID..: W04		MS Run #.....:	MDL.....: 2.0	
Total Organic Carbon (TOC)	**2.3**	**1.0**	**mg/L**	**SW846 9060**	**01/19/05**	**5019425**
		Dilution Factor: 1		Analysis Time..: 16:34	Analyst ID.....: 999995	
		Instrument ID..: W08		MS Run #.....: 5020092	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5A140394

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	W	SW846 8260B		5015022	5015013
002	W	SW846 9060		5019425	5020092
	W	SW846 8260B		5015022	5015013
003	W	SW846 9060		5019425	5020092
	W	SW846 8260B		5015022	5015013
004	W	SW846 9060		5019425	5020092
	W	SW846 8260B		5015022	5015013
005	W	SW846 9060		5019425	5020092
	W	SW846 8260B		5015022	5015013
006	W	SM18 2320 B		5025115	
	W	SM18 2320 B		5025113	
	W	SW846 9060		5019425	5020092
	W	SM18 2320 B		5025114	
	W	SM18 2320 B		5025112	
	W	SW846 8260B		5018391	5018223
007	W	SM18 2320 B		5025115	
	W	SM18 2320 B		5025113	
	W	SW846 9060		5019425	5020092
	W	SM18 2320 B		5025114	
	W	SM18 2320 B		5025112	
	W	SW846 8260B		5018391	5018223

BOE-C6-0011281

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2NMG1AA **Matrix.....:** WATER
MB Lot-Sample #: E5A150000-022

Prep Date.....: 01/14/05 **Analysis Time..:** 19:23
Analysis Date..: 01/14/05 **Prep Batch #...:** 5015022 **Instrument ID..:** MSR
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2NMG1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A140394
MB Lot-Sample #: E5A180000-391

Analysis Date..: 01/17/05
Dilution Factor: 1

Work Order #...: G2R761AA

Prep Date.....: 01/17/05
Prep Batch #...: 5018391

Analyst ID.....: 015590

Matrix.....: WATER

Analysis Time..: 19:36
Instrument ID..: MSR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2R761AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5A140394 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: G252F1AA		MB Lot-Sample #:	E5A250000-112	
	2.2 B	**4.0**	**mg/L**	**SM18 2320 B**	**01/24/05**	**5025112**
		Dilution Factor: 1				
		Analysis Time..: 19:09		Analyst ID.....: 000022	Instrument ID..: W04	
Total Organic Carbon (TOC)		Work Order #: G2W4N1AA		MB Lot-Sample #:	E5A190000-425	
	ND	1.0	mg/L	SW846 9060	01/19/05	5019425
		Dilution Factor: 1				
		Analysis Time..: 16:34		Analyst ID.....: 999995	Instrument ID..: W08	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2NMG1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A150000-022
Prep Date.....: 01/14/05 **Analysis Date..:** 01/14/05
Prep Batch #...: 5015022 **Analysis Time..:** 17:35
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**91**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**90**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**95**	**(65 - 135)**	**SW846 8260B**
Toluene	**96**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**90**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
Toluene-d8	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2NMG1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A150000-022
Prep Date.....: 01/14/05 **Analysis Date..:** 01/14/05
Prep Batch #...: 5015022 **Analysis Time..:** 17:35
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.06**	**ug/L**	**91**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.95**	**ug/L**	**90**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.47**	**ug/L**	**95**	**SW846 8260B**
Toluene	**10.0**	**9.57**	**ug/L**	**96**	**SW846 8260B**
Trichloroethene	**10.0**	**9.00**	**ug/L**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
Toluene-d8	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2R761AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A180000-391
Prep Date.....: 01/17/05 **Analysis Date..:** 01/17/05
Prep Batch #...: 5018391 **Analysis Time..:** 17:12
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**91**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**89**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**107**	**(65 - 135)**	**SW846 8260B**
Toluene	**95**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**92**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Eromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2R761AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A180000-391
Prep Date.....: 01/17/05 **Analysis Date..:** 01/17/05
Prep Batch #...: 5018391 **Analysis Time..:** 17:12
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.10**	**ug/L**	**91**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.90**	**ug/L**	**89**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**
Toluene	**10.0**	**9.47**	**ug/L**	**95**	**SW846 8260B**
Trichloroethene	**10.0**	**9.21**	**ug/L**	**92**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	88	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0011290

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: E5A140394 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#:G252F1AC-LCS/G252F1AD-LCSD				LCS Lot-Sample#: E5A250000-112	
	95	(85 - 115)			SM18 2320 B	01/24/05	5025112
	97	(85 - 115)	1.9	(0-20)	SM18 2320 B	01/24/05	5025112

Dilution Factor: 1 Analysis Time..: 18:45 Analyst ID.....: 000022

Instrument ID..: W04

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: E5A140394 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#:G252F1AC-LCS/G252F1AD-LCSD				LCS Lot-Sample#: E5A250000-112		
	800	759	mg/L	95		SM18 2320 B	01/24/05	5025112
	800	774	mg/L	97	1.9	SM18 2320 B	01/24/05	5025112

Dilution Factor: 1 Analysis Time..: 18:45 Analyst ID.....: 000022

Instrument ID..: W04

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A140394 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		Work Order #: G2W4N1AC	LCS Lot-Sample#: E5A190000-425		
	105	(85 - 115)	SW846 9060	01/19/05	5019425

Dilution Factor: 1 Analysis Time..: 16:34 Analyst ID.....: 999995

Instrument ID..: W08

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A140394 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			Work Order #:	G2W4N1AC	LCS Lot-Sample#:	E5A190000-425	
	25.0	26.2	mg/L	105	SW846 9060	01/19/05	5019425
			Dilution Factor: 1		Analysis Time..: 16:34	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5A140394	**Work Order #...:**	G2MCP1AE-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5A140304-002		G2MCP1AF-MSD		
Date Sampled...:	01/12/05 13:05	**Date Received..:**	01/13/05 18:00	**MS Run #.....:**	5015013
Prep Date.....:	01/15/05	**Analysis Date..:**	01/15/05		
Prep Batch #...:	5015022	**Analysis Time..:**	03:34		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**93**	**(75 - 125)**			**SW846 8260B**
	89	**(75 - 125)**	**4.5**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**91**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**4.4**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**93**	**(65 - 135)**			**SW846 8260B**
	92	**(65 - 135)**	**1.5**	**(0-25)**	**SW846 8260B**
Toluene	**97**	**(75 - 125)**			**SW846 8260B**
	92	**(75 - 125)**	**5.2**	**(0-25)**	**SW846 8260B**
Trichloroethene	**92**	**(75 - 135)**			**SW846 8260B**
	88	**(75 - 135)**	**4.6**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	100	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
	85	(65 - 135)
Toluene-d8	104	(80 - 130)
	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A140394 **Work Order #...:** G2MCP1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: E5A140304-002 G2MCP1AF-MSD
Date Sampled...: 01/12/05 13:05 **Date Received..:** 01/13/05 18:00 **MS Run #.....:** 5015013
Prep Date.....: 01/15/05 **Analysis Date..:** 01/15/05
Prep Batch #...: 5015022 **Analysis Time..:** 03:34
Dilution Factor: 1 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.27**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**8.86**	**ug/L**	**89**	**4.5**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.09**	**ug/L**	**91**		**SW846 8260B**
	ND	**10.0**	**8.70**	**ug/L**	**87**	**4.4**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**9.30**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.16**	**ug/L**	**92**	**1.5**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.72**	**ug/L**	**97**		**SW846 8260B**
	ND	**10.0**	**9.23**	**ug/L**	**92**	**5.2**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.23**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**8.81**	**ug/L**	**88**	**4.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	100	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
	85	(65 - 135)
Toluene-d8	104	(80 - 130)
	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5A140394	**Work Order #...:**	G2PPN1AD-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5A170126-001		G2PPN1AE-MSD		
Date Sampled...:	01/14/05 09:12	**Date Received..:**	01/14/05 19:15	**MS Run #.....:**	5018223
Prep Date.....:	01/17/05	**Analysis Date..:**	01/18/05		
Prep Batch #...:	5018391	**Analysis Time..:**	01:36		
Dilution Factor:	50	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**98**	**(75 - 125)**			**SW846 8260B**
	91	**(75 - 125)**	**7.4**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**81**	**(75 - 125)**			**SW846 8260B**
	88	**(75 - 125)**	**8.2**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**168 a**	**(65 - 135)**			**SW846 8260B**
	111 p	**(65 - 135)**	**41**	**(0-25)**	**SW846 8260B**
Toluene	**82**	**(75 - 125)**			**SW846 8260B**
	91	**(75 - 125)**	**11**	**(0-25)**	**SW846 8260B**
Trichloroethene	**0.0 MSB**	**(75 - 135)**			**SW846 8260B**
	0.0 MSB	**(75 - 135)**	**0.0**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(75 - 130)
	103	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
	101	(65 - 135)
Toluene-d8	95	(80 - 130)
	99	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5A140394	**Work Order #...:**	G2PPN1AD-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E5A170126-001		G2PPN1AE-MSD		
Date Sampled...:	01/14/05 09:12	**Date Received..:**	01/14/05 19:15	**MS Run #.....:**	5018223
Prep Date.....:	01/17/05	**Analysis Date..:**	01/18/05		
Prep Batch #...:	5018391	**Analysis Time..:**	01:36		
Dilution Factor:	50	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**500**	**492**	**ug/L**	**98**		**SW846 8260B**
	ND	**500**	**456**	**ug/L**	**91**	**7.4**	**SW846 8260B**
Chlorobenzene	**ND**	**500**	**406**	**ug/L**	**81**		**SW846 8260B**
	ND	**500**	**441**	**ug/L**	**88**	**8.2**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**500**	**838**	**ug/L**	**168 a**		**SW846 8260B**
	ND	**500**	**554**	**ug/L**	**111 p**	**41**	**SW846 8260B**
Toluene	**ND**	**500**	**408**	**ug/L**	**82**		**SW846 8260B**
	ND	**500**	**456**	**ug/L**	**91**	**11**	**SW846 8260B**
Trichloroethene	**2300**	**500**		**ug/L**	**0.0**		**SW846 8260B**
	Qualifiers: MSB						
	2300	**500**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers: MSB						

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(75 - 130)
	103	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
	101	(65 - 135)
Toluene-d8	95	(80 - 130)
	99	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A140394 **Matrix.....:** W
Date Sampled...: 01/14/05 10:03 **Date Received..:** 01/14/05 17:05

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		WO#: G2M2L1AD-MS/G2M2L1AE-MSD				MS Lot-Sample #: E5A140394-002	
	103	(85 - 115)			SW846 9060	01/19/05	5019425
	101	(85 - 115)	1.6	(0-20)	SW846 9060	01/19/05	5019425

Dilution Factor: 1
Analysis Time..: 16:34 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5020092

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A140394 **Matrix.....:** W
Date Sampled...: 01/14/05 10:03 **Date Received..:** 01/14/05 17:05

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			WO#: G2M2L1AD-MS/G2M2L1AE-MSD				MS Lot-Sample #: E5A140394-002		
	4.0	25.0	29.7	mg/L	103		SW846 9060	01/19/05	5019425
	4.0	25.0	29.2	mg/L	101	1.6	SW846 9060	01/19/05	5019425

Dilution Factor: 1
Analysis Time..: 16:34 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5020092

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

January 16, 2005

STL LOT NUMBER: E5A060144
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

David Poley
ARCADIS Geraghty & Miller, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the nine samples received under chain of custody by STL Los Angeles on January 5, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 313.

Sincerely,

Diane Suzuki
Customer Service Manager

CC: Project File

000067

Page 1 of _____ total pages in this report.

LOT NUMBER E5A060144

Nonconformance 05-11114; 11134

Affected Samples:
E5A060144 (1): IRZCMW002_WG010505_01
E5A060144 (2): CMW026_WG010505_01
E5A060144 (3): IRZCMW003_WG010505_01
E5A060144 (4): CMW001_WG010505_01
E5A060144 (5): IRZMW004_WG010505_01
E5A060144 (6): IRZB0095_WG010505_01
E5A060144 (7): IRZB0081_WG010505_01
E5A060144 (8): IRZMW005_WG010505_01
E5A060144 (9): TB_AR010505_01

Affected Methods:
376.2, 8260B

Case Narrative:
Three VOA vials for sample E5A060144 (7): IRZB0081_WG010505_01 contain bubbles > 6mm in diameter. VOA vial # 5 that contained headspace was analyzed.

Sulfate and Dissolved Manganese are on the sample labels, but not listed on the COC. Client confirmed that those tests were needed and sulfide was not.

Nonconformance 05-11122

Affected Samples:
E5A060144 (1): IRZCMW002_WG010505_01
E5A060144 (2): CMW026_WG010505_01
E5A060144 (3): IRZCMW003_WG010505_01
E5A060144 (4): CMW001_WG010505_01
E5A060144 (5): IRZMW004_WG010505_01
E5A060144 (6): IRZB0095_WG010505_01
E5A060144 (7): IRZB0081_WG010505_01
E5A060144 (8): IRZMW005_WG010505_01
E5A060144 (9): TB_AR010505_01

Affected Methods:
6010B Dissolved metals

Case Narrative:
Samples for dissolved metals were received at the lab unfiltered. The samples were filtered and preserved with nitric acid to pH <2 prior to digestion. Pre-preserved bottles were used as containers.

E5A060144

[redacted]

'hain of 'ustody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

.-4124 (0901)

ient: ARCADIS	Project Manager: David Poley	Date: 1/5/04	Chain of Custody Number: 181470
ldress: 400 N. Harbor Blvd. Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 FAX (714) 278-0051	Lab Number: ~~E5AF6144~~	Page 1 of 1
y: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez; Lab Contact:		
oject Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (ontainers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260	Bromide/Nitrate	Sulfide	TOC	Special Instructions/ Conditions of Receipt
RZMW002_WG010505_01	1/5/05	0934		✓			✓	✓		✓		✓	X	X	X	X	
MW026-WG010505_01	1/5/05	1046		✓			✓	✓		✓		✓	X	X	X	X	
RZCMW003_WG010505_01	1/5/05	1143		✓			✓	✓		✓		✓	X	X	X	X	
MW001_WG010505_01	1/5/05	1330		✓			✓	✓		✓		✓	X	X	X	X	
RZMW004_WG010505_01	1/5/05	1438		✓			✓	✓		✓		✓	X	X	X	X	
RZB0095_WG010505_01	1/5/05	1541		✓			✓	✓		✓		✓	X	X	X	X	
RZB0081_WG010505_01	1/5/05	1649		✓			✓	✓		✓		✓	X	X	X	X	
RZMW005_WG010505_01	1/5/05	1749		✓			✓	✓		✓		✓	X	X	X	X	
R_AR010505_01	1/5/05	—		✓						✓			X				

sible Hazard Identification: Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

n Around Time Required: 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
elinquished By: [signature]	1/5/05	2004	1. Received By: [signature]	01-05-05	2004
elinquished By:			2. Received By:		
elinquished By:			3. Received By:		

nments

RIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

BOE-C6-0011303

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 1/6/05

LIMS Lot #: E5A 060144 Quote #:

Client Name: ARCADIS Project: BOEING C-6

Received by: D.S. Date/Time Received: 1/6/05 2004

Delivered by: [X] Client [ ] STL [ ] DHL [ ] Fed Ex [ ] UPS [ ] Other

****

	Initial / Date
Custody Seal Status Cooler: [ ] Intact [ ] Broken [X] None	SQ. 1/6/05
Custody Seal Status Samples: [ ] Intact [ ] Broken [X] None	
Custody Seal #(s): [X] No Seal #	
Sampler Signature on COC [ ] Yes [ ] No [X] N/A	
IR Gun # ____ Correction Factor ____°C IR passed daily verification [X] Yes [ ] No	
Temperature - BLANK ____°C +/- ___ CF = ____°C	
Temperature – COOLER (____°C ____°C ____°C ____°C) = ____ avg °C +/- ____ CF = ____°C	
Samples outside temperature criteria but received within 6 hours of final sampling [X] Yes [ ] N/A	
Sample Container(s): [X] STL-LA [ ] Client	
One COC/Multiple coolers: [X] Yes- # coolers 2 All within temp criteria [X] Yes [ ] No [ ] N/A	
One or more coolers with an anomaly: [ ] Yes – (fill out PRC for each) [ ] N/A	
Samples: [X] Intact [ ] Broken [ ] Other	
pH measured: [X] Yes [ ] Anomaly (if checked, notify lab and file NCM) [ ] N/A	
Anomalies: [ ] No [X] Yes – complete CUR and Create NCM NCM #	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. [ ] Yes [X] N/A	
Labeled by: S Q Labeling checked S. Q	

****

Turn Around Time: [ ] RUSH–24HR [ ] RUSH–48HR [ ] RUSH–72HR [X] NORMAL	
Short-Hold Notification: [ ] pH [ ] Wet Chem [ ] Metals (Filter/Pres) [ ] Encore [ ] >1/2 HT expired…	

Outside Analysis(es) (Test/Lab/Date Sent Out) :

Cooler LA014 @ = 7.7

Cooler ANAHEIM @ = 9.2

SQ. 1/6/05

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly [ ] N/A

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
007	1-3	[X] > 6mm			[ ] > 6mm
		[ ] > 6mm			[ ] > 6mm
		[ ] > 6mm			[ ] > 6mm
		[ ] > 6mm			[ ] > 6mm
		[ ] > 6mm			[ ] > 6mm
		[ ] > 6mm			[ ] > 6mm
		[ ] > 6mm			[ ] > 6mm

LIMS Lot # E5A060144 **PROJECT RECEIPT CHECKLIST Cont'd**

Fraction	1-2	3-8	9											
VOAH/ *	3	3	3											
1L PB	1													
500 PB		1												
250 AGJ		1												
250 PB		1												
~~T.B.~~ (Acid)			~~3~~ (M)											

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A _____

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☒ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

_____

_____

_____

_____

_____

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: AB 01/06/05

PM Review/Date: [signature] 01.06.05

E5A060144

E5A060144

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

01/05/05

Client: ARCADIS	Project Manager: David Poley	Date: ~~1/5/04~~	Chain of Custody Number: 181470
Address: 1400 N. Harbor Blvd Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0942 FAX (714) 278-0051	Lab Number:	Page 1 of 1
City: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez	Lab Contact:	
Project Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No:			

Analysis (Attach list if more space is needed): 8260, Bromide/Nitrate, Sulfate/Sulfate, TOC, Dissolved Manganese

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260	Bromide/Nitrate	Sulfate/Sulfate	TOC	Dissolved Manganese
IRZMW002_WG010505_01	1/5/05	0904		✓			✓	✓		✓		✓	X	X	X	X	X
CMW026-WG010505_01	1/5/05	1046		✓			✓	✓		✓		✓	X	X	X	X	X
IRZCMW003_WG010505_01	1/5/05	1143		✓			✓	✓		✓		✓	X	X	X	X	X
CMW001_WG010505_01	1/5/05	1330		✓			✓	✓		✓		✓	X	X	X	X	X
IRZMW004_WG010505_01	1/5/05	1438		✓			✓	✓		✓		✓	X	X	X	X	X
IRZB0095_WG010505_01	1/5/05	1541		✓			✓	✓		✓		✓	X	X	X	X	X
IRZB0081_WG010505_01	1/5/05	1649		✓			✓	✓		✓		✓	X	X	X	X	X
IRZMW005_WG010505_01	1/5/05	1749		✓			✓	✓		✓		✓	X	X	X	X	X
TB_AR010505_01	1/5/05	—		✓						✓			X				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	1/5/05	2004	1. Received By	01-05-05	2004
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6

BOE-C6-0011306

SEVERN TRENT STL

Analytical Report

BOE-C6-0011307

EXECUTIVE SUMMARY - Detection Highlights

E5A060144

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZCMW002_WG010505_01 01/05/05 09:34 001				
Manganese - DISSOLVED	0.0012 B	0.015	mg/L	SW846 6010B
Trichloroethene	5200	120	ug/L	SW846 8260B
Sulfate	61.6	5.0	mg/L	MCAWW 300.0A
Nitrate as N	3.2	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	2.2	1.0	mg/L	SW846 9060
Bromide	0.37 B	0.50	mg/L	MCAWW 300.0A
CMW026_WG010505_01 01/05/05 10:46 002				
Manganese - DISSOLVED	0.035	0.015	mg/L	SW846 6010B
Acetone	6.6 J	10	ug/L	SW846 8260B
1,1-Dichloroethene	3.8	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	17	1.0	ug/L	SW846 8260B
Trichloroethene	6.5	1.0	ug/L	SW846 8260B
Sulfate	5.0	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.20	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	2.7	1.0	mg/L	SW846 9060
IRZCMW003_WG010505_01 01/05/05 11:43 003				
Manganese - DISSOLVED	0.016	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	46 J	100	ug/L	SW846 8260B
Trichloroethene	4300	100	ug/L	SW846 8260B
Sulfate	52.6	5.0	mg/L	MCAWW 300.0A
Nitrate as N	2.1	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	2.7	1.0	mg/L	SW846 9060
Bromide	0.38 B	0.50	mg/L	MCAWW 300.0A
CMW001_WG010505_01 01/05/05 13:30 004				
Manganese - DISSOLVED	0.34	0.015	mg/L	SW846 6010B
Chlorobenzene	12000	250	ug/L	SW846 8260B
Sulfate	156	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	27.5	1.0	mg/L	SW846 9060
Bromide	0.23 B	0.50	mg/L	MCAWW 300.0A

(Continued on next page)

BOE-C6-0011308

EXECUTIVE SUMMARY - Detection Highlights

E5A060144

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW004_WG010505_01 01/05/05 14:38	**005**			
Manganese - DISSOLVED	0.0028 B	0.015	mg/L	SW846 6010B
Chloroform	74 J	100	ug/L	SW846 8260B
1,1-Dichloroethene	71 J	100	ug/L	SW846 8260B
Trichloroethene	5600	100	ug/L	SW846 8260B
Sulfate	42.1	1.0	mg/L	MCAWW 300.0A
Nitrate as N	7.3	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.8	1.0	mg/L	SW846 9060
Bromide	0.80	0.50	mg/L	MCAWW 300.0A
IRZB0095_WG010505_01 01/05/05 15:41	**006**			
Manganese - DISSOLVED	5.7	0.015	mg/L	SW846 6010B
2-Butanone	110 J	120	ug/L	SW846 8260B
Chloroform	16 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	11 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	9.0 J	25	ug/L	SW846 8260B
Methylene chloride	9.4 J	25	ug/L	SW846 8260B
Tetrachloroethene	9.0 J	25	ug/L	SW846 8260B
Trichloroethene	1000	25	ug/L	SW846 8260B
Sulfate	45.5	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	1890	100	mg/L	SW846 9060
Bromide	17.8	5.0	mg/L	MCAWW 300.0A
IRZB0081_WG010505_01 01/05/05 16:49	**007**			
Manganese - DISSOLVED	5.1	0.015	mg/L	SW846 6010B
Acetone	240 J	500	ug/L	SW846 8260B
2-Butanone	750	250	ug/L	SW846 8260B
1,1-Dichloroethene	17 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	100	50	ug/L	SW846 8260B
Trichloroethene	1900	50	ug/L	SW846 8260B
Sulfate	104	20.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	6140	500	mg/L	SW846 9060
Bromide	746	100	mg/L	MCAWW 300.0A
IRZMW005_WG010505_01 01/05/05 17:49	**008**			
Manganese - DISSOLVED	2.6	0.015	mg/L	SW846 6010B
Chloroform	8.3 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	12 J	25	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5A060144

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW005_WG010505_01 01/05/05 17:49	**008**			
cis-1,2-Dichloroethene	1200	25	ug/L	SW846 8260B
Trichloroethene	110	25	ug/L	SW846 8260B
Sulfate	23.4	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	56.8	2.0	mg/L	SW846 9060
Bromide	0.89	0.50	mg/L	MCAWW 300.0A

METHODS SUMMARY

E5A060144

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Bromide	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5A060144

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G1650	001	IRZCMW002_WG010505_01	01/05/05	09:34
G166E	002	CMW026_WG010505_01	01/05/05	10:46
G166L	003	IRZCMW003_WG010505_01	01/05/05	11:43
G166P	004	CMW001_WG010505_01	01/05/05	13:30
G166Q	005	IRZMW004_WG010505_01	01/05/05	14:38
G166V	006	IRZB0095_WG010505_01	01/05/05	15:41
G166X	007	IRZB0081_WG010505_01	01/05/05	16:49
G1664	008	IRZMW005_WG010505_01	01/05/05	17:49
G167A	009	TB_AR010505	01/05/05	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

BOE-C6-0011312

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-001 **Work Order #...:** G16501AH **Matrix.....:** WG
Date Sampled...: 01/05/05 09:34 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 19:57
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	ND	120	ug/L	38
cis-1,2-Dichloroethene	ND	120	ug/L	38
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-001 **Work Order #...:** G16501AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**5200**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	80	(65 - 135)
Toluene-d8	100	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-001 **Matrix.....:** WG
Date Sampled...: 01/05/05 09:34 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**0.0012 B**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G16501AF**
		Dilution Factor: 1		Analysis Time..: 18:54	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-001 **Work Order #...:** G1650 **Matrix.....:** WG
Date Sampled...: 01/05/05 09:34 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.37 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006183**
		Dilution Factor: 1		Analysis Time..: 06:40	Analyst ID.....: 000022	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 0.10	
Nitrate as N	**3.2**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006062**
		Dilution Factor: 1		Analysis Time..: 06:40	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.030	
Sulfate	**61.6**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 5		Analysis Time..: 11:41	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 1.0	
Total Organic Carbon (TOC)	**2.2**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-002 **Work Order #...:** G166E1AH **Matrix.....:** WG
Date Sampled...: 01/05/05 10:46 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 19:36
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**6.6 J**	**10**	**ug/L**	**3.0**
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	**3.8**	**1.0**	**ug/L**	**0.30**
cis-1,2-Dichloroethene	**17**	**1.0**	**ug/L**	**0.30**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-002 **Work Order #...:** G166E1AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	**6.5**	**1.0**	**ug/L**	**0.30**
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	78	(65 - 135)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-002 **Matrix.....:** WG
Date Sampled...: 01/05/05 10:46 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**0.035**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G166E1AF**
		Dilution Factor: 1		Analysis Time..: 19:24	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW026_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-002 **Work Order #...:** G166E **Matrix.....:** WG
Date Sampled...: 01/05/05 10:46 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	ND	0.50	mg/L	MCAWW 300.0A	01/06/05	5006183
		Dilution Factor: 1		Analysis Time..: 06:57	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 0.10	
Nitrate as N	**0.20**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006062**
		Dilution Factor: 1		Analysis Time..: 06:57	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.030	
Sulfate	**5.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 1		Analysis Time..: 06:57	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 0.20	
Total Organic Carbon (TOC)	**2.7**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-003 **Work Order #...:** G166L1AH **Matrix.....:** WG
Date Sampled...: 01/05/05 11:43 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 20:20
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**46 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-003 **Work Order #...:** G166L1AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**4300**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	77	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-003 **Matrix.....:** WG
Date Sampled...: 01/05/05 11:43 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**0.016**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G166L1AF**
		Dilution Factor: 1		Analysis Time..: 19:45	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW003_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-003 **Work Order #...:** G166L **Matrix.....:** WG
Date Sampled...: 01/05/05 11:43 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.38 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006183**
		Dilution Factor: 1		Analysis Time..: 07:13	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 0.10	
Nitrate as N	**2.1**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006062**
		Dilution Factor: 1		Analysis Time..: 07:13	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.030	
Sulfate	**52.6**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 5		Analysis Time..: 11:59	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 1.0	
Total Organic Carbon (TOC)	**2.7**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-004 **Work Order #...:** G166P1AH **Matrix.....:** WG
Date Sampled...: 01/05/05 13:30 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 22:27
Dilution Factor: 250
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2500	ug/L	750
Benzene	ND	250	ug/L	75
Bromobenzene	ND	250	ug/L	75
Bromochloromethane	ND	250	ug/L	75
Bromoform	ND	250	ug/L	75
Bromomethane	ND	500	ug/L	250
2-Butanone	ND	1200	ug/L	750
n-Butylbenzene	ND	250	ug/L	75
sec-Butylbenzene	ND	250	ug/L	75
tert-Butylbenzene	ND	250	ug/L	50
Carbon disulfide	ND	250	ug/L	75
Carbon tetrachloride	ND	250	ug/L	75
Chlorobenzene	**12000**	**250**	**ug/L**	**75**
Dibromochloromethane	ND	250	ug/L	100
Bromodichloromethane	ND	250	ug/L	75
Chloroethane	ND	500	ug/L	75
Chloroform	ND	250	ug/L	75
Chloromethane	ND	500	ug/L	75
2-Chlorotoluene	ND	250	ug/L	75
4-Chlorotoluene	ND	250	ug/L	75
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	180
1,2-Dibromoethane (EDB)	ND	250	ug/L	75
Dibromomethane	ND	250	ug/L	100
1,2-Dichlorobenzene	ND	250	ug/L	75
1,3-Dichlorobenzene	ND	250	ug/L	75
1,4-Dichlorobenzene	ND	250	ug/L	75
Dichlorodifluoromethane	ND	500	ug/L	100
1,1-Dichloroethane	ND	250	ug/L	50
1,2-Dichloroethane	ND	250	ug/L	100
1,1-Dichloroethene	ND	250	ug/L	75
cis-1,2-Dichloroethene	ND	250	ug/L	75
trans-1,2-Dichloroethene	ND	250	ug/L	75
1,2-Dichloropropane	ND	250	ug/L	75
1,3-Dichloropropane	ND	250	ug/L	100
2,2-Dichloropropane	ND	250	ug/L	75
1,1-Dichloropropene	ND	250	ug/L	75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-004 **Work Order #...:** G166P1AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	250	ug/L	75
trans-1,3-Dichloropropene	ND	250	ug/L	120
Ethylbenzene	ND	250	ug/L	50
Hexachlorobutadiene	ND	250	ug/L	75
2-Hexanone	ND	1200	ug/L	750
Isopropylbenzene	ND	250	ug/L	75
p-Isopropyltoluene	ND	250	ug/L	75
Methylene chloride	ND	250	ug/L	75
4-Methyl-2-pentanone	ND	1200	ug/L	750
Methyl tert-butyl ether	ND	250	ug/L	120
Naphthalene	ND	250	ug/L	120
n-Propylbenzene	ND	250	ug/L	100
Styrene	ND	250	ug/L	75
1,1,1,2-Tetrachloroethane	ND	250	ug/L	75
1,1,2,2-Tetrachloroethane	ND	250	ug/L	100
Tetrachloroethene	ND	250	ug/L	75
Toluene	ND	250	ug/L	75
1,2,3-Trichlorobenzene	ND	250	ug/L	100
1,2,4-Trichloro-benzene	ND	250	ug/L	75
1,1,1-Trichloroethane	ND	250	ug/L	50
1,1,2-Trichloroethane	ND	250	ug/L	75
Trichloroethene	ND	250	ug/L	75
Trichlorofluoromethane	ND	500	ug/L	75
1,2,3-Trichloropropane	ND	250	ug/L	100
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	100
1,2,4-Trimethylbenzene	ND	250	ug/L	75
1,3,5-Trimethylbenzene	ND	250	ug/L	50
Vinyl chloride	ND	250	ug/L	75
m-Xylene & p-Xylene	ND	250	ug/L	120
o-Xylene	ND	250	ug/L	50
Xylenes (total)	ND	250	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	83	(65 - 135)
Toluene-d8	102	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-004 **Matrix.....:** WG
Date Sampled...: 01/05/05 13:30 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**0.34**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G166P1AF**
		Dilution Factor: 1		Analysis Time..: 19:53	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-004 **Work Order #...:** G166P **Matrix.....:** WG
Date Sampled...: 01/05/05 13:30 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.23 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006183**
		Dilution Factor: 1		Analysis Time..: 07:30	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 0.10	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	01/06/05	5006062
		Dilution Factor: 1		Analysis Time..: 07:30	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.030	
Sulfate	**156**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 5		Analysis Time..: 12:49	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 1.0	
Total Organic Carbon (TOC)	**27.5**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-005 **Work Order #...:** G166Q1AH **Matrix.....:** WG
Date Sampled...: 01/05/05 14:38 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/07/05
Prep Batch #...: 5007411 **Analysis Time..:** 00:15
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	**74 J**	**100**	**ug/L**	**30**
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**71 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-005 **Work Order #...:** G166Q1AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**5600**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	80	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-005 **Matrix.....:** WG
Date Sampled...: 01/05/05 14:38 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**0.0028 B**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G166Q1AF**
		Dilution Factor: 1		Analysis Time..: 20:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-005 **Work Order #...:** G166Q **Matrix.....:** WG
Date Sampled...: 01/05/05 14:38 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.80**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006183**
		Dilution Factor: 1		Analysis Time..: 07:47	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 0.10	
Nitrate as N	**7.3**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006062**
		Dilution Factor: 1		Analysis Time..: 07:47	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.030	
Sulfate	**42.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 1		Analysis Time..: 07:47	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 0.20	
Total Organic Carbon (TOC)	**3.8**	**1.0**	**mg/L**	**SW846 9060**	**01/07/05**	**5010216**
		Dilution Factor: 1		Analysis Time..: 20:27	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5010107	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-006 **Work Order #...:** G166V1AH **Matrix.....:** WG
Date Sampled...: 01/05/05 15:41 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 21:23
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	**110 J**	**120**	**ug/L**	**75**
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	**16 J**	**25**	**ug/L**	**7.5**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	ND	25	ug/L	5.0
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**11 J**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**9.0 J**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-006 **Work Order #...:** G166V1AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	**9.4 J**	**25**	**ug/L**	**7.5**
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	**9.0 J**	**25**	**ug/L**	**7.5**
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**1000**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	80	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-006 **Matrix.....:** WG
Date Sampled...: 01/05/05 15:41 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**5.7**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G166V1AF**
		Dilution Factor: 1		Analysis Time..: 20:08	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0095_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-006 **Work Order #...:** G166V **Matrix.....:** WG
Date Sampled...: 01/05/05 15:41 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**17.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006183**
		Dilution Factor: 10		Analysis Time..: 13:38	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 1.0	
Nitrate as N	ND G	1.0	mg/L	MCAWW 300.0A	01/06/05	5006062
		Dilution Factor: 10		Analysis Time..: 13:38	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.30	
Sulfate	**45.5**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 1		Analysis Time..: 08:03	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 0.20	
Total Organic Carbon (TOC)	**1890**	**100**	**mg/L**	**SW846 9060**	**01/07/05**	**5010216**
		Dilution Factor: 100		Analysis Time..: 20:27	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5010107	MDL.....: 40.0	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-007 **Work Order #...:** G166X1AH **Matrix.....:** WG
Date Sampled...: 01/05/05 16:49 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 21:44
Dilution Factor: 50
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**240 J**	**500**	**ug/L**	**150**
Benzene	ND	50	ug/L	15
Bromobenzene	ND	50	ug/L	15
Bromochloromethane	ND	50	ug/L	15
Bromoform	ND	50	ug/L	15
Bromomethane	ND	100	ug/L	50
2-Butanone	**750**	**250**	**ug/L**	**150**
n-Butylbenzene	ND	50	ug/L	15
sec-Butylbenzene	ND	50	ug/L	15
tert-Butylbenzene	ND	50	ug/L	10
Carbon disulfide	ND	50	ug/L	15
Carbon tetrachloride	ND	50	ug/L	15
Chlorobenzene	ND	50	ug/L	15
Dibromochloromethane	ND	50	ug/L	20
Bromodichloromethane	ND	50	ug/L	15
Chloroethane	ND	100	ug/L	15
Chloroform	ND	50	ug/L	15
Chloromethane	ND	100	ug/L	15
2-Chlorotoluene	ND	50	ug/L	15
4-Chlorotoluene	ND	50	ug/L	15
1,2-Dibromo-3-chloro-propane	ND	100	ug/L	35
1,2-Dibromoethane (EDB)	ND	50	ug/L	15
Dibromomethane	ND	50	ug/L	20
1,2-Dichlorobenzene	ND	50	ug/L	15
1,3-Dichlorobenzene	ND	50	ug/L	15
1,4-Dichlorobenzene	ND	50	ug/L	15
Dichlorodifluoromethane	ND	100	ug/L	20
1,1-Dichloroethane	ND	50	ug/L	10
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**17 J**	**50**	**ug/L**	**15**
cis-1,2-Dichloroethene	**100**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	ND	50	ug/L	15
1,2-Dichloropropane	ND	50	ug/L	15
1,3-Dichloropropane	ND	50	ug/L	20
2,2-Dichloropropane	ND	50	ug/L	15
1,1-Dichloropropene	ND	50	ug/L	15

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-007 **Work Order #...:** G166X1AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	50	ug/L	15
trans-1,3-Dichloropropene	ND	50	ug/L	25
Ethylbenzene	ND	50	ug/L	10
Hexachlorobutadiene	ND	50	ug/L	15
2-Hexanone	ND	250	ug/L	150
Isopropylbenzene	ND	50	ug/L	15
p-Isopropyltoluene	ND	50	ug/L	15
Methylene chloride	ND	50	ug/L	15
4-Methyl-2-pentanone	ND	250	ug/L	150
Methyl tert-butyl ether	ND	50	ug/L	25
Naphthalene	ND	50	ug/L	25
n-Propylbenzene	ND	50	ug/L	20
Styrene	ND	50	ug/L	15
1,1,1,2-Tetrachloroethane	ND	50	ug/L	15
1,1,2,2-Tetrachloroethane	ND	50	ug/L	20
Tetrachloroethene	ND	50	ug/L	15
Toluene	ND	50	ug/L	15
1,2,3-Trichlorobenzene	ND	50	ug/L	20
1,2,4-Trichloro-benzene	ND	50	ug/L	15
1,1,1-Trichloroethane	ND	50	ug/L	10
1,1,2-Trichloroethane	ND	50	ug/L	15
Trichloroethene	**1900**	**50**	**ug/L**	**15**
Trichlorofluoromethane	ND	100	ug/L	15
1,2,3-Trichloropropane	ND	50	ug/L	20
1,1,2-Trichlorotrifluoro-ethane	ND	50	ug/L	20
1,2,4-Trimethylbenzene	ND	50	ug/L	15
1,3,5-Trimethylbenzene	ND	50	ug/L	10
Vinyl chloride	ND	50	ug/L	15
m-Xylene & p-Xylene	ND	50	ug/L	25
o-Xylene	ND	50	ug/L	10
Xylenes (total)	ND	50	ug/L	40

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	82	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-007 **Matrix.....:** WG
Date Sampled...: 01/05/05 16:49 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**5.1**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G166X1AF**
		Dilution Factor: 1		Analysis Time..: 20:16	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZB0081_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-007 **Work Order #...:** G166X **Matrix.....:** WG
Date Sampled...: 01/05/05 16:49 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**746**	**100**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006183**
		Dilution Factor: 200		Analysis Time..: 13:55	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 20.0	
Nitrate as N	ND G	2.0	mg/L	MCAWW 300.0A	01/06/05	5006062
		Dilution Factor: 20		Analysis Time..: 14:11	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.60	
Sulfate	**104**	**20.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 20		Analysis Time..: 14:11	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 4.0	
Total Organic Carbon (TOC)	**6140**	**500**	**mg/L**	**SW846 9060**	**01/07/05**	**5010216**
		Dilution Factor: 500		Analysis Time..: 20:27	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5010107	MDL.....: 200	

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-008 **Work Order #...:** G16641AH **Matrix.....:** WG
Date Sampled...: 01/05/05 17:49 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 22:05
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	ND	120	ug/L	75
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	**8.3 J**	**25**	**ug/L**	**7.5**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	ND	25	ug/L	5.0
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**12 J**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**1200**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG010505_01

GC/MS Volatiles

Lot-Sample #...: E5A060144-008 **Work Order #...:** G16641AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**110**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG010505_01

DISSOLVED Metals

Lot-Sample #...: E5A060144-008 **Matrix.....:** WG
Date Sampled...: 01/05/05 17:49 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5006318						
Manganese	**2.6**	**0.015**	**mg/L**	**SW846 6010B**	**01/06-01/07/05**	**G16641AF**
		Dilution Factor: 1		Analysis Time..: 20:21	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5006182	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW005_WG010505_01

General Chemistry

Lot-Sample #...: E5A060144-008 **Work Order #...:** G1664 **Matrix.....:** WG
Date Sampled...: 01/05/05 17:49 **Date Received..:** 01/05/05 20:04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.89**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006183**
		Dilution Factor: 1		Analysis Time..: 09:29	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5006119	MDL.....: 0.10	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	01/06/05	5006062
		Dilution Factor: 1		Analysis Time..: 09:29	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5006121	MDL.....: 0.030	
Sulfate	**23.4**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/06/05**	**5006184**
		Dilution Factor: 1		Analysis Time..: 09:29	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5006120	MDL.....: 0.20	
Total Organic Carbon (TOC)	**56.8**	**2.0**	**mg/L**	**SW846 9060**	**01/07/05**	**5010216**
		Dilution Factor: 2		Analysis Time..: 20:27	Analyst ID.....: 9999950	
		Instrument ID..: W08		MS Run #.....: 5010107	MDL.....: 0.80	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR010505

GC/MS Volatiles

Lot-Sample #...: E5A060144-009 **Work Order #...:** G167A1AA **Matrix.....:** WQ
Date Sampled...: 01/05/05 **Date Received..:** 01/05/05 20:04 **MS Run #.....:** 5007241
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 19:15
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR010505

GC/MS Volatiles

Lot-Sample #...: E5A060144-009 **Work Order #...:** G167A1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	77	(65 - 135)
Toluene-d8	102	(80 - 130)

SEVERN TRENT STL

QA/QC

BOE-C6-0011347

QC DATA ASSOCIATION SUMMARY

E5A060144

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182
002	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182
003	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182
004	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182
005	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5010216	5010107
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182
006	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5010216	5010107
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182

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BOE-C6-0011348

QC DATA ASSOCIATION SUMMARY

E5A060144

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
007	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5010216	5010107
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182
008	WG	MCAWW 300.0A		5006184	5006120
	WG	MCAWW 300.0A		5006062	5006121
	WG	SW846 9060		5010216	5010107
	WG	MCAWW 300.0A		5006183	5006119
	WG	SW846 8260B		5007411	5007241
	WG	SW846 6010B		5006318	5006182
009	WQ	SW846 8260B		5007411	5007241

BOE-C6-0011349

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A060144 **Work Order #...:** G19631AA **Matrix.....:** WATER
MB Lot-Sample #: E5A070000-411

Prep Date.....: 01/06/05 **Analysis Time..:** 18:39
Analysis Date..: 01/06/05 **Prep Batch #...:** 5007411 **Instrument ID..:** MSR
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A060144 **Work Order #...:** G19631AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	77	(65 - 135)
Toluene-d8	101	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: E5A060144 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5A060000-318 **Prep Batch #...:** 5006318						
Manganese	ND	0.015	mg/L	SW846 6010B	01/06-01/07/05	G17WX1AA
		Dilution Factor: 1				
		Analysis Time..: 18:37		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5A060144 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G169N1AA		MB Lot-Sample #:	E5A060000-183	
	ND	0.50	mg/L	MCAWW 300.0A	01/06/05	5006183
		Dilution Factor: 1				
		Analysis Time..: 06:24		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: G169W1AA		MB Lot-Sample #:	E5A060000-062	
	ND	0.10	mg/L	MCAWW 300.0A	01/06/05	5006062
		Dilution Factor: 1				
		Analysis Time..: 06:24		Analyst ID.....: 000022	Instrument ID..: W01	
Sulfate		Work Order #: G169P1AA		MB Lot-Sample #:	E5A060000-184	
	ND	1.0	mg/L	MCAWW 300.0A	01/06/05	5006184
		Dilution Factor: 1				
		Analysis Time..: 06:24		Analyst ID.....: 000022	Instrument ID..: W01	
Total Organic Carbon (TOC)		Work Order #: G180W1AA		MB Lot-Sample #:	E5A060000-439	
	ND	1.0	mg/L	SW846 9060	01/06/05	5006439
		Dilution Factor: 1				
		Analysis Time..: 18:11		Analyst ID.....: 999995	Instrument ID..: W08	
Total Organic Carbon (TOC)		Work Order #: G2CJA1AA		MB Lot-Sample #:	E5A100000-216	
	ND	1.0	mg/L	SW846 9060	01/07/05	5010216
		Dilution Factor: 1				
		Analysis Time..: 20:27		Analyst ID.....: 999995	Instrument ID..: W08	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A060144 **Work Order #...:** G19631AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A070000-411
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 17:32
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**93**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**90**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**103**	**(65 - 135)**	**SW846 8260B**
Toluene	**96**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**93**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	80	(65 - 135)
Toluene-d8	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A060144 **Work Order #...:** G19631AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A070000-411
Prep Date.....: 01/06/05 **Analysis Date..:** 01/06/05
Prep Batch #...: 5007411 **Analysis Time..:** 17:32
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.33**	**ug/L**	**93**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.02**	**ug/L**	**90**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.3**	**ug/L**	**103**	**SW846 8260B**
Toluene	**10.0**	**9.58**	**ug/L**	**96**	**SW846 8260B**
Trichloroethene	**10.0**	**9.27**	**ug/L**	**93**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	80	(65 - 135)
Toluene-d8	105	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A060144 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#:	E5A060000-318	**Prep Batch #...:** 5006318			
Manganese	96	(85 - 120)	SW846 6010B	01/06-01/07/05	G17WX1AC

Dilution Factor: 1 Analysis Time..: 18:43 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A060144 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A060000-318 **Prep Batch #...:** 5006318							
Manganese	0.500	0.482	mg/L	96	SW846 6010B	01/06-01/07/05	G17WX1AC

Dilution Factor: 1 Analysis Time..: 18:43 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A060144 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G169N1AC	LCS Lot-Sample#: E5A060000-183		
	102	(90 - 110)	MCAWW 300.0A	01/06/05	5006183
		Dilution Factor: 1	Analysis Time..: 06:07	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: G169W1AC	LCS Lot-Sample#: E5A060000-062		
	103	(90 - 110)	MCAWW 300.0A	01/06/05	5006062
		Dilution Factor: 1	Analysis Time..: 06:07	Analyst ID.....: 000022	
		Instrument ID..: W01			
Sulfate		Work Order #: G169P1AC	LCS Lot-Sample#: E5A060000-184		
	103	(90 - 110)	MCAWW 300.0A	01/06/05	5006184
		Dilution Factor: 1	Analysis Time..: 06:07	Analyst ID.....: 000022	
		Instrument ID..: W01			
Total Organic Carbon (TOC)		Work Order #: G180W1AC	LCS Lot-Sample#: E5A060000-439		
	93	(85 - 115)	SW846 9060	01/06/05	5006439
		Dilution Factor: 1	Analysis Time..: 18:11	Analyst ID.....: 999995	
		Instrument ID..: W08			
Total Organic Carbon (TOC)		Work Order #: G2CJA1AC	LCS Lot-Sample#: E5A100000-216		
	97	(85 - 115)	SW846 9060	01/07/05	5010216
		Dilution Factor: 1	Analysis Time..: 20:27	Analyst ID.....: 999995	
		Instrument ID..: W08			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0011358

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A060144 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			Work Order #: G169N1AC LCS Lot-Sample#: E5A060000-183				
	5.00	5.09	mg/L	102	MCAWW 300.0A	01/06/05	5006183
			Dilution Factor: 1		Analysis Time..: 06:07	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: G169W1AC LCS Lot-Sample#: E5A060000-062				
	5.00	5.16	mg/L	103	MCAWW 300.0A	01/06/05	5006062
			Dilution Factor: 1		Analysis Time..: 06:07	Analyst ID.....: 000022	
			Instrument ID..: W01				
Sulfate			Work Order #: G169P1AC LCS Lot-Sample#: E5A060000-184				
	25.0	25.8	mg/L	103	MCAWW 300.0A	01/06/05	5006184
			Dilution Factor: 1		Analysis Time..: 06:07	Analyst ID.....: 000022	
			Instrument ID..: W01				
Total Organic Carbon (TOC)			Work Order #: G180W1AC LCS Lot-Sample#: E5A060000-439				
	25.0	23.2	mg/L	93	SW846 9060	01/06/05	5006439
			Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 999995	
			Instrument ID..: W08				
Total Organic Carbon (TOC)			Work Order #: G2CJA1AC LCS Lot-Sample#: E5A100000-216				
	25.0	24.3	mg/L	97	SW846 9060	01/07/05	5010216
			Dilution Factor: 1		Analysis Time..: 20:27	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5A060144	**Work Order #...:**	G166L1AJ-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5A060144-003		G166L1AK-MSD		
Date Sampled...:	01/05/05 11:43	**Date Received..:**	01/05/05 20:04	**MS Run #.....:**	5007241
Prep Date.....:	01/06/05	**Analysis Date..:**	01/07/05		
Prep Batch #...:	5007411	**Analysis Time..:**	02:03		
Dilution Factor:	100	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**91**	**(75 - 125)**			**SW846 8260B**
	92	**(75 - 125)**	**0.94**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**88**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**0.35**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**98**	**(65 - 135)**			**SW846 8260B**
	99	**(65 - 135)**	**0.96**	**(0-25)**	**SW846 8260B**
Toluene	**93**	**(75 - 125)**			**SW846 8260B**
	93	**(75 - 125)**	**0.14**	**(0-25)**	**SW846 8260B**
Trichloroethene	**82**	**(75 - 135)**			**SW846 8260B**
	83	**(75 - 135)**	**0.15**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	81	(65 - 135)
	81	(65 - 135)
Toluene-d8	102	(80 - 130)
	102	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5A060144	**Work Order #...:**	G166L1AJ-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5A060144-003		G166L1AK-MSD		
Date Sampled...:	01/05/05 11:43	**Date Received..:**	01/05/05 20:04	**MS Run #.....:**	5007241
Prep Date.....:	01/06/05	**Analysis Date..:**	01/07/05		
Prep Batch #...:	5007411	**Analysis Time..:**	02:03		
Dilution Factor:	100	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**1000**	**908**	**ug/L**	**91**		**SW846 8260B**
	ND	**1000**	**916**	**ug/L**	**92**	**0.94**	**SW846 8260B**
Chlorobenzene	**ND**	**1000**	**878**	**ug/L**	**88**		**SW846 8260B**
	ND	**1000**	**874**	**ug/L**	**87**	**0.35**	**SW846 8260B**
1,1-Dichloroethene	**46**	**1000**	**1030**	**ug/L**	**98**		**SW846 8260B**
	46	**1000**	**1040**	**ug/L**	**99**	**0.96**	**SW846 8260B**
Toluene	**ND**	**1000**	**931**	**ug/L**	**93**		**SW846 8260B**
	ND	**1000**	**932**	**ug/L**	**93**	**0.14**	**SW846 8260B**
Trichloroethene	**4300**	**1000**	**5090**	**ug/L**	**82**		**SW846 8260B**
	4300	**1000**	**5100**	**ug/L**	**83**	**0.15**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	81	(65 - 135)
	81	(65 - 135)
Toluene-d8	102	(80 - 130)
	102	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A060144 **Matrix.....:** WG
Date Sampled...: 01/05/05 09:34 **Date Received..:** 01/05/05 20:04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A060144-001 **Prep Batch #...:** 5006318							
Manganese	94	(85 - 120)			SW846 6010B	01/06-01/07/05	G16501AQ
	94	(85 - 120)	0.25	(0-20)	SW846 6010B	01/06-01/07/05	G16501AR

Dilution Factor: 1
Analysis Time..: 19:08 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5006182

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A060144 **Matrix.....:** WG
Date Sampled...: 01/05/05 09:34 **Date Received..:** 01/05/05 20:04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A060144-001 **Prep Batch #...:** 5006318									
Manganese									
	0.0012	0.500	0.473	mg/L	94		SW846 6010B	01/06-01/07/05	G16501AQ
	0.0012	0.500	0.472	mg/L	94	0.25	SW846 6010B	01/06-01/07/05	G16501AR

Dilution Factor: 1
Analysis Time..: 19:08 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5006182

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A060144 **Matrix.....:** WG
Date Sampled...: 01/05/05 09:34 **Date Received..:** 01/05/05 20:04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: G16501AJ-MS/G16501AK-MSD				MS Lot-Sample #: E5A060144-001	
	102	(80 - 120)			MCAWW 300.0A	01/06/05	5006183
	97	(80 - 120)	4.4	(0-20)	MCAWW 300.0A	01/06/05	5006183
		Dilution Factor: 5					
		Analysis Time..: 12:16			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5006119					
Nitrate as N		WO#: G16501AN-MS/G16501AP-MSD				MS Lot-Sample #: E5A060144-001	
	100	(80 - 120)			MCAWW 300.0A	01/06/05	5006062
	96	(80 - 120)	3.3	(0-20)	MCAWW 300.0A	01/06/05	5006062
		Dilution Factor: 5					
		Analysis Time..: 12:16			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5006121					
Sulfate		WO#: G16501AL-MS/G16501AM-MSD				MS Lot-Sample #: E5A060144-001	
	106	(80 - 120)			MCAWW 300.0A	01/06/05	5006184
	102	(80 - 120)	1.9	(0-20)	MCAWW 300.0A	01/06/05	5006184
		Dilution Factor: 5					
		Analysis Time..: 12:16			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5006120					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0011364

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A060144 **Matrix.....:** WG
Date Sampled...: 01/05/05 09:34 **Date Received..:** 01/05/05 20:04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: G16501AJ-MS/G16501AK-MSD				MS Lot-Sample #: E5A060144-001		
	0.37	12.5	13.1	mg/L	102		MCAWW 300.0A	01/06/05	5006183
	0.37	12.5	12.5	mg/L	97	4.4	MCAWW 300.0A	01/06/05	5006183
			Dilution Factor: 5						
			Analysis Time..: 12:16		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5006119						
Nitrate as N			WO#: G16501AN-MS/G16501AP-MSD				MS Lot-Sample #: E5A060144-001		
	3.2	12.5	15.7	mg/L	100		MCAWW 300.0A	01/06/05	5006062
	3.2	12.5	15.2	mg/L	96	3.3	MCAWW 300.0A	01/06/05	5006062
			Dilution Factor: 5						
			Analysis Time..: 12:16		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5006121						
Sulfate			WO#: G16501AL-MS/G16501AM-MSD				MS Lot-Sample #: E5A060144-001		
	61.6	62.5	128	mg/L	106		MCAWW 300.0A	01/06/05	5006184
	61.6	62.5	125	mg/L	102	1.9	MCAWW 300.0A	01/06/05	5006184
			Dilution Factor: 5						
			Analysis Time..: 12:16		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5006120						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A060144 **Matrix.....:** WATER
Date Sampled...: 01/04/05 09:27 **Date Received..:** 01/04/05 18:42

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	WO#: G15C11AT-MS/G15C11AU-MSD MS Lot-Sample #: E5A050141-002						
	96	(85 - 115)			SW846 9060	01/07/05	5010216
	94	(85 - 115)	2.4	(0-20)	SW846 9060	01/07/05	5010216
	Dilution Factor: 1						
	Analysis Time..: 20:27 Instrument ID..: W08 Analyst ID.....: 999995						
	MS Run #.....: 5010107						
Total Organic Carbon (TOC)	WO#: G15C61AJ-MS/G15C61AK-MSD MS Lot-Sample #: E5A050141-006						
	93	(85 - 115)			SW846 9060	01/06/05	5006439
	93	(85 - 115)	0.45	(0-20)	SW846 9060	01/06/05	5006439
	Dilution Factor: 1						
	Analysis Time..: 18:11 Instrument ID..: W08 Analyst ID.....: 999995						
	MS Run #.....: 5007128						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A060144 **Matrix.....:** WATER
Date Sampled...: 01/04/05 09:27 **Date Received..:** 01/04/05 18:42

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			WO#: G15C11AT-MS/G15C11AU-MSD				MS Lot-Sample #: E5A050141-002		
	3.1	25.0	27.2	mg/L	96		SW846 9060	01/07/05	5010216
	3.1	25.0	26.5	mg/L	94	2.4	SW846 9060	01/07/05	5010216
			Dilution Factor: 1						
			Analysis Time..: 20:27		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5010107						
Total Organic Carbon (TOC)			WO#: G15C61AJ-MS/G15C61AK-MSD				MS Lot-Sample #: E5A050141-006		
	3.4	25.0	26.6	mg/L	93		SW846 9060	01/06/05	5006439
	3.4	25.0	26.7	mg/L	93	0.45	SW846 9060	01/06/05	5006439
			Dilution Factor: 1						
			Analysis Time..: 18:11		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5007128						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

January 19, 2005

STL LOT NUMBER: E5A050141
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

David Poley
ARCADIS Geraghty & Miller, Inc
1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on January 4, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 313.

Sincerely,

Diane Suzuki
Customer Service Manager

CC: Project File

000062

Page 1 of _____ total pages in this report.

LOT NUMBER E5A050141

Nonconformance 05-11102

Affected Samples:
E5A050141 (2): IRZMW002B_WG010405_01
E5A050141 (3): IRZMW001A_WG010405_01
E5A050141 (4): IRZMW001B_WG010405_01
E5A050141 (5): IRZMW003A_WG010405_01
E5A050141 (6): IRZMW003B_WG010405_01
E5A050141 (7): IRZMW002A_WG010405_01
E5A050141 (8): IRZCMW001_WG010405_01

Affected Methods:
376.2, 8260B

Case Narrative:
Sulfate and Dissolved Manganese are on the sample labels, but not listed on the COC. Client confirmed that those tests were needed and sulfide was not.

Nonconformance 05-11127

Affected Samples:
E5A050141 (2): IRZMW002B_WG010405_01
E5A050141 (3): IRZMW001A_WG010405_01
E5A050141 (4): IRZMW001B_WG010405_01
E5A050141 (5): IRZMW003A_WG010405_01
E5A050141 (6): IRZMW003B_WG010405_01
E5A050141 (7): IRZMW002A_WG010405_01
E5A050141 (8): IRZCMW001_WG010405_01

Affected Methods:
6010B Dissolved metals

Case Narrative:
Samples were received unfiltered and unpreserved for Dissolved Metals Analysis. Samples were filtered and preserved to a pH<2 prior to metals digestion. Pre-preserved bottles with Nitric Acid were used as containers.

E5A050141

[redacted]

hain of ustody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

-4124 (0901)

ent: ARCADIS	Project Manager: David Poley	Date: 1/4/05	Chain of Custody Number: 181469
dress: 400 N Harbor Blvd. Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0442 FAX (714) 278-0051	Lab Number: E5A050141	Page 1 of 1
y: Fullerton; State: CA; Zip Code: 92835	Site Contact: H. Hernandez; Lab Contact:		
oject Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.			

Sample I.D. No. and Description (ontainers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260	Bromide/Nitrate	Sulfide	TOC	Special Instructions/ Conditions of Receipt
B-ARC10305-01	1/3/05	—		✓						✓			X				
RZMW002B_WG010405-01	1/4/05	0927		✓			✓	✓		✓		✓	X	X	X	X	
RZMW001A-WG010405-01	1/4/05	1054		✓			✓	✓		✓		✓	X	X	X	X	
RZMW001B_WG010405_01	1/4/05	1250		✓			✓	✓		✓		✓	X	X	X	X	
RZMW003A_WG010405_01	1/4/05	1351		✓			✓	✓		✓		✓	X	X	X	X	
RZMW003B_WG010405_01	1/4/05	1443		✓			✓	✓		✓		✓	X	X	X	X	
RZMW002A-WG010405-01	1/4/05	1543		✓			✓	✓		✓		✓	X	X	X	X	
RZMW001_WG010405-01	1/4/05	1633		✓			✓	✓		✓		✓	X	X	X	X	

ossible Hazard Identification:] Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

urn Around Time Required:] 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

Relinquished By	Date: 1/4/05	Time: 1842	1. Received By	Date: 01-04-05	Time: 1842
Relinquished By	Date	Time	2. Received By	Date	Time
Relinquished By	Date	Time	3. Received By	Date	Time

omments

STRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

BOE-C6-0011370

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 01/05/05

LIMS Lot #: E5A050141 Quote #: _____

Client Name: ARCADIS Project: _____

Received by: D. S Date/Time Received: 01/04/05 @ 1942

Delivered by : ☑ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other _____

********** **Initial / Date**

Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None ..... BS 01/05/05

Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None .....

Custody Seal #(s): _____ ☑ No Seal #.....

Sampler Signature on COC ☐ Yes ☐ No ☒ N/A...

IR Gun # ____ Correction Factor ____ °C IR passed daily verification ☒ Yes ☐ No .....

Temperature - **BLANK** 2.6 °C +/- ___ CF = 2.4 °C 01/04/05

Temperature – **COOLER** (____ °C ____ °C ____ °C ____ °C) = _____ avg °C +/- ____ CF = _____ °C.... BS 01/05/05

Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒ N/A...

Sample Container(s): ☒ STL-LA ☐ Client .....

One COC/Multiple coolers: ☐ Yes- # coolers _____ All within temp criteria ☐ Yes ☐ No ☒ N/A....

One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒ N/A ...

Samples: ☒ Intact ☐ Broken ☐ Other _____ .....

pH measured: ☒ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A..

Anomalies: ☐ No ☒ Yes – complete CUR and Create NCM NCM # _____ .....

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☒ N/A....

Labeled by: BS Labeling checked ..... BS .....

****

Turn Around Time: ☐ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☒ NORMAL .....

Short-Hold Notification: ☐ pH ☒ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired...

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____ .....

_____ .....

_____ .....

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☒ N/A BS 01/05/05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5A-050141 **PROJECT RECEIPT CHECKLIST Cont'd**

Fraction	1	278												
VOAH/ *	3	3												
CPB		2												
~~[illegible]~~														
250 PB NaOH		1												
250 AGBS		1												(2

* VOA with headspace/bubbles < 6mm
H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A _____

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

_____

_____

_____

_____

_____

☐ Corrective Action Implemented:
☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____
☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: [signature] 01/05/05 **PM Review/Date:** [signature] 01.06.05

E5A050141

[redacted]

Chain of Custody Record

[redacted] **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ARCADIS

Project Manager: David Poley

Date: 1/4/05

Chain of Custody Number: 181469

Address: 1400 N Harbor Blvd. Suite 700

Telephone Number (Area Code)/Fax Number: (714) 278-0442 FAX (714) 278-0051

Lab Number: E5A050141

Page 1 of 1

City: Fullerton

State: CA

Zip Code: 92835

Site Contact: H. Hernandez

Lab Contact:

Carrier/Waybill Number:

Project Name and Location (State): Boeing C-6

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	8260	Tbutyl/Alcohol	Sulfide, Sulfate	TOC	D. Sieved Metals (Fe)
TB_AR010305_01	1/3/05	—		✓			[redacted]	[redacted]		✓		[redacted]	X				
IRZMW002B_WG010405_01	1/4/05	0927		✓			✓	✓		✓		✓	X	X	X	X	X
IRZMW001A_WG010405_01	1/4/05	1054		✓			✓	✓		✓		✓	X	X	X	X	X
IRZMW001B_WG010405_01	1/4/05	1250		✓			✓	✓		✓		✓	X	X	X	X	X
IRZMW003A_WG010405_01	1/4/05	1351		✓			✓	✓		✓		✓	X	X	X	X	X
IRZMW003B_WG010405_01	1/4/05	1443		✓			✓	✓		✓		✓	X	X	X	X	X
IRZMW002A_WG010405_01	1/4/05	1543		✓			✓	✓		✓		✓	X	X	X	X	X
IRCMW001_WG010405_01	1/4/05	1633		✓			✓	✓		✓		✓	X	X	X	X	X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	1/4/05	1842	1. Received By	01-04-05	1842
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

48-735

6

BOE-C6-0011373

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 01/05/05

LIMS Lot #: 55A050141 Quote #:

Client Name: ARCADIS Project:

Received by: D. S Date/Time Received: 01/04/05 @ 1842

Delivered by : ☑ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None	01/05/05
Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None	
Custody Seal #(s): ☑ No Seal #	
Sampler Signature on COC ☐ Yes ☐ No ☒ N/A	
IR Gun # ____ Correction Factor ____ °C IR passed daily verification ☒ Yes ☐ No	
Temperature - BLANK 2.6 °C +/- ___ CF = 2.4 °C	01/04/05
Temperature - COOLER (___ °C ___ °C ___ °C ___ °C) = ___ avg °C +/- ___ CF = ___ °C	01/05/05
Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒ N/A	
Sample Container(s): ☒ STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐ No ☒ N/A	
One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒ N/A	
Samples: ☑ Intact ☐ Broken ☐ Other	
pH measured: ☑ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A	
Anomalies: ☐ No ☑ Yes – complete CUR and Create NCM NCM #	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☒ N/A	
Labeled by: KB Labeling checked	

Turn Around Time: ☐ RUSH-24HR ☐ RUSH-48HR ☐ RUSH-72HR ☒ NORMAL

Short-Hold Notification: ☐ pH ☒ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____

_____

_____

********* LEAVE NO BLANK SPACES : USE N/A *********

Headspace Anomaly ☒ N/A 01/05/05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5A-050141 **PROJECT RECEIPT CHECKLIST Cont'd**

Fraction	1	2-9												
VOAH/*	3	3												
CPD		2												
~~[illegible]~~														
250 Thna 4		1												
250 AGBs		1												<2

* VOA with headspace/bubbles < 6mm
H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A _____

- **COOLERS**
  - ∟ Not Received (received COC only)
  - ∟ Leaking
  - ∟ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ∟ None
  - ∟ Not Intact
  - ∟ Other
- **CONTAINER(S)**
  - ∟ None
  - ∟ Not Intact
  - ∟ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ∟ Cooler Temp(s)
  - ∟ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ∟ Not relinquished by Client; No date/time relinquished
  - ∟ Incomplete information provided
  - ∟ Other ∟ COC not received – notify PM
- **CONTAINERS**
  - ∟ Leaking ∟ Voa Vials with Bubbles > 6mm
  - ∟ Broken
  - ∟ Extra
  - ∟ Without Labels
  - ∟ Other:
- **LABELS**
  - ∟ Not the same ID/info as in COC
  - ∟ Incomplete Information
  - ∟ Markings/Info illegible
  - ∟ Torn
- **SAMPLES**
  - ∟ Samples NOT RECEIVED but listed on COC
  - ∟ Samples received but NOT LISTED on COC
  - ∟ Logged based on Label Information
  - ∟ Logged based on info from other samples on COC
  - ∟ Logged according to Work Plan
  - ∟ Logged on HOLD UNTIL FURTHER NOTICE
  - ∟ Will be noted on COC—Client to send samples with new COC
  - ∟ Mislabeled as to tests, preservatives, etc.
  - ∟ Holding time expired – list sample ID and test
  - ∟ Improper container used
  - ∟ Not preserved/Improper preservative used
  - ∟ Improper pH _____ Lab to preserve sample and document
  - ∟ Insufficient quantities for analysis ∟ Other

Comments:

∟ Corrective Action Implemented:
∟ Client Informed: verbally on _____ By: _____ ∟ In writing on _____ By: _____
∟ Sample(s) on hold until: _____ ∟ Sample(s) processed "as is."

Logged by/Date: BB 01/05/05 PM Review/Date: [signature] 01.06.05

SEVERN TRENT STL

Analytical Report

BOE-C6-0011376

EXECUTIVE SUMMARY - Detection Highlights

E5A050141

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW002B_WG010405_01 01/04/05 09:27	**002**			
Manganese - DISSOLVED	0.018	0.015	mg/L	SW846 6010B
Acetone	8.8 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	1.7 J	2.5	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5.7	2.5	ug/L	SW846 8260B
Trichloroethene	170	2.5	ug/L	SW846 8260B
Sulfate	94.8	5.0	mg/L	MCAWW 300.0A
Nitrate as N	9.5	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.1	1.0	mg/L	SW846 9060
Bromide	0.64	0.50	mg/L	MCAWW 300.0A
IRZMW001A_WG010405_01 01/04/05 10:54	**003**			
Manganese - DISSOLVED	0.019	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	66 J	120	ug/L	SW846 8260B
Trichloroethene	6900	120	ug/L	SW846 8260B
Sulfate	62.9	5.0	mg/L	MCAWW 300.0A
Nitrate as N	9.4	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	6.1	1.0	mg/L	SW846 9060
Bromide	1.9	0.50	mg/L	MCAWW 300.0A
IRZMW001B_WG010405_01 01/04/05 12:50	**004**			
Manganese - DISSOLVED	0.0014 B	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	16 J	25	ug/L	SW846 8260B
Trichloroethene	1300	25	ug/L	SW846 8260B
Sulfate	93.9	5.0	mg/L	MCAWW 300.0A
Nitrate as N	7.2	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	6.3	1.0	mg/L	SW846 9060
Bromide	0.43 B	0.50	mg/L	MCAWW 300.0A
IRZMW003A_WG010405_01 01/04/05 13:51	**005**			
Manganese - DISSOLVED	0.10	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	97 J	250	ug/L	SW846 8260B
cis-1,2-Dichloroethene	120 J	250	ug/L	SW846 8260B
Trichloroethene	11000	250	ug/L	SW846 8260B
Sulfate	41.3	1.0	mg/L	MCAWW 300.0A
Nitrate as N	6.1	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	9.7	1.0	mg/L	SW846 9060

(Continued on next page)

BOE-C6-0011377

EXECUTIVE SUMMARY - Detection Highlights

E5A050141

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW003A_WG010405_01 01/04/05 13:51	**005**			
Bromide	1.4	0.50	mg/L	MCAWW 300.0A
IRZMW003B_WG010405_01 01/04/05 14:43	**006**			
Manganese - DISSOLVED	0.021	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	16	10	ug/L	SW846 8260B
Trichloroethene	620	10	ug/L	SW846 8260B
Sulfate	80.8	5.0	mg/L	MCAWW 300.0A
Nitrate as N	6.0	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	3.4	1.0	mg/L	SW846 9060
Bromide	0.59	0.50	mg/L	MCAWW 300.0A
IRZMW002A_WG010405_01 01/04/05 15:43	**007**			
Manganese - DISSOLVED	1.7	0.015	mg/L	SW846 6010B
1,1-Dichloroethene	62 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	460	100	ug/L	SW846 8260B
Trichloroethene	7100	100	ug/L	SW846 8260B
Sulfate	68.1	5.0	mg/L	MCAWW 300.0A
Nitrate as N	3.7	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	7.2	1.0	mg/L	SW846 9060
Bromide	1.8	0.50	mg/L	MCAWW 300.0A
IRZCMW001_WG010405_01 01/04/05 16:33	**008**			
Manganese - DISSOLVED	0.0093 B	0.015	mg/L	SW846 6010B
Chloroform	41	25	ug/L	SW846 8260B
1,1-Dichloroethane	8.4 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	250	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	16 J	25	ug/L	SW846 8260B
Trichloroethene	1000	25	ug/L	SW846 8260B
Sulfate	38.0	1.0	mg/L	MCAWW 300.0A
Nitrate as N	2.1	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	2.1	1.0	mg/L	SW846 9060
Bromide	0.69	0.50	mg/L	MCAWW 300.0A

BOE-C6-0011378

METHODS SUMMARY

E5A050141

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Bromide	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5A050141

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G15CX	001	TB_AR00305_01	01/03/05	
G15C1	002	IRZMW002B_WG010405_01	01/04/05	09:27
G15C3	003	IRZMW001A_WG010405_01	01/04/05	10:54
G15C4	004	IRZMW001B_WG010405_01	01/04/05	12:50
G15C5	005	IRZMW003A_WG010405_01	01/04/05	13:51
G15C6	006	IRZMW003B_WG010405_01	01/04/05	14:43
G15C7	007	IRZMW002A_WG010405_01	01/04/05	15:43
G15C8	008	IRZCMW001_WG010405_01	01/04/05	16:33

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific graviy, spot tests, solids, solubility, temperature, viscosity, and weight.

BOE-C6-0011380

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR00305_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-001 **Work Order #...:** G15CX1AA **Matrix.....:** WQ
Date Sampled...: 01/03/05 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 18:43
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.30
Dibromomethane	ND	1.0	ug/L	0.40
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
1,1-Dichloroethane	ND	1.0	ug/L	0.20
1,2-Dichloroethane	ND	1.0	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
1,3-Dichloropropane	ND	1.0	ug/L	0.40
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TB_AR00305_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-001 **Work Order #...:** G15CX1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Naphthalene	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	1.0	ug/L	0.30
m-Xylene & p-Xylene	ND	1.0	ug/L	0.50
o-Xylene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	72	(65 - 135)
Toluene-d8	102	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-002 **Work Order #...:** G15C11AF **Matrix.....:** WG
Date Sampled...: 01/04/05 09:27 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 19:05
Dilution Factor: 2.5
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**8.8 J**	**25**	**ug/L**	**7.5**
Benzene	ND	2.5	ug/L	0.75
Bromobenzene	ND	2.5	ug/L	0.75
Bromochloromethane	ND	2.5	ug/L	0.75
Bromoform	ND	2.5	ug/L	0.75
Bromomethane	ND	5.0	ug/L	2.5
2-Butanone	ND	12	ug/L	7.5
n-Butylbenzene	ND	2.5	ug/L	0.75
sec-Butylbenzene	ND	2.5	ug/L	0.75
tert-Butylbenzene	ND	2.5	ug/L	0.50
Carbon disulfide	ND	2.5	ug/L	0.75
Carbon tetrachloride	ND	2.5	ug/L	0.75
Chlorobenzene	ND	2.5	ug/L	0.75
Dibromochloromethane	ND	2.5	ug/L	1.0
Bromodichloromethane	ND	2.5	ug/L	0.75
Chloroethane	ND	5.0	ug/L	0.75
Chloroform	ND	2.5	ug/L	0.75
Chloromethane	ND	5.0	ug/L	0.75
2-Chlorotoluene	ND	2.5	ug/L	0.75
4-Chlorotoluene	ND	2.5	ug/L	0.75
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	1.8
1,2-Dibromoethane (EDB)	ND	2.5	ug/L	0.75
Dibromomethane	ND	2.5	ug/L	1.0
1,2-Dichlorobenzene	ND	2.5	ug/L	0.75
1,3-Dichlorobenzene	ND	2.5	ug/L	0.75
1,4-Dichlorobenzene	ND	2.5	ug/L	0.75
Dichlorodifluoromethane	ND	5.0	ug/L	1.0
1,1-Dichloroethane	ND	2.5	ug/L	0.50
1,2-Dichloroethane	ND	2.5	ug/L	1.0
1,1-Dichloroethene	**1.7 J**	**2.5**	**ug/L**	**0.75**
cis-1,2-Dichloroethene	**5.7**	**2.5**	**ug/L**	**0.75**
trans-1,2-Dichloroethene	ND	2.5	ug/L	0.75
1,2-Dichloropropane	ND	2.5	ug/L	0.75
1,3-Dichloropropane	ND	2.5	ug/L	1.0
2,2-Dichloropropane	ND	2.5	ug/L	0.75
1,1-Dichloropropene	ND	2.5	ug/L	0.75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-002 **Work Order #...:** G15C11AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	2.5	ug/L	0.75
trans-1,3-Dichloropropene	ND	2.5	ug/L	1.2
Ethylbenzene	ND	2.5	ug/L	0.50
Hexachlorobutadiene	ND	2.5	ug/L	0.75
2-Hexanone	ND	12	ug/L	7.5
Isopropylbenzene	ND	2.5	ug/L	0.75
p-Isopropyltoluene	ND	2.5	ug/L	0.75
Methylene chloride	ND	2.5	ug/L	0.75
4-Methyl-2-pentanone	ND	12	ug/L	7.5
Methyl tert-butyl ether	ND	2.5	ug/L	1.2
Naphthalene	ND	2.5	ug/L	1.2
n-Propylbenzene	ND	2.5	ug/L	1.0
Styrene	ND	2.5	ug/L	0.75
1,1,1,2-Tetrachloroethane	ND	2.5	ug/L	0.75
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	1.0
Tetrachloroethene	ND	2.5	ug/L	0.75
Toluene	ND	2.5	ug/L	0.75
1,2,3-Trichlorobenzene	ND	2.5	ug/L	1.0
1,2,4-Trichloro-benzene	ND	2.5	ug/L	0.75
1,1,1-Trichloroethane	ND	2.5	ug/L	0.50
1,1,2-Trichloroethane	ND	2.5	ug/L	0.75
Trichloroethene	**170**	**2.5**	**ug/L**	**0.75**
Trichlorofluoromethane	ND	5.0	ug/L	0.75
1,2,3-Trichloropropane	ND	2.5	ug/L	1.0
1,1,2-Trichlorotrifluoro-ethane	ND	2.5	ug/L	1.0
1,2,4-Trimethylbenzene	ND	2.5	ug/L	0.75
1,3,5-Trimethylbenzene	ND	2.5	ug/L	0.50
Vinyl chloride	ND	2.5	ug/L	0.75
m-Xylene & p-Xylene	ND	2.5	ug/L	1.2
o-Xylene	ND	2.5	ug/L	0.50
Xylenes (total)	ND	2.5	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG010405_01

DISSOLVED Metals

Lot-Sample #...: E5A050141-002 **Matrix.....:** WG
Date Sampled...: 01/04/05 09:27 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5005289						
Manganese	**0.018**	**0.015**	**mg/L**	**SW846 6010B**	**01/05-01/06/05**	**G15C11AM**
		Dilution Factor: 1		Analysis Time..: 22:11	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5005174	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002B_WG010405_01

General Chemistry

Lot-Sample #...: E5A050141-002 **Work Order #...:** G15C1 **Matrix.....:** WG
Date Sampled...: 01/04/05 09:27 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.64**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005131**
		Dilution Factor: 1		Analysis Time..: 08:15	Analyst ID.....: 000022	
		Instrument ID..: W01		MS Run #.....: 5005080	MDL.....: 0.10	
Nitrate as N	**9.5**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005133**
		Dilution Factor: 1		Analysis Time..: 08:15	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5005081	MDL.....: 0.030	
Sulfate	**94.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005320**
		Dilution Factor: 5		Analysis Time..: 12:32	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5005197	MDL.....: 1.0	
Total Organic Carbon (TOC)	**3.1**	**1.0**	**mg/L**	**SW846 9060**	**01/07/05**	**5010216**
		Dilution Factor: 1		Analysis Time..: 20:27	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5010107	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-003 **Work Order #...:** G15C31AF **Matrix.....:** WG
Date Sampled...: 01/04/05 10:54 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 19:26
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	ND	120	ug/L	38
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	**66 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	ND	120	ug/L	38
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-003 **Work Order #...:** G15C31AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**6900**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	79	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG010405_01

DISSOLVED Metals

Lot-Sample #...: E5A050141-003 **Matrix.....:** WG
Date Sampled...: 01/04/05 10:54 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5005289						
Manganese	**0.019**	**0.015**	**mg/L**	**SW846 6010B**	**01/05-01/06/05**	**G15C31AH**
		Dilution Factor: 1		Analysis Time..: 22:42	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5005174	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001A_WG010405_01

General Chemistry

Lot-Sample #...: E5A050141-003 **Work Order #...:** G15C3 **Matrix.....:** WG
Date Sampled...: 01/04/05 10:54 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	1.9	0.50	mg/L	MCAWW 300.0A	01/05/05	5005131
		Dilution Factor: 1		Analysis Time..: 08:31	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5005080	MDL.....: 0.10	
Nitrate as N	9.4	0.10	mg/L	MCAWW 300.0A	01/05/05	5005133
		Dilution Factor: 1		Analysis Time..: 08:31	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5005081	MDL.....: 0.030	
Sulfate	62.9	5.0	mg/L	MCAWW 300.0A	01/05/05	5005320
		Dilution Factor: 5		Analysis Time..: 12:49	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5005197	MDL.....: 1.0	
Total Organic Carbon (TOC)	6.1	1.0	mg/L	SW846 9060	01/06/05	5006439
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-004 **Work Order #...:** G15C41AF **Matrix.....:** WG
Date Sampled...: 01/04/05 12:50 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 19:47
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	ND	120	ug/L	75
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	ND	25	ug/L	7.5
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	ND	25	ug/L	5.0
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**16 J**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	ND	25	ug/L	7.5
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-004 **Work Order #...:** G15C41AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**1300**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	78	(65 - 135)
Toluene-d8	99	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG010405_01

DISSOLVED Metals

Lot-Sample #...: E5A050141-004 **Matrix.....:** WG
Date Sampled...: 01/04/05 12:50 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5005289						
Manganese	**0.0014 B**	**0.015**	**mg/L**	**SW846 6010B**	**01/05-01/06/05**	**G15C41AH**
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5005174	MDL.....: 0.0010	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW001B_WG010405_01

General Chemistry

Lot-Sample #...: E5A050141-004 **Work Order #...:** G15C4 **Matrix.....:** WG
Date Sampled...: 01/04/05 12:50 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.43 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005131**
		Dilution Factor: 1		Analysis Time..: 08:48	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5005080	MDL.....: 0.10	
Nitrate as N	**7.2**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005133**
		Dilution Factor: 1		Analysis Time..: 08:48	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5005081	MDL.....: 0.030	
Sulfate	**93.9**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005320**
		Dilution Factor: 5		Analysis Time..: 13:05	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5005197	MDL.....: 1.0	
Total Organic Carbon (TOC)	**6.3**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-005 **Work Order #...:** G15C51AF **Matrix.....:** WG
Date Sampled...: 01/04/05 13:51 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 21:33
Dilution Factor: 250
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2500	ug/L	750
Benzene	ND	250	ug/L	75
Bromobenzene	ND	250	ug/L	75
Bromochloromethane	ND	250	ug/L	75
Bromoform	ND	250	ug/L	75
Bromomethane	ND	500	ug/L	250
2-Butanone	ND	1200	ug/L	750
n-Butylbenzene	ND	250	ug/L	75
sec-Butylbenzene	ND	250	ug/L	75
tert-Butylbenzene	ND	250	ug/L	50
Carbon disulfide	ND	250	ug/L	75
Carbon tetrachloride	ND	250	ug/L	75
Chlorobenzene	ND	250	ug/L	75
Dibromochloromethane	ND	250	ug/L	100
Bromodichloromethane	ND	250	ug/L	75
Chloroethane	ND	500	ug/L	75
Chloroform	ND	250	ug/L	75
Chloromethane	ND	500	ug/L	75
2-Chlorotoluene	ND	250	ug/L	75
4-Chlorotoluene	ND	250	ug/L	75
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	180
1,2-Dibromoethane (EDB)	ND	250	ug/L	75
Dibromomethane	ND	250	ug/L	100
1,2-Dichlorobenzene	ND	250	ug/L	75
1,3-Dichlorobenzene	ND	250	ug/L	75
1,4-Dichlorobenzene	ND	250	ug/L	75
Dichlorodifluoromethane	ND	500	ug/L	100
1,1-Dichloroethane	ND	250	ug/L	50
1,2-Dichloroethane	ND	250	ug/L	100
1,1-Dichloroethene	**97 J**	**250**	**ug/L**	**75**
cis-1,2-Dichloroethene	**120 J**	**250**	**ug/L**	**75**
trans-1,2-Dichloroethene	ND	250	ug/L	75
1,2-Dichloropropane	ND	250	ug/L	75
1,3-Dichloropropane	ND	250	ug/L	100
2,2-Dichloropropane	ND	250	ug/L	75
1,1-Dichloropropene	ND	250	ug/L	75

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-005 **Work Order #...:** G15C51AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	250	ug/L	75
trans-1,3-Dichloropropene	ND	250	ug/L	120
Ethylbenzene	ND	250	ug/L	50
Hexachlorobutadiene	ND	250	ug/L	75
2-Hexanone	ND	1200	ug/L	750
Isopropylbenzene	ND	250	ug/L	75
p-Isopropyltoluene	ND	250	ug/L	75
Methylene chloride	ND	250	ug/L	75
4-Methyl-2-pentanone	ND	1200	ug/L	750
Methyl tert-butyl ether	ND	250	ug/L	120
Naphthalene	ND	250	ug/L	120
n-Propylbenzene	ND	250	ug/L	100
Styrene	ND	250	ug/L	75
1,1,1,2-Tetrachloroethane	ND	250	ug/L	75
1,1,2,2-Tetrachloroethane	ND	250	ug/L	100
Tetrachloroethene	ND	250	ug/L	75
Toluene	ND	250	ug/L	75
1,2,3-Trichlorobenzene	ND	250	ug/L	100
1,2,4-Trichloro-benzene	ND	250	ug/L	75
1,1,1-Trichloroethane	ND	250	ug/L	50
1,1,2-Trichloroethane	ND	250	ug/L	75
Trichloroethene	**11000**	**250**	**ug/L**	**75**
Trichlorofluoromethane	ND	500	ug/L	75
1,2,3-Trichloropropane	ND	250	ug/L	100
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	100
1,2,4-Trimethylbenzene	ND	250	ug/L	75
1,3,5-Trimethylbenzene	ND	250	ug/L	50
Vinyl chloride	ND	250	ug/L	75
m-Xylene & p-Xylene	ND	250	ug/L	120
o-Xylene	ND	250	ug/L	50
Xylenes (total)	ND	250	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	77	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG010405_01

DISSOLVED Metals

Lot-Sample #...: E5A050141-005 **Matrix.....:** WG
Date Sampled...: 01/04/05 13:51 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5005289						
Manganese	**0.10**	**0.015**	**mg/L**	**SW846 6010B**	**01/05-01/06/05**	**G15C51AH**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5005174	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003A_WG010405_01

General Chemistry

Lot-Sample #...: E5A050141-005 **Work Order #...:** G15C5 **Matrix.....:** WG
Date Sampled...: 01/04/05 13:51 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**1.4**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005131**
		Dilution Factor: 1		Analysis Time..: 09:04	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5005080	MDL.....: 0.10	
Nitrate as N	**6.1**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005133**
		Dilution Factor: 1		Analysis Time..: 09:04	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5005081	MDL.....: 0.030	
Sulfate	**41.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005320**
		Dilution Factor: 1		Analysis Time..: 09:04	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5005197	MDL.....: 0.20	
Total Organic Carbon (TOC)	**9.7**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-006 **Work Order #...:** G15C61AF **Matrix.....:** WG
Date Sampled...: 01/04/05 14:43 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 21:54
Dilution Factor: 10
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	30
Benzene	ND	10	ug/L	3.0
Bromobenzene	ND	10	ug/L	3.0
Bromochloromethane	ND	10	ug/L	3.0
Bromoform	ND	10	ug/L	3.0
Bromomethane	ND	20	ug/L	10
2-Butanone	ND	50	ug/L	30
n-Butylbenzene	ND	10	ug/L	3.0
sec-Butylbenzene	ND	10	ug/L	3.0
tert-Butylbenzene	ND	10	ug/L	2.0
Carbon disulfide	ND	10	ug/L	3.0
Carbon tetrachloride	ND	10	ug/L	3.0
Chlorobenzene	ND	10	ug/L	3.0
Dibromochloromethane	ND	10	ug/L	4.0
Bromodichloromethane	ND	10	ug/L	3.0
Chloroethane	ND	20	ug/L	3.0
Chloroform	ND	10	ug/L	3.0
Chloromethane	ND	20	ug/L	3.0
2-Chlorotoluene	ND	10	ug/L	3.0
4-Chlorotoluene	ND	10	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	20	ug/L	7.0
1,2-Dibromoethane (EDB)	ND	10	ug/L	3.0
Dibromomethane	ND	10	ug/L	4.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0
1,3-Dichlorobenzene	ND	10	ug/L	3.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
Dichlorodifluoromethane	ND	20	ug/L	4.0
1,1-Dichloroethane	ND	10	ug/L	2.0
1,2-Dichloroethane	ND	10	ug/L	4.0
1,1-Dichloroethene	**16**	**10**	**ug/L**	**3.0**
cis-1,2-Dichloroethene	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	10	ug/L	3.0
1,2-Dichloropropane	ND	10	ug/L	3.0
1,3-Dichloropropane	ND	10	ug/L	4.0
2,2-Dichloropropane	ND	10	ug/L	3.0
1,1-Dichloropropene	ND	10	ug/L	3.0

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-006 **Work Order #...:** G15C61AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	10	ug/L	3.0
trans-1,3-Dichloropropene	ND	10	ug/L	5.0
Ethylbenzene	ND	10	ug/L	2.0
Hexachlorobutadiene	ND	10	ug/L	3.0
2-Hexanone	ND	50	ug/L	30
Isopropylbenzene	ND	10	ug/L	3.0
p-Isopropyltoluene	ND	10	ug/L	3.0
Methylene chloride	ND	10	ug/L	3.0
4-Methyl-2-pentanone	ND	50	ug/L	30
Methyl tert-butyl ether	ND	10	ug/L	5.0
Naphthalene	ND	10	ug/L	5.0
n-Propylbenzene	ND	10	ug/L	4.0
Styrene	ND	10	ug/L	3.0
1,1,1,2-Tetrachloroethane	ND	10	ug/L	3.0
1,1,2,2-Tetrachloroethane	ND	10	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	3.0
Toluene	ND	10	ug/L	3.0
1,2,3-Trichlorobenzene	ND	10	ug/L	4.0
1,2,4-Trichloro-benzene	ND	10	ug/L	3.0
1,1,1-Trichloroethane	ND	10	ug/L	2.0
1,1,2-Trichloroethane	ND	10	ug/L	3.0
Trichloroethene	**620**	**10**	**ug/L**	**3.0**
Trichlorofluoromethane	ND	20	ug/L	3.0
1,2,3-Trichloropropane	ND	10	ug/L	4.0
1,1,2-Trichlorotrifluoro-ethane	ND	10	ug/L	4.0
1,2,4-Trimethylbenzene	ND	10	ug/L	3.0
1,3,5-Trimethylbenzene	ND	10	ug/L	2.0
Vinyl chloride	ND	10	ug/L	3.0
m-Xylene & p-Xylene	ND	10	ug/L	5.0
o-Xylene	ND	10	ug/L	2.0
Xylenes (total)	ND	10	ug/L	8.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	80	(65 - 135)
Toluene-d8	100	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG010405_01

DISSOLVED Metals

Lot-Sample #...: E5A050141-006 **Matrix.....:** WG
Date Sampled...: 01/04/05 14:43 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5005289						
Manganese	**0.021**	**0.015**	**mg/L**	**SW846 6010B**	**01/05-01/06/05**	**G15C61AH**
		Dilution Factor: 1		Analysis Time..: 23:04	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5005174	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW003B_WG010405_01

General Chemistry

Lot-Sample #...: E5A050141-006 **Work Order #...:** G15C6 **Matrix.....:** WG
Date Sampled...: 01/04/05 14:43 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.59**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005131**
		Dilution Factor: 1		Analysis Time..: 09:21	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5005080	MDL.....: 0.10	
Nitrate as N	**6.0**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005133**
		Dilution Factor: 1		Analysis Time..: 09:21	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5005081	MDL.....: 0.030	
Sulfate	**80.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005320**
		Dilution Factor: 5		Analysis Time..: 13:22	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5005197	MDL.....: 1.0	
Total Organic Carbon (TOC)	**3.4**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-007 **Work Order #...:** G15C71AF **Matrix.....:** WG
Date Sampled...: 01/04/05 15:43 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 22:15
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Carbon tetrachloride	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
Chloroethane	ND	200	ug/L	30
Chloroform	ND	100	ug/L	30
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	70
1,2-Dibromoethane (EDB)	ND	100	ug/L	30
Dibromomethane	ND	100	ug/L	40
1,2-Dichlorobenzene	ND	100	ug/L	30
1,3-Dichlorobenzene	ND	100	ug/L	30
1,4-Dichlorobenzene	ND	100	ug/L	30
Dichlorodifluoromethane	ND	200	ug/L	40
1,1-Dichloroethane	ND	100	ug/L	20
1,2-Dichloroethane	ND	100	ug/L	40
1,1-Dichloroethene	**62 J**	**100**	**ug/L**	**30**
cis-1,2-Dichloroethene	**460**	**100**	**ug/L**	**30**
trans-1,2-Dichloroethene	ND	100	ug/L	30
1,2-Dichloropropane	ND	100	ug/L	30
1,3-Dichloropropane	ND	100	ug/L	40
2,2-Dichloropropane	ND	100	ug/L	30
1,1-Dichloropropene	ND	100	ug/L	30

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-007 **Work Order #...:** G15C71AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	100	ug/L	30
trans-1,3-Dichloropropene	ND	100	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	300
Isopropylbenzene	ND	100	ug/L	30
p-Isopropyltoluene	ND	100	ug/L	30
Methylene chloride	ND	100	ug/L	30
4-Methyl-2-pentanone	ND	500	ug/L	300
Methyl tert-butyl ether	ND	100	ug/L	50
Naphthalene	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	40
Tetrachloroethene	ND	100	ug/L	30
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**7100**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	30
1,2,3-Trichloropropane	ND	100	ug/L	40
1,1,2-Trichlorotrifluoro-ethane	ND	100	ug/L	40
1,2,4-Trimethylbenzene	ND	100	ug/L	30
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Vinyl chloride	ND	100	ug/L	30
m-Xylene & p-Xylene	ND	100	ug/L	50
o-Xylene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	80	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG010405_01

DISSOLVED Metals

Lot-Sample #...: E5A050141-007 **Matrix.....:** WG
Date Sampled...: 01/04/05 15:43 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5005289						
Manganese	**1.7**	**0.015**	**mg/L**	**SW846 6010B**	**01/05-01/06/05**	**G15C71AH**
		Dilution Factor: 1		Analysis Time..: 23:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5005174	MDL.....: 0.0010	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW002A_WG010405_01

General Chemistry

Lot-Sample #...: E5A050141-007 **Work Order #...:** G15C7 **Matrix.....:** WG
Date Sampled...: 01/04/05 15:43 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**1.8**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005131**
		Dilution Factor: 1		Analysis Time..: 09:37	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5005080	MDL.....: 0.10	
Nitrate as N	**3.7**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005133**
		Dilution Factor: 1		Analysis Time..: 09:37	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5005081	MDL.....: 0.030	
Sulfate	**68.1**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005320**
		Dilution Factor: 5		Analysis Time..: 13:38	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5005197	MDL.....: 1.0	
Total Organic Carbon (TOC)	**7.2**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-008 **Work Order #...:** G15C81AF **Matrix.....:** WG
Date Sampled...: 01/04/05 16:33 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 21:11
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
2-Butanone	ND	120	ug/L	75
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Carbon tetrachloride	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Chloroform	**41**	**25**	**ug/L**	**7.5**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2-Dibromoethane (EDB)	ND	25	ug/L	7.5
Dibromomethane	ND	25	ug/L	10
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	50	ug/L	10
1,1-Dichloroethane	**8.4 J**	**25**	**ug/L**	**5.0**
1,2-Dichloroethane	ND	25	ug/L	10
1,1-Dichloroethene	**250**	**25**	**ug/L**	**7.5**
cis-1,2-Dichloroethene	**16 J**	**25**	**ug/L**	**7.5**
trans-1,2-Dichloroethene	ND	25	ug/L	7.5
1,2-Dichloropropane	ND	25	ug/L	7.5
1,3-Dichloropropane	ND	25	ug/L	10
2,2-Dichloropropane	ND	25	ug/L	7.5
1,1-Dichloropropene	ND	25	ug/L	7.5

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ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG010405_01

GC/MS Volatiles

Lot-Sample #...: E5A050141-008 **Work Order #...:** G15C81AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	25	ug/L	7.5
trans-1,3-Dichloropropene	ND	25	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Isopropylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
Methylene chloride	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Methyl tert-butyl ether	ND	25	ug/L	12
Naphthalene	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
Tetrachloroethene	ND	25	ug/L	7.5
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**1000**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	7.5
1,2,3-Trichloropropane	ND	25	ug/L	10
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L	10
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	25	ug/L	7.5
m-Xylene & p-Xylene	ND	25	ug/L	12
o-Xylene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	78	(65 - 135)
Toluene-d8	101	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG010405_01

DISSOLVED Metals

Lot-Sample #...: E5A050141-008 **Matrix.....:** WG
Date Sampled...: 01/04/05 16:33 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5005289						
Manganese	**0.0093 B**	**0.015**	**mg/L**	**SW846 6010B**	**01/05-01/06/05**	**G15C81AH**
		Dilution Factor: 1		Analysis Time..: 23:19	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5005174	MDL.....: 0.0010	

NOTE(S):

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW001_WG010405_01

General Chemistry

Lot-Sample #...: E5A050141-008 **Work Order #...:** G15C8 **Matrix.....:** WG
Date Sampled...: 01/04/05 16:33 **Date Received..:** 01/04/05 18:42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.69**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005131**
		Dilution Factor: 1		Analysis Time..: 09:54	Analyst ID.....: 0000228	
		Instrument ID..: W01		MS Run #.....: 5005080	MDL.....: 0.10	
Nitrate as N	**2.1**	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005133**
		Dilution Factor: 1		Analysis Time..: 09:54	Analyst ID.....: 0000220	
		Instrument ID..: W01		MS Run #.....: 5005081	MDL.....: 0.030	
Sulfate	**38.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**01/05/05**	**5005320**
		Dilution Factor: 1		Analysis Time..: 09:54	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5005197	MDL.....: 0.20	
Total Organic Carbon (TOC)	**2.1**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999957	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5A050141

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WQ	SW846 8260B		5006429	5006223
002	WG	MCAWW 300.0A		5005320	5005197
	WG	MCAWW 300.0A		5005133	5005081
	WG	SW846 9060		5010216	5010107
	WG	MCAWW 300.0A		5005131	5005080
	WG	SW846 8260B		5006429	5006223
	WG	SW846 6010B		5005289	5005174
003	WG	MCAWW 300.0A		5005320	5005197
	WG	MCAWW 300.0A		5005133	5005081
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5005131	5005080
	WG	SW846 8260B		5006429	5006223
	WG	SW846 6010B		5005289	5005174
004	WG	MCAWW 300.0A		5005320	5005197
	WG	MCAWW 300.0A		5005133	5005081
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5005131	5005080
	WG	SW846 8260B		5006429	5006223
	WG	SW846 6010B		5005289	5005174
005	WG	MCAWW 300.0A		5005320	5005197
	WG	MCAWW 300.0A		5005133	5005081
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5005131	5005080
	WG	SW846 8260B		5006429	5006223
	WG	SW846 6010B		5005289	5005174
006	WG	MCAWW 300.0A		5005320	5005197
	WG	MCAWW 300.0A		5005133	5005081
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5005131	5005080
	WG	SW846 8260B		5006429	5006223
	WG	SW846 6010B		5005289	5005174
007	WG	MCAWW 300.0A		5005320	5005197
	WG	MCAWW 300.0A		5005133	5005081
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5005131	5005080
	WG	SW846 8260B		5006429	5006223
	WG	SW846 6010B		5005289	5005174

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QC DATA ASSOCIATION SUMMARY

E5A050141

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
008	WG	MCAWW 300.0A		5005320	5005197
	WG	MCAWW 300.0A		5005133	5005081
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5005131	5005080
	WG	SW846 8260B		5006429	5006223
	WG	SW846 6010B		5005289	5005174

BOE-C6-0011413

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A050141 **Work Order #...:** G18DL1AA **Matrix.....:** WATER
MB Lot-Sample #: E5A060000-429

Prep Date.....: 01/05/05 **Analysis Time..:** 18:07
Analysis Date..: 01/05/05 **Prep Batch #...:** 5006429 **Instrument ID..:** MSR
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A050141 **Work Order #...:** G18DL1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	79	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: E5A050141 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5A050000-289 **Prep Batch #...:** 5005289						
Manganese	ND	0.015	mg/L	SW846 6010B	01/05-01/06/05	G15891AA

Dilution Factor: 1

Analysis Time..: 21:45 Analyst ID.....: 021088 Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5A050141 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G15EV1AA		MB Lot-Sample #:	E5A050000-131	
	ND	0.50	mg/L	MCAWW 300.0A	01/05/05	5005131
		Dilution Factor: 1				
		Analysis Time..: 07:58		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: G15E01AA		MB Lot-Sample #:	E5A050000-133	
	ND	0.10	mg/L	MCAWW 300.0A	01/05/05	5005133
		Dilution Factor: 1				
		Analysis Time..: 07:58		Analyst ID.....: 000022	Instrument ID..: W01	
Sulfate		Work Order #: G16HM1AA		MB Lot-Sample #:	E5A050000-320	
	ND	1.0	mg/L	MCAWW 300.0A	01/05/05	5005320
		Dilution Factor: 1				
		Analysis Time..: 07:58		Analyst ID.....: 000022	Instrument ID..: W01	
Total Organic Carbon (TOC)		Work Order #: G180W1AA		MB Lot-Sample #:	E5A060000-439	
	ND	1.0	mg/L	SW846 9060	01/06/05	5006439
		Dilution Factor: 1				
		Analysis Time..: 18:11		Analyst ID.....: 999995	Instrument ID..: W08	
Total Organic Carbon (TOC)		Work Order #: G2CJA1AA		MB Lot-Sample #:	E5A100000-216	
	ND	1.0	mg/L	SW846 9060	01/07/05	5010216
		Dilution Factor: 1				
		Analysis Time..: 20:27		Analyst ID.....: 999995	Instrument ID..: W08	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0011417

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A050141 **Work Order #...:** G18DL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A060000-429
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 17:24
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**90**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**86**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**100**	**(65 - 135)**	**SW846 8260B**
Toluene	**92**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**89**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	77	(65 - 135)
Toluene-d8	104	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0011418

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A050141 **Work Order #...:** G18DL1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A060000-429
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 17:24
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**8.98**	**ug/L**	**90**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.57**	**ug/L**	**86**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.96**	**ug/L**	**100**	**SW846 8260B**
Toluene	**10.0**	**9.17**	**ug/L**	**92**	**SW846 8260B**
Trichloroethene	**10.0**	**8.94**	**ug/L**	**89**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	77	(65 - 135)
Toluene-d8	104	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BOE-C6-0011419

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A050141 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A050000-289 **Prep Batch #...:** 5005289					
Manganese	95	(85 - 120)	SW846 6010B	01/05-01/06/05	G15891AC

Dilution Factor. 1 Analysis Time..: 21:51 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A050141 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A050000-289 **Prep Batch #...:** 5005289							
Manganese	0.500	0.476	mg/L	95	SW846 6010B	01/05-01/06/05	G15891AC

Dilution Factor: 1 Analysis Time..: 21:51 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A050141 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G15EV1AC	LCS Lot-Sample#: E5A050000-131		
	101	(90 - 110)	MCAWW 300.0A	01/05/05	5005131
		Dilution Factor: 1	Analysis Time..: 07:42	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: G15E01AC	LCS Lot-Sample#: E5A050000-133		
	102	(90 - 110)	MCAWW 300.0A	01/05/05	5005133
		Dilution Factor: 1	Analysis Time..: 07:42	Analyst ID.....: 000022	
		Instrument ID..: W01			
Sulfate		Work Order #: G16HM1AC	LCS Lot-Sample#: E5A050000-320		
	103	(90 - 110)	MCAWW 300.0A	01/05/05	5005320
		Dilution Factor: 1	Analysis Time..: 07:42	Analyst ID.....: 000022	
		Instrument ID..: W01			
Total Organic Carbon (TOC)		Work Order #: G180W1AC	LCS Lot-Sample#: E5A060000-439		
	93	(85 - 115)	SW846 9060	01/06/05	5006439
		Dilution Factor: 1	Analysis Time..: 18:11	Analyst ID.....: 999995	
		Instrument ID..: W08			
Total Organic Carbon (TOC)		Work Order #: G2CJA1AC	LCS Lot-Sample#: E5A100000-216		
	97	(85 - 115)	SW846 9060	01/07/05	5010216
		Dilution Factor: 1	Analysis Time..: 20:27	Analyst ID.....: 999995	
		Instrument ID..: W08			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A050141 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			Work Order #: G15EV1AC		LCS Lot-Sample#:	E5A050000-131	
	5.00	5.06	mg/L	101	MCAWW 300.0A	01/05/05	5005131
			Dilution Factor: 1		Analysis Time..: 07:42	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: G15E01AC		LCS Lot-Sample#:	E5A050000-133	
	5.00	5.12	mg/L	102	MCAWW 300.0A	01/05/05	5005133
			Dilution Factor: 1		Analysis Time..: 07:42	Analyst ID.....: 000022	
			Instrument ID..: W01				
Sulfate			Work Order #: G16HM1AC		LCS Lot-Sample#:	E5A050000-320	
	25.0	25.7	mg/L	103	MCAWW 300.0A	01/05/05	5005320
			Dilution Factor: 1		Analysis Time..: 07:42	Analyst ID.....: 000022	
			Instrument ID..: W01				
Total Organic Carbon (TOC)			Work Order #: G180W1AC		LCS Lot-Sample#:	E5A060000-439	
	25.0	23.2	mg/L	93	SW846 9060	01/06/05	5006439
			Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 999995	
			Instrument ID..: W08				
Total Organic Carbon (TOC)			Work Order #: G2CJA1AC		LCS Lot-Sample#:	E5A100000-216	
	25.0	24.3	mg/L	97	SW846 9060	01/07/05	5010216
			Dilution Factor: 1		Analysis Time..: 20:27	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5A050141	**Work Order #...:**	G15C51AJ-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5A050141-005		G15C51AK-MSD		
Date Sampled...:	01/04/05 13:51	**Date Received..:**	01/04/05 18:42	**MS Run #.....:**	5006223
Prep Date.....:	01/05/05	**Analysis Date..:**	01/05/05		
Prep Batch #...:	5006429	**Analysis Time..:**	22:57		
Dilution Factor:	250	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**89**	**(75 - 125)**			**SW846 8260B**
	87	**(75 - 125)**	**2.0**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**85**	**(75 - 125)**			**SW846 8260B**
	86	**(75 - 125)**	**0.61**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(65 - 135)**			**SW846 8260B**
	100	**(65 - 135)**	**0.77**	**(0-25)**	**SW846 8260B**
Toluene	**91**	**(75 - 125)**			**SW846 8260B**
	92	**(75 - 125)**	**1.0**	**(0-25)**	**SW846 8260B**
Trichloroethene	**0.0 MSB**	**(75 - 135)**			**SW846 8260B**
	0.0 MSB	**(75 - 135)**	**0.0**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	81	(65 - 135)
	77	(65 - 135)
Toluene-d8	103	(80 - 130)
	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A050141 **Work Order #...:** G15C51AJ-MS **Matrix.....:** WG
MS Lot-Sample #: E5A050141-005 G15C51AK-MSD
Date Sampled...: 01/04/05 13:51 **Date Received..:** 01/04/05 18:42 **MS Run #.....:** 5006223
Prep Date.....: 01/05/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5006429 **Analysis Time..:** 22:57
Dilution Factor: 250 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**2500**	**2230**	**ug/L**	**89**		**SW846 8260B**
	ND	**2500**	**2190**	**ug/L**	**87**	**2.0**	**SW846 8260B**
Chlorobenzene	**ND**	**2500**	**2130**	**ug/L**	**85**		**SW846 8260B**
	ND	**2500**	**2140**	**ug/L**	**86**	**0.61**	**SW846 8260B**
1,1-Dichloroethene	**97**	**2500**	**2580**	**ug/L**	**99**		**SW846 8260B**
	97	**2500**	**2600**	**ug/L**	**100**	**0.77**	**SW846 8260B**
Toluene	**ND**	**2500**	**2280**	**ug/L**	**91**		**SW846 8260B**
	ND	**2500**	**2300**	**ug/L**	**92**	**1.0**	**SW846 8260B**
Trichloroethene	**11000**	**2500**		**ug/L**	**0.0**		**SW846 8260B**
	Qualifiers: MSB						
	11000	**2500**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers: MSB						

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
	94	(75 - 130)
1,2-Dichloroethane-d4	81	(65 - 135)
	77	(65 - 135)
Toluene-d8	103	(80 - 130)
	103	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A050141 **Matrix.....:** WG
Date Sampled...: 01/04/05 09:27 **Date Received..:** 01/04/05 18:42

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A050141-002 **Prep Batch #...:** 5005289							
Manganese	95	(85 - 120)			SW846 6010B	01/05-01/06/05	G15C11AN
	93	(85 - 120)	1.8	(0-20)	SW846 6010B	01/05-01/06/05	G15C11AP

Dilution Factor: 1
Analysis Time..: 22:25 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5005174

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A050141 **Matrix.....:** WG
Date Sampled...: 01/04/05 09:27 **Date Received..:** 01/04/05 18:42

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A050141-002 **Prep Batch #...:** 5005289									
Manganese									
	0.018	0.500	0.494	mg/L	95		SW846 6010B	01/05-01/06/05	G15C11AN
	0.018	0.500	0.485	mg/L	93	1.8	SW846 6010B	01/05-01/06/05	G15C11AP

Dilution Factor: 1
Analysis Time..: 22:25 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5005174

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A050141 **Matrix.....:** WG
Date Sampled...: 01/04/05 14:43 **Date Received..:** 01/04/05 18:42

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: G15C11AG-MS/G15C11AH-MSD MS Lot-Sample #: E5A050141-002					
	94	(80 - 120)			MCAWW 300.0A	01/05/05	5005131
	104	(80 - 120)	9.6	(0-20)	MCAWW 300.0A	01/05/05	5005131
		Dilution Factor: 5					
		Analysis Time..: 13:55 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5005080					
Nitrate as N		WO#: G15C11AJ-MS/G15C11AK-MSD MS Lot-Sample #: E5A050141-002					
	95	(80 - 120)			MCAWW 300.0A	01/05/05	5005133
	105	(80 - 120)	5.8	(0-20)	MCAWW 300.0A	01/05/05	5005133
		Dilution Factor: 5					
		Analysis Time..: 13:55 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5005081					
Sulfate		WO#: G15C11AQ-MS/G15C11AR-MSD MS Lot-Sample #: E5A050141-002					
	99	(80 - 120)			MCAWW 300.0A	01/05/05	5005320
	109	(80 - 120)	3.8	(0-20)	MCAWW 300.0A	01/05/05	5005320
		Dilution Factor: 5					
		Analysis Time..: 13:55 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5005197					
Total Organic Carbon (TOC)		WO#: G15C11AT-MS/G15C11AU-MSD MS Lot-Sample #: E5A050141-002					
	96	(85 - 115)			SW846 9060	01/07/05	5010216
	94	(85 - 115)	2.4	(0-20)	SW846 9060	01/07/05	5010216
		Dilution Factor: 1					
		Analysis Time..: 20:27 Instrument ID..: W08 Analyst ID.....: 999995					
		MS Run #.....: 5010107					
Total Organic Carbon (TOC)		WO#: G15C61AJ-MS/G15C61AK-MSD MS Lot-Sample #: E5A050141-006					
	93	(85 - 115)			SW846 9060	01/06/05	5006439
	93	(85 - 115)	0.45	(0-20)	SW846 9060	01/06/05	5006439
		Dilution Factor: 1					
		Analysis Time..: 18:11 Instrument ID..: W08 Analyst ID.....: 999995					
		MS Run #.....: 5007128					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0011428

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A050141 **Matrix.....:** WG
Date Sampled...: 01/04/05 14:43 **Date Received..:** 01/04/05 18:42

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: G15C11AG-MS/G15C11AH-MSD MS Lot-Sample #: E5A050141-002						
	0.64	12.5	12.3	mg/L	94		MCAWW 300.0A	01/05/05	5005131
	0.64	12.5	13.6	mg/L	104	9.6	MCAWW 300.0A	01/05/05	5005131
			Dilution Factor: 5						
			Analysis Time..: 13:55		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5005080						
Nitrate as N			WO#: G15C11AJ-MS/G15C11AK-MSD MS Lot-Sample #: E5A050141-002						
	9.5	12.5	21.4	mg/L	95		MCAWW 300.0A	01/05/05	5005133
	9.5	12.5	22.6	mg/L	105	5.8	MCAWW 300.0A	01/05/05	5005133
			Dilution Factor: 5						
			Analysis Time..: 13:55		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5005081						
Sulfate			WO#: G15C11AQ-MS/G15C11AR-MSD MS Lot-Sample #: E5A050141-002						
	94.8	62.5	157	mg/L	99		MCAWW 300.0A	01/05/05	5005320
	94.8	62.5	163	mg/L	109	3.8	MCAWW 300.0A	01/05/05	5005320
			Dilution Factor: 5						
			Analysis Time..: 13:55		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5005197						
Total Organic Carbon (TOC)			WO#: G15C11AT-MS/G15C11AU-MSD MS Lot-Sample #: E5A050141-002						
	3.1	25.0	27.2	mg/L	96		SW846 9060	01/07/05	5010216
	3.1	25.0	26.5	mg/L	94	2.4	SW846 9060	01/07/05	5010216
			Dilution Factor: 1						
			Analysis Time..: 20:27		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5010107						
Total Organic Carbon (TOC)			WO#: G15C61AJ-MS/G15C61AK-MSD MS Lot-Sample #: E5A050141-006						
	3.4	25.0	26.6	mg/L	93		SW846 9060	01/06/05	5006439
	3.4	25.0	26.7	mg/L	93	0.45	SW846 9060	01/06/05	5006439
			Dilution Factor: 1						
			Analysis Time..: 18:11		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5007128						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

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January 16, 2005

STL LOT NUMBER: E5A030179
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

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1400 N. Harbor Blvd.
Suite 700
Fullerton, CA 92835-4127

Dear Mr. Poley,

This report contains the analytical results for the sample received under chain of custody by STL Los Angeles on January 3, 2005. This sample is associated with your Boeing Compton, California project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 313.

Sincerely,

Diane Suzuki
Customer Service Manager

CC: Project File

000037

Page 1 of _____ total pages in this report.

LOT NUMBER E5A030179

Nonconformance 05-11089

Affected Samples:
E5A030179 (1): CMW002_WG010305_01

Affected Methods:
None specified.

Case Narrative:
The sample was received for dissolved manganese and was unpreserved.
Sample was filtered and preserved by the lab to a pH<2 with Nitric Acid prior to metals digestion. Pre-preserved bottles with Nitric Acid were used as containers.

Nonconformance 05-11106

Affected Samples:
E5A030179 (1): CMW002_WG010305_01

Affected Methods:
300.0A,

Case Narrative:
Client requested Sulfate (E300.0) on sample label, but the analysis was not listed on COC. The sample was logged in for Sulfate per client request.

E5A030179

hain of ustody Record

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

4124 (0901)

ent: ARCADIS	Project Manager: David Poley	Date: 1/3/04	Chain of Custody Number: 181466
dress: 00 N Harbor Blvd Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 FAX (714) 278-0051	Lab Number: E5A030179	Page 1 of 1
; ilerton — State: CA — Zip Code: 92835	Site Contact: H. Hernandez	Lab Contact:	
ject Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (ntainers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260	Bromide/Nitrate	Sulfide	TOC	Special Instructions/ Conditions of Receipt
~~5_AR010305_01 H.P.H.~~	~~1/3/05~~	~~—~~		✓						✓			X				
1W002_WG010305_01	1/3/05	1055		✓			✓			✓		✓	X	X	X	X	

ssible Hazard Identification: Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

n Around Time Required: 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	1/3/05	13:25	[signature]	1-3-05	13:25
Relinquished By	Date	Time	2. Received By	Date	Time
Relinquished By	Date	Time	3. Received By	Date	Time

mments

TRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3

BOE-C6-0011432

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 1-3-05

LIMS Lot #: E5A030179 Quote #: 48735

Client Name: ARCADIS Project: BOEING C-6

Received by: S.Q G. BECKMAN Date/Time Received: 1-3-05 13:25

Delivered by : ☒ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

****

Initial / Date

Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None ..... S.Q. 1-3-05

Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None .....

Custody Seal #(s): ☒ No Seal #.....

Sampler Signature on COC ☒ Yes ☐ No ☒ N/A...

IR Gun # 4 Correction Factor 0.2 °C IR passed daily verification ☒ Yes ☐ No .....

Temperature - **BLANK** ____ °C +/- ____ CF = ____ °C .....

Temperature – **COOLER** (13.9 °C 12.8 °C 12.2 °C 13.5 °C) = 13.1 avg °C +/- 0.2 CF = 12.9 °C.....

Samples outside temperature criteria but received within 6 hours of final sampling ☒ Yes ☐ N/A...

Sample Container(s): ☒ STL-LA ☐ Client .....

One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐ No ☒ N/A....

One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒ N/A ...

Samples: ☒ Intact ☐ Broken ☐ Other ____ .....

pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A..

Anomalies: ☐ No ☒ Yes – complete CUR and Create NCM NCM # ____ .....

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☐ N/A....

Labeled by: ____ Labeling checked .....

****

Turn Around Time: ☐ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☒ NORMAL .....

Short-Hold Notification: ☐ pH ☒ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired...

Outside Analysis(es) (Test/Lab/Date Sent Out) :

.....

.....

..... S.Q 1-3-05

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☐ N/A ____

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5A030179

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1													
VOAH/ *	3													
1LPB	2													
AGB s	1													
250 PB	1													

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide. Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A _____

- **COOLERS**
  - _ Not Received (received COC only)
  - _ Leaking
  - _ Other:
- **CUSTODY SEALS (COOLER(S)**
  - _ None
  - _ Not Intact
  - _ Other
- **CONTAINER(S)**
  - _ None
  - _ Not Intact
  - _ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - _ Cooler Temp(s)
  - _ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - _ Not relinquished by Client; No date/time relinquished
  - _ Incomplete information provided
  - _ Other _ COC not received – notify PM
- **CONTAINERS**
  - _ Leaking _ Voa Vials with Bubbles > 6mm
  - _ Broken
  - _ Extra
  - _ Without Labels
  - _ Other:
- **LABELS**
  - X Not the same ID/info as in COC
  - _ Incomplete Information
  - _ Markings/Info illegible
  - _ Torn
- **SAMPLES**
  - _ Samples NOT RECEIVED but listed on COC
  - _ Samples received but NOT LISTED on COC
  - _ Logged based on Label Information
  - _ Logged based on info from other samples on COC
  - _ Logged according to Work Plan
  - _ Logged on HOLD UNTIL FURTHER NOTICE
  - _ Will be noted on COC--Client to send samples with new COC
  - _ Mislabeled as to tests, preservatives, etc.
  - _ Holding time expired – list sample ID and test
  - _ Improper container used
  - _ Not preserved/Improper preservative used
  - _ Improper pH _____ Lab to preserve sample and document
  - _ Insufficient quantities for analysis _ Other

Comments: Sample lable requires dissolved manganese, not listed on COC's
01/03/05 Per Teresa Goo d-mn needed

_ Corrective Action Implemented:

_ Client Informed: verbally on _____ By: _____ In writing on 01-03-05 By: email

_ Sample(s) on hold until: _____ _ Sample(s) processed "as is."

Logged by/Date: 1/3/05

PM Review/Date: 01-04-05

E5A030179

Chain of Custody Record

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ARCADIS	Project Manager: David Foley	Date: 01/03/05 ~~1/3/04~~	Chain of Custody Number: 181466
Address: 1900 N Harbor Blvd Suite 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 FAX (714) 278-0051	Lab Number: E5A030179	Page 1 of 1
City: Fullerton; State: CA; Zip Code: 92835	Site Contact: H Hernandez; Lab Contact:		
Project Name and Location (State): Boeing C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260	Bromide/Nitrate	Sulfate	TOC	Dissolved Manganese	Special Instructions/ Conditions of Receipt
~~TB_AR010305_01 H.G.H.~~	~~1/3/05~~	~~—~~		✓						✓			X					
CMW002_WG010305_01	1/3/05	1055		✓			✓			✓		✓	X	X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1 Relinquished By: [signature]	1/3/05	13:25	1 Received By: [signature]	1-3-05	13:25
2 Relinquished By:			2 Received By:		
3 Relinquished By:			3 Received By:		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6

BOE-C6-0011435

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 1-3-05

LIMS Lot #: E5A030179 Quote #: 48735

Client Name: ARCADIS Project: BOEING C-6

Received by: S.Q G. BECKMAN Date/Time Received: 1-3-05 13:25

Delivered by : ☒ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other _____

	Initial / Date
Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None	SQ 1-3-05
Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None	
Custody Seal #(s): _____ ☒ No Seal #	
Sampler Signature on COC ☒ Yes ☐ No ☒ N/A	
IR Gun # 4 Correction Factor 0.2 °C IR passed daily verification ☒ Yes ☐ No	
Temperature - BLANK ____ °C +/- ___ CF = ____ °C	
Temperature – COOLER (13.9 °C 12.8 °C 12.2 °C 13.5 °C) = 13.1 avg °C +/- 0.2 CF = 12.9 °C	
Samples outside temperature criteria but received within 6 hours of final sampling ☒ Yes ☐ N/A	
Sample Container(s): ☒ STL-LA ☐ Client	
One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐ No ☒ N/A	
One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒ N/A	
Samples: ☒ Intact ☐ Broken ☐ Other _____	
pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☐ N/A	
Anomalies: ☐ No ☒ Yes – complete CUR and Create NCM NCM # _____	
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☐ N/A	
Labeled by: _____ Labeling checked	
Turn Around Time: ☐ RUSH–24HR ☐ RUSH–48HR ☐ RUSH–72HR ☒ NORMAL	
Short-Hold Notification: ☐ pH ☒ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired	
Outside Analysis(es) (Test/Lab/Date Sent Out) :	
_____	
_____	
_____	SQ 1-3-05

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☐ N/A

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5A030179

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1													
VOAH/*	3													
1LPB	2													
AGB	1													
250 PB	1													

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL: Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☐ N/A _____

- **COOLERS**
  - Not Received (received COC only)
  - Leaking
  - Other:
- **CUSTODY SEALS (COOLER(S)**
  - None
  - Not Intact
  - Other
- **CONTAINER(S)**
  - None
  - Not Intact
  - Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - Cooler Temp(s)
  - Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - Not relinquished by Client; No date/time relinquished
  - Incomplete information provided
  - Other ___ COC not received – notify PM
- **CONTAINERS**
  - Leaking
  - Broken
  - Extra
  - Without Labels
  - Other:
  - Voa Vials with Bubbles > 6mm
- **LABELS**
  - Not the same ID/info as in COC
  - Incomplete information
  - Markings/Info illegible
  - Torn
- **SAMPLES**
  - Samples NOT RECEIVED but listed on COC
  - Samples received but NOT LISTED on COC
  - Logged based on Label Information
  - Logged based on info from other samples on COC
  - Logged according to Work Plan
  - Logged on HOLD UNTIL FURTHER NOTICE
  - Will be noted on COC–Client to send samples with new COC
  - Mislabeled as to tests, preservatives, etc.
  - Holding time expired – list sample ID and test
  - Improper container used
  - Not preserved/Improper preservative used
  - Improper pH _____ Lab to preserve sample and document
  - Insufficient quantities for analysis
  - Other

Comments:

Sample labels acquire labels overpower, not listed on COC's

01/03/05 Rec Teresa Goo d-mn needed

- Corrective Action Implemented:
- Client Informed: verbally on _____ By: _____ ☑ In writing on 01-03-05 By: email
- Sample(s) on hold until: _____
- Sample(s) processed "as is."

Logged by/Date: 1/3/05

PM Review/Date: 01-04-05

Clouseau
Nonconformance Memo

SEVERN TRENT STL

NCM #	05-11089		
NCM Initiated By	Kevin Freitag	Classification:	**Anomaly**
Date Opened:	01/04/2005	Status:	**PMREVIEW**
Date Closed:		Production Area:	Sample Control
		Tests:	None
		Lot #'s (Sample #'s):	E5A030179 (1),
		QC Batches:	None.,
Nonconformance:	Sample receiving issues		
Subcategory	Improper pH: Lab to preserve sample and document		

Problem Description / Root Cause

Name	Date	Description
Kevin Freitag	01/04/2005	The sample was received for dissolved manganese and was unpreserved. The lab is to filter, preserve and document.

Corrective Action

Name	Date	Corrective Action
Kevin Freitag	01/04/2005	

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position
01/04/2005	Kevin Freitag	Group Leader

Date Printed: 1/4/2005

SEVERN TRENT STL

Analytical Report

BOE-C6-0011439

EXECUTIVE SUMMARY - Detection Highlights

E5A030179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CMW002_WG010305_01 01/03/05 10:55 001				
Manganese - DISSOLVED	0.15 J	0.015	mg/L	SW846 6010B
Chlorobenzene	4900	120	ug/L	SW846 8260B
Trichloroethene	330	120	ug/L	SW846 8260B
Sulfate	89.0	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	13.8	1.0	mg/L	SW846 9060
Bromide	0.23 B	0.50	mg/L	MCAWW 300.0A

BOE-C6-0011440

METHODS SUMMARY

E5A030179

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Bromide	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Organic Carbon	SW846 9060	SW846 9060
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5A030179

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G13NR	001	CMW002_WG010305_01	01/03/05	10:55

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG010305_01

GC/MS Volatiles

Lot-Sample #...: E5A030179-001 **Work Order #...:** G13NR1AF **Matrix.....:** WG
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25 **MS Run #.....:** 5005245
Prep Date.....: 01/04/05 **Analysis Date..:** 01/04/05
Prep Batch #...: 5005400 **Analysis Time..:** 20:07
Dilution Factor: 125
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/L	380
Benzene	ND	120	ug/L	38
Bromobenzene	ND	120	ug/L	38
Bromochloromethane	ND	120	ug/L	38
Bromoform	ND	120	ug/L	38
Bromomethane	ND	250	ug/L	120
2-Butanone	ND	620	ug/L	380
n-Butylbenzene	ND	120	ug/L	38
sec-Butylbenzene	ND	120	ug/L	38
tert-Butylbenzene	ND	120	ug/L	25
Carbon disulfide	ND	120	ug/L	38
Carbon tetrachloride	ND	120	ug/L	38
Chlorobenzene	**4900**	**120**	**ug/L**	**38**
Dibromochloromethane	ND	120	ug/L	50
Bromodichloromethane	ND	120	ug/L	38
Chloroethane	ND	250	ug/L	38
Chloroform	ND	120	ug/L	38
Chloromethane	ND	250	ug/L	38
2-Chlorotoluene	ND	120	ug/L	38
4-Chlorotoluene	ND	120	ug/L	38
1,2-Dibromo-3-chloro-propane	ND	250	ug/L	88
1,2-Dibromoethane (EDB)	ND	120	ug/L	38
Dibromomethane	ND	120	ug/L	50
1,2-Dichlorobenzene	ND	120	ug/L	38
1,3-Dichlorobenzene	ND	120	ug/L	38
1,4-Dichlorobenzene	ND	120	ug/L	38
Dichlorodifluoromethane	ND	250	ug/L	50
1,1-Dichloroethane	ND	120	ug/L	25
1,2-Dichloroethane	ND	120	ug/L	50
1,1-Dichloroethene	ND	120	ug/L	38
cis-1,2-Dichloroethene	ND	120	ug/L	38
trans-1,2-Dichloroethene	ND	120	ug/L	38
1,2-Dichloropropane	ND	120	ug/L	38
1,3-Dichloropropane	ND	120	ug/L	50
2,2-Dichloropropane	ND	120	ug/L	38
1,1-Dichloropropene	ND	120	ug/L	38

(Continued on next page)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG010305_01

GC/MS Volatiles

Lot-Sample #...: E5A030179-001 **Work Order #...:** G13NR1AF **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	120	ug/L	38
trans-1,3-Dichloropropene	ND	120	ug/L	62
Ethylbenzene	ND	120	ug/L	25
Hexachlorobutadiene	ND	120	ug/L	38
2-Hexanone	ND	620	ug/L	380
Isopropylbenzene	ND	120	ug/L	38
p-Isopropyltoluene	ND	120	ug/L	38
Methylene chloride	ND	120	ug/L	38
4-Methyl-2-pentanone	ND	620	ug/L	380
Methyl tert-butyl ether	ND	120	ug/L	62
Naphthalene	ND	120	ug/L	62
n-Propylbenzene	ND	120	ug/L	50
Styrene	ND	120	ug/L	38
1,1,1,2-Tetrachloroethane	ND	120	ug/L	38
1,1,2,2-Tetrachloroethane	ND	120	ug/L	50
Tetrachloroethene	ND	120	ug/L	38
Toluene	ND	120	ug/L	38
1,2,3-Trichlorobenzene	ND	120	ug/L	50
1,2,4-Trichloro-benzene	ND	120	ug/L	38
1,1,1-Trichloroethane	ND	120	ug/L	25
1,1,2-Trichloroethane	ND	120	ug/L	38
Trichloroethene	**330**	**120**	**ug/L**	**38**
Trichlorofluoromethane	ND	250	ug/L	38
1,2,3-Trichloropropane	ND	120	ug/L	50
1,1,2-Trichlorotrifluoro-ethane	ND	120	ug/L	50
1,2,4-Trimethylbenzene	ND	120	ug/L	38
1,3,5-Trimethylbenzene	ND	120	ug/L	25
Vinyl chloride	ND	120	ug/L	38
m-Xylene & p-Xylene	ND	120	ug/L	62
o-Xylene	ND	120	ug/L	25
Xylenes (total)	ND	120	ug/L	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	86	(65 - 135)
Toluene-d8	104	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG010305_01

DISSOLVED Metals

Lot-Sample #...: E5A030179-001 **Matrix.....:** WG
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5004218						
Manganese	**0.15 J**	**0.015**	**mg/L**	**SW846 6010B**	**01/04-01/06/05**	**G13NR1AL**
		Dilution Factor: 1		Analysis Time..: 14:45	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5004116	MDL.....: 0.0010	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG010305_01

General Chemistry

Lot-Sample #...: E5A030179-001 **Work Order #...:** G13NR **Matrix.....:** WG
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.23 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**01/04/05**	**5004076**
		Dilution Factor: 1		Analysis Time..: 07:31	Analyst ID.....: 000022	
		Instrument ID..: W01		MS Run #.....: 5004046	MDL.....: 0.10	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	01/04/05	5004077
		Dilution Factor: 1		Analysis Time..: 07:31	Analyst ID.....: 0000226	
		Instrument ID..: W01		MS Run #.....: 5004047	MDL.....: 0.030	
Sulfate	**89.0**	**5.0**	**mg/L**	**MCAWW 300.0A**	**01/04/05**	**5005321**
		Dilution Factor: 5		Analysis Time..: 00:00	Analyst ID.....: 0000227	
		Instrument ID..: W01		MS Run #.....: 5005196	MDL.....: 1.0	
Total Organic Carbon (TOC)	**13.8**	**1.0**	**mg/L**	**SW846 9060**	**01/06/05**	**5006439**
		Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5007128	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

SEVERN TRENT STL

QA/QC

BOE-C6-0011447

QC DATA ASSOCIATION SUMMARY

E5A030179

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	MCAWW 300.0A		5005321	5005196
	WG	MCAWW 300.0A		5004077	5004047
	WG	SW846 9060		5006439	5007128
	WG	MCAWW 300.0A		5004076	5004046
	WG	SW846 8260B		5005400	5005245
	WG	SW846 6010B		5004218	5004116

BOE-C6-0011448

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A030179
MB Lot-Sample #: E5A050000-400

Work Order #...: G16PV1AA

Matrix.....: WATER

Prep Date.....: 01/04/05

Analysis Time..: 18:29

Analysis Date..: 01/04/05
Dilution Factor: 1

Prep Batch #...: 5005400

Instrument ID..: MSR

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A030179 **Work Order #...:** G16PV1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	86	(65 - 135)
Toluene-d8	101	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: E5A030179 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5A040000-218 **Prep Batch #...:** 5004218						
Manganese	**0.0010 B**	**0.015**	**mg/L**	**SW846 6010B**	**01/04-01/06/05**	**G14CK1AA**

Dilution Factor: 1

Analysis Time..: 14:31 Analyst ID.....: 021088 Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5A030179 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G130K1AA		MB Lot-Sample #:	E5A040000-076	
	ND	0.50	mg/L	MCAWW 300.0A	01/04/05	5004076
		Dilution Factor: 1				
		Analysis Time..: 07:15		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: G130M1AA		MB Lot-Sample #:	E5A040000-077	
	0.036 B	**0.10**	**mg/L**	**MCAWW 300.0A**	**01/04/05**	**5004077**
		Dilution Factor: 1				
		Analysis Time..: 07:15		Analyst ID.....: 000022	Instrument ID..: W01	
Sulfate		Work Order #: G16HK1AA		MB Lot-Sample #:	E5A050000-321	
	ND	1.0	mg/L	MCAWW 300.0A	01/04/05	5005321
		Dilution Factor: 1				
		Analysis Time..: 07:15		Analyst ID.....: 000022	Instrument ID..: W01	
Total Organic Carbon (TOC)		Work Order #: G180W1AA		MB Lot-Sample #:	E5A060000-439	
	ND	1.0	mg/L	SW846 9060	01/06/05	5006439
		Dilution Factor: 1				
		Analysis Time..: 18:11		Analyst ID.....: 999995	Instrument ID..: W08	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A030179 **Work Order #...:** G16PV1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A050000-400
Prep Date.....: 01/04/05 **Analysis Date..:** 01/04/05
Prep Batch #...: 5005400 **Analysis Time..:** 17:47
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**84**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**81**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**94**	**(65 - 135)**	**SW846 8260B**
Toluene	**85**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**80**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A030179 **Work Order #...:** G16PV1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5A050000-400
Prep Date.....: 01/04/05 **Analysis Date..:** 01/04/05
Prep Batch #...: 5005400 **Analysis Time..:** 17:47
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**8.36**	**ug/L**	**84**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.10**	**ug/L**	**81**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.41**	**ug/L**	**94**	**SW846 8260B**
Toluene	**10.0**	**8.48**	**ug/L**	**85**	**SW846 8260B**
Trichloroethene	**10.0**	**8.05**	**ug/L**	**80**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	85	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A030179 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A040000-218 **Prep Batch #...:** 5004218					
Manganese	95	(85 - 120)	SW846 6010B	01/04-01/06/05	G14CK1AC

Dilution Factor: 1 Analysis Time..: 14:36 Analyst ID.....: 021088
Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A030179 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5A040000-218 **Prep Batch #...:** 5004218							
Manganese	0.500	0.476	mg/L	95	SW846 6010B	01/04-01/06/05	G14CK1AC

Dilution Factor: 1 Analysis Time..: 14:36 Analyst ID.....: 021088

Instrument ID..: M01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0011456

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A030179 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: G130K1AC	LCS Lot-Sample#: E5A040000-076		
	99	(90 - 110)	MCAWW 300.0A	01/04/05	5004076
		Dilution Factor: 1	Analysis Time..: 06:58	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: G130M1AC	LCS Lot-Sample#: E5A040000-077		
	101	(90 - 110)	MCAWW 300.0A	01/04/05	5004077
		Dilution Factor: 1	Analysis Time..: 06:58	Analyst ID.....: 000022	
		Instrument ID..: W01			
Sulfate		Work Order #: G16HK1AC	LCS Lot-Sample#: E5A050000-321		
	101	(90 - 110)	MCAWW 300.0A	01/04/05	5005321
		Dilution Factor: 1	Analysis Time..: 06:58	Analyst ID.....: 000022	
		Instrument ID..: W01			
Total Organic Carbon (TOC)		Work Order #: G180W1AC	LCS Lot-Sample#: E5A060000-439		
	93	(85 - 115)	SW846 9060	01/06/05	5006439
		Dilution Factor: 1	Analysis Time..: 18:11	Analyst ID.....: 999995	
		Instrument ID..: W08			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A030179 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			Work Order #: G130K1AC		LCS Lot-Sample#:	E5A040000-076	
	5.00	4.96	mg/L	99	MCAWW 300.0A	01/04/05	5004076
			Dilution Factor: 1		Analysis Time..: 06:58	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: G130M1AC		LCS Lot-Sample#:	E5A040000-077	
	5.00	5.06	mg/L	101	MCAWW 300.0A	01/04/05	5004077
			Dilution Factor: 1		Analysis Time..: 06:58	Analyst ID.....: 000022	
			Instrument ID..: W01				
Sulfate			Work Order #: G16HK1AC		LCS Lot-Sample#:	E5A050000-321	
	25.0	25.3	mg/L	101	MCAWW 300.0A	01/04/05	5005321
			Dilution Factor: 1		Analysis Time..: 06:58	Analyst ID.....: 000022	
			Instrument ID..: W01				
Total Organic Carbon (TOC)			Work Order #: G180W1AC		LCS Lot-Sample#:	E5A060000-439	
	25.0	23.2	mg/L	93	SW846 9060	01/06/05	5006439
			Dilution Factor: 1		Analysis Time..: 18:11	Analyst ID.....: 999995	
			Instrument ID..: W08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5A030179 **Work Order #...:** G13NR1AT-MS **Matrix.....:** WG
MS Lot-Sample #: E5A030179-001 G13NR1AU-MSD
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25 **MS Run #.....:** 5005245
Prep Date.....: 01/04/05 **Analysis Date..:** 01/05/05
Prep Batch #...: 5005400 **Analysis Time..:** 03:06
Dilution Factor: 125 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**91**	**(75 - 125)**			**SW846 8260B**
	90	**(75 - 125)**	**0.35**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**78**	**(75 - 125)**			**SW846 8260B**
	97	**(75 - 125)**	**4.0**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**101**	**(65 - 135)**			**SW846 8260B**
	103	**(65 - 135)**	**2.1**	**(0-25)**	**SW846 8260B**
Toluene	**90**	**(75 - 125)**			**SW846 8260B**
	95	**(75 - 125)**	**4.8**	**(0-25)**	**SW846 8260B**
Trichloroethene	**88**	**(75 - 135)**			**SW846 8260B**
	90	**(75 - 135)**	**1.6**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
	97	(75 - 130)
1,2-Dichloroethane-d4	76	(65 - 135)
	75	(65 - 135)
Toluene-d8	103	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E5A030179	**Work Order #...:**	G13NR1AT-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5A030179-001		G13NR1AU-MSD		
Date Sampled...:	01/03/05 10:55	**Date Received..:**	01/03/05 13:25	**MS Run #.....:**	5005245
Prep Date.....:	01/04/05	**Analysis Date..:**	01/05/05		
Prep Batch #...:	5005400	**Analysis Time..:**	03:06		
Dilution Factor:	125	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**1250**	**1130**	**ug/L**	**91**		**SW846 8260B**
	ND	**1250**	**1130**	**ug/L**	**90**	**0.35**	**SW846 8260B**
Chlorobenzene	**4900**	**1250**	**5860**	**ug/L**	**78**		**SW846 8260B**
	4900	**1250**	**6100**	**ug/L**	**97**	**4.0**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**1250**	**1260**	**ug/L**	**101**		**SW846 8260B**
	ND	**1250**	**1290**	**ug/L**	**103**	**2.1**	**SW846 8260B**
Toluene	**ND**	**1250**	**1130**	**ug/L**	**90**		**SW846 8260B**
	ND	**1250**	**1190**	**ug/L**	**95**	**4.8**	**SW846 8260B**
Trichloroethene	**330**	**1250**	**1440**	**ug/L**	**88**		**SW846 8260B**
	330	**1250**	**1460**	**ug/L**	**90**	**1.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
	97	(75 - 130)
1,2-Dichloroethane-d4	76	(65 - 135)
	75	(65 - 135)
Toluene-d8	103	(80 - 130)
	106	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5A030179 **Matrix.....:** WG
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A030179-001 **Prep Batch #...:** 5004218							
Manganese	99	(85 - 120)			SW846 6010B	01/04-01/06/05	G13NR1AM
	93	(85 - 120)	4.6	(0-20)	SW846 6010B	01/04-01/06/05	G13NR1AN

Dilution Factor: 1
Analysis Time..: 14:58 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5004116

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5A030179 **Matrix.....:** WG
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5A030179-001 **Prep Batch #...:** 5004218									
Manganese									
	0.15	0.500	0.638	mg/L	99		SW846 6010B	01/04-01/06/05	G13NR1AM
	0.15	0.500	0.609	mg/L	93	4.6	SW846 6010B	01/04-01/06/05	G13NR1AN

Dilution Factor: 1
Analysis Time..: 14:58 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5004116

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A030179 **Matrix.....:** WG
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: G13NR1AG-MS/G13NR1AH-MSD MS Lot-Sample #: E5A030179-001					
	102	(80 - 120)			MCAWW 300.0A	01/04/05	5004076
	101	(80 - 120)	0.94	(0-20)	MCAWW 300.0A	01/04/05	5004076
		Dilution Factor: 1					
		Analysis Time..: 08:04 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5004046					
Nitrate as N		WO#: G13NR1AJ-MS/G13NR1AK-MSD MS Lot-Sample #: E5A030179-001					
	100	(80 - 120)			MCAWW 300.0A	01/04/05	5004077
	99	(80 - 120)	1.4	(0-20)	MCAWW 300.0A	01/04/05	5004077
		Dilution Factor: 1					
		Analysis Time..: 08:04 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5004047					
Sulfate		WO#: G13NR1AQ-MS/G13NR1AR-MSD MS Lot-Sample #: E5A030179-001					
	98	(80 - 120)			MCAWW 300.0A	01/04/05	5005321
	101	(80 - 120)	1.9	(0-20)	MCAWW 300.0A	01/04/05	5005321
		Dilution Factor: 1					
		Analysis Time..: 08:54 Instrument ID..: W01 Analyst ID.....: 000022					
		MS Run #.....: 5005196					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A030179 **Matrix.....:** WG
Date Sampled...: 01/03/05 10:55 **Date Received..:** 01/03/05 13:25

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: G13NR1AG-MS/G13NR1AH-MSD MS Lot-Sample #: E5A030179-001						
	0.23	2.50	2.77	mg/L	102		MCAWW 300.0A	01/04/05	5004076
	0.23	2.50	2.75	mg/L	101	0.94	MCAWW 300.0A	01/04/05	5004076
			Dilution Factor: 1						
			Analysis Time..: 08:04		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5004046						
Nitrate as N			WO#: G13NR1AJ-MS/G13NR1AK-MSD MS Lot-Sample #: E5A030179-001						
	ND	2.50	2.50	mg/L	100		MCAWW 300.0A	01/04/05	5004077
	ND	2.50	2.46	mg/L	99	1.4	MCAWW 300.0A	01/04/05	5004077
			Dilution Factor: 1						
			Analysis Time..: 08:04		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5004047						
Sulfate			WO#: G13NR1AQ-MS/G13NR1AR-MSD MS Lot-Sample #: E5A030179-001						
	89.0	125	211	mg/L	98		MCAWW 300.0A	01/04/05	5005321
	89.0	125	215	mg/L	101	1.9	MCAWW 300.0A	01/04/05	5005321
			Dilution Factor: 1						
			Analysis Time..: 08:54		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5005196						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5A030179 **Matrix.....:** WATER
Date Sampled...: 01/04/05 14:43 **Date Received..:** 01/04/05 18:42

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	WO#: G15C61AJ-MS/G15C61AK-MSD MS Lot-Sample #: E5A050141-006						
	93	(85 - 115)			SW846 9060	01/06/05	5006439
	93	(85 - 115)	0.45	(0-20)	SW846 9060	01/06/05	5006439

Dilution Factor: 1
Analysis Time..: 18:11 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5007128

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A030179 **Matrix.....:** WATER
Date Sampled...: 01/04/05 14:43 **Date Received..:** 01/04/05 18:42

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			WO#: G15C61AJ-MS/G15C61AK-MSD				MS Lot-Sample #: E5A050141-006		
	3.4	25.0	26.6	mg/L	93		SW846 9060	01/06/05	5006439
	3.4	25.0	26.7	mg/L	93	0.45	SW846 9060	01/06/05	5006439

Dilution Factor: 1
Analysis Time..: 18:11 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5007128

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

VAPORTECH Services, Inc.

Analytical Laboratory & Geoprobe Sampling

1/14/05

Mr. David Poley
Arcadis
1400 N. Harbor Blvd.
Fullerton, CA 92835

JAN 28 2005

Dear David:

Enclosed are the sample data report, chain of custody record and quality control data for the samples received on January 8, 2005 for your project; Boeing C-6.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc.

AGM148A-5027

Arcadis
Project: Boeing C-6

SAMPLE NAME	CARBON DIOXIDE (mg/l)	OXYGEN (mg/l)	NITROGEN (mg/l)	METHANE (ug/l)	ETHANE (ng/l)	ETHENE (ng/l)	FILE NAME	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
CMW002-WG010305-01	12.1	1.07	10.5	0.8	131	120	D31A/B1.99A	01/03/2005	01/08/2005	01/11/2005
IRZMW002B-WG010405-01	16.8	3.21	9.4	1.8	21	12	D31A/B2.00A	01/04/2005	01/08/2005	01/11/2005
IRZMW001A-WG010405-01	41.6	0.49	5.9	488.2	11	21	D31A/B2.01A	01/04/2005	01/08/2005	01/11/2005
IRZMW001B-WG010405-01	17.0	4.90	12.0	0.3	19	10	D31A/B2.02A	01/04/2005	01/08/2005	01/11/2005
IRZMW003A-WG010405-01	156.3	3.56	15.6	912.9	12	81	D31A/B2.03A	01/04/2005	01/08/2005	01/11/2005
IRZMW003B-WG010405-01	18.3	3.97	12.0	31.7	9	12	D31A/B2.04A	01/04/2005	01/08/2005	01/11/2005
IRZMW002A-WG010405-01	47.9	1.76	5.2	5.0	41	248	D31A/B2.05A	01/04/2005	01/08/2005	01/11/2005
IRZCMW001-WG010405-01	16.5	0.72	10.9	6810.0	ND	179	D31A/B2.06A	01/04/2005	01/08/2005	01/11/2005
IRZMW002-WG010505-01	6.8	0.83	9.9	0.3	32	20	D31A/B2.07A	01/05/2005	01/08/2005	01/11/2005
CMW0026-WG010505-01	3.4	0.89	5.5	2038.1	ND	113	D31A/B2.08A	01/05/2005	01/08/2005	01/11/2005
IRZCMW003-WG010505-01	11.5	0.93	15.0	4.3	22	45	D31A/B2.09A	01/05/2005	01/08/2005	01/11/2005
CMW001-WG010505-01	11.8	0.94	10.1	12.8	251	444	D31A/B2.10A	01/05/2005	01/08/2005	01/11/2005
IRZMW004-WG010505-01	16.6	3.08	10.3	2.2	24	13	D31A/B2.11A	01/05/2005	01/08/2005	01/11/2005
IRZB0095-WG010505-01	252.8	0.30	6.0	3.9	54	248	D31A/B2.12A	01/05/2005	01/08/2005	01/11/2005
IRZB0081-WG010505-01*	750.2	2.00	6.8	183.8	29	97	D31A/B2.13A	01/05/2005	01/08/2005	01/11/2005
IRZMW005-WG010505-01	362.0	2.81	14.5	3998.1	32	318	D31A/B2.14A	01/05/2005	01/08/2005	01/11/2005
MDL	0.4	0.15	0.4	0.2	5	5				

MDL - denotes lower 'Method Detection Limit'

ND - denotes 'Not Detected' at or above the lower method detection limit

* Reported amount is above the compound's highest initial calibration point .

14-Jan-2005

Reviewed by _____

BOE-C6-0011468

Vaportech Services, Inc.

AGM148A-5027

Arcadis
Project: Boeing C-6

QUALITY CONTROL

CONTINUING CALIBRATION CHECK (TCD)

STANDARD: "237"
FILE NAME: D31B1.98A

COMPOUND	KNOWN (%)	RESULT (%)	PERCENT DIFFERENCE
Carbon Dioxide	15.00	15.29	1.95
Oxygen	7.00	7.11	1.50
Nitrogen	66.49	66.71	0.32
Methane	4.50	4.43	1.64

LABORATORY BLANK RESULTS (TCD)

BLANK: CARRIER IN LOOP
FILE NAME: D31B1.96A

COMPOUND	BLANK (%)	METHOD DETECTION LIMIT (%)
Carbon Dioxide	ND	0.02
Oxygen	ND	0.03
Nitrogen	ND	0.10
Methane	ND	0.03

CONTINUING CALIBRATION CHECK (FID)

STANDARD: "54"
FILE NAME: D31A1.97A

COMPOUND	KNOWN PPMV	RESULT PPMV	PERCENT DIFFERENCE
Methane	15.10	15.79	4.60
Ethane	15.00	16.39	9.26
Ethene	15.10	17.00	12.58

LABORATORY BLANK RESULTS (FID)

BLANK: CARRIER IN LOOP
FILE NAME: D31A1.96A

COMPOUND	BLANK PPMV	METHOD DETECTION LIMIT PPMV
Methane	ND	1.00
Ethane	ND	0.01
Ethene	ND	0.01

ND - denotes 'Not Detected' at or above the lower method detection limit

14-Jan-2005

Reviewed by _____

AGM148A-5027

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.
1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: ARCADIS
Address: 1400 N. Harbor Blvd. Suite 700
City: Fullerton State: CA Zip: 92835
Proj. Manager: David Poley
Proj. Location: Boeing C-6
Proj. Number:
Phone #: (714) 278-0992 Fax #: (714) 278-0051

Sampler's signature: Humberto P. Hernandez

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
1/3/05	1055	2	Liquid	~~Groundwater~~ HCA CMW002_WG010305-01	B					B= Dissolved Oxygen, Carbon
1/4/05	0927	2	Liquid	IRZMW002B_WG010405_01	B					Dioxide, Nitrogen, Methane,
1/4/05	1054	2	Liquid	IRZMW001A_WG010405_01	B					Ethane and Ethene
1/4/05	1250	2	Liquid	IRZMW001B_WG010405-01	B					
1/4/05	1351	2	Liquid	IRZMW003A_WG010405-01	B					
1/4/05	1443	2	Liquid	IRZMW003B_WG010405-01	B					
1/4/05	1543	2	Liquid	IRZMW002A-WG010405_01	B					
1/4/05	1633	2	Liquid	IRZ~~MW~~ HCA CMW001_WG010405_01	B					
1/5/05	0934	2	Liquid	IRZMW002_WG010505_01	B					
1/5/05	1046	2	Liquid	* HCA CMW0026_WG010505-01	B					*CMW026-WG010505_01 ← vials label
1/5/05	1143	2	Liquid	IRZ HCA CMW003_WG010505-01	B					
1/5/05	1330	2	Liquid	CMW001_WG010505-01	B					

Results to : David Poley

Invoice to : David Poley

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ARCADIS	1/7/05		FED-EX		1/7/05	
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				D.J. Mead	VAPORTECH	1-8-05	9:45
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

AFM 14fa-5027

2 of 2

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.
1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: ARCADIS
Address: 1400 N. Harbor Blvd, Suite 700
City: Fullerton State: CA Zip: 92835
Proj. Manager: David Poley
Proj. Location: Boeing C-6
Proj. Number:
Phone #: (714) 278-0992 Fax #: (714) 278-0051

Sampler's signature: Humberto P. Hernandez

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Collection Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
1/5/05	1438	2	Liquid	IRZMW004_WG010505_01	B					B = Dissolved Oxygen, Carbon Dioxide, Nitrogen, Methane, Ethane and Ethene
1/5/05	1541	2	Liquid	IRZB0095_WG010505_01	B					
1/5/05	1649	2	Liquid	IRZB0081_WG010505_01	B					
1/5/05	1749	2	Liquid	IRZMW005_WG010505_01	B					

Results to : David Poley

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ARCADIS	1/7/05		FED-EX			
Relinquished by :	Company :	Date :	Time :	Received by : D.J. Mac[signature]	Company : Vaportech	Date : 1-8-05	Time : 9:45
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

BOE-C6-0011471

microseeps
from insight comes solutions

APR 0 7 2005

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Laboratory Results

Total pages in data package: 19

Lab Sample #	Client Sample ID		
P0503371-01	CMW001-WG031805-01	P0503371-16	SAMPLE B
P0503371-02	IRZMW002B-WG031905-01		
P0503371-03	IRZMW001A-WG031905-01		
P0503371-04	IRZMW001B-WG031905-01		
P0503371-05	IRZMW003B-WG031905-01		
P0503371-06	IRZMW002A-WG031905-01		
P0503371-07	IRZCMW002-WG031905-01		
P0503371-08	IRZCMW001-WG031905-01		
P0503371-09	CMW0026-WG031905-01		
P0503371-10	IRZCMW003-WG031905-01		
P0503371-11	IRZMW004-WG032005-01		
P0503371-12	IRZB0095-WG032005-01		
P0503371-13	IRZB0081-WG032005-01		
P0503371-14	IRZMW005-WG032005-01		
P0503371-15	SAMPLE A		

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Rebecca J. Hans

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email bhans@microseeps.com

Case Narrative:

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
CMW001-WG031805-01	Water	P0503371-01	18 Mar. 05 17:51	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	15	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	420	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	350	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	22	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	22	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	3.1	0.25	mg/L	AM20GAX	4/1/05	jl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW002B-WG031905-01	Water	P0503371-02	19 Mar. 05 7:36	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	91	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	71	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	120	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	24	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	26	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	3.0	0.25	mg/L	AM20GAX	4/1/05	jl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW001A-WG031905-01	Water	P0503371-03	19 Mar. 05 8:37	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	74	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	<5.0	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	<5.0	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	5600	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	18	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	3.3	0.25	mg/L	AM20GAX	4/1/05	jl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW001B-WG031905-01	Water	P0503371-04	19 Mar. 05 9:42	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	26	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	26	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	15	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	74	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	22	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	8.8	0.25	mg/L	AM20GAX	4/1/05	jl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW003B-WG031905-01	Water	P0503371-05	19 Mar. 05 12:25	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	21	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	17	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	18	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	92	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	24	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	6.6	0.25	mg/L	AM20GAX	4/1/05	jl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW002A-WG031905-01	Water	P0503371-06	19 Mar. 05 13:15	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	66	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	82	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	1100	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	230	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	18	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	5.6	0.25	mg/L	AM20GAX	4/1/05	jl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZCMW002-WG031905-01	Water	P0503371-07	19 Mar. 05 14:13	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	5.5	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	78	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	510	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	4.9	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	26	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	1.9	0.25	mg/L	AM20GAX	4/1/05	jl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZCMW001-WG031905-01	Water	P0503371-08	19 Mar. 05 15:33	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	19	0.60	mg/L	AM20GAX	4/1/05	jl
Ethane	<5.0	5.0	ng/L	AM20GAX	4/1/05	jl
Ethene	310	5.0	ng/L	AM20GAX	4/1/05	jl
Methane	11000	0.015	ug/L	AM20GAX	4/1/05	jl
Nitrogen	16	0.40	mg/L	AM20GAX	4/1/05	jl
Oxygen	3.3	0.25	mg/L	AM20GAX	4/1/05	jl

nelac N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
CMW0026-WG031905-01	Water	P0503371-09	19 Mar. 05 16:20	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	7.8	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	7.2	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	350	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	2100	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	25	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	7.6	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZCMW003-WG031905-01	Water	P0503371-10	19 Mar. 05 17:18	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	13	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	40	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	170	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	22	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	33	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	5.8	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW004-WG032005-01	Water	P0503371-11	20 Mar. 05 7:49	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	38	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	84	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	220	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	21	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	27	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	6.5	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZB0095-WG032005-01	Water	P0503371-12	20 Mar. 05 9:15	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	160	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	11	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	340	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	3100	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	23	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	2.7	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZB0081-WG032005-01	Water	P0503371-13	20 Mar. 05 10:25	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	790	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	29	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	170	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	5300	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	5.7	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	0.34	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW005-WG032005-01	Water	P0503371-14	20 Mar. 05 11:00	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	380	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	<5.0	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	790	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	10000	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	14	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	2.3	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
SAMPLE A	Water	P0503371-15	18 Mar. 05 0:00	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	15	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	240	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	79	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	14	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	31	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	5.9	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Proj #: P0503371
Report Date: 04/04/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
SAMPLE B	Water	P0503371-16	18 Mar. 05 0:00	22 Mar. 05 11:46

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	150	0.60	mg/L	AM20GAX	4/1/05	sl
Ethane	<5.0	5.0	ng/L	AM20GAX	4/1/05	sl
Ethene	37	5.0	ng/L	AM20GAX	4/1/05	sl
Methane	3600	0.015	ug/L	AM20GAX	4/1/05	sl
Nitrogen	26	0.40	mg/L	AM20GAX	4/1/05	sl
Oxygen	5.9	0.25	mg/L	AM20GAX	4/1/05	sl

N - NELAC certified analysis

P0503371

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 | **Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238** | Fax No. : (412) 826-3433

Company : ARCADIS
Co. Address : 1400 N. Harbor Blvd, Suite 900, Fullerton, CA 92835
Proj. Manager: David Poley
Proj. Location: Boeing C-6
Proj. Number: CA594.06.06
Phone # : (714) 278-0992 **Fax # :** (714) 278-0051

Sampler's signature :

Results to : David Poley

Invoice to :

Cooler ID	Cooler Temp.

	Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Dissolved Oxygen	Carbon Dioxide	Nitrogen	Methane	Ethane	Ethene			Remarks
11	IRZMW	004_WG032005_01	3/20/05	0749		✓	2	X	X	X	X	X	X			
12	IRZBOO	95_WG032005_01	3/20/05	0915		✓	2	X	X	X	X	X	X			
13	IRZDOO	84_WG032005_01	3/20/05	1025		✓	2	X	X	X	X	X	X			
14	IRZMW	05_WG032005_01	3/20/05	1100		✓	2	X	X	X	X	X	X			
15	SAMPLE "A"		3/18-19/05			✓	2	X	X	X	X	X	X			
16	SAMPLE "B"		3/18-19/05			✓	2	X	X	X	X	X	X			

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ARCADIS	3/21/05	0730	[signature]	ARCADIS	3/21/05	0730
Relinquished by :	Company : FEDEX #792235344444	Date : 3/21/05	Time : —	Received by : Washlash	Company : Microseeps	Date : 3/22/05	Time : 1139
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

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BOE-C6-0011489

P0503371

298 B

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 **Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238** Fax No. : (412) 826-3433

Company : ARCADIS
Co. Address : 1400 N. Harbor Blvd., Suite 700, Fullerton, CA 92835
Proj. Manager: David Poley
Proj. Location: Boeing C-6
Proj. Number: CA594.06.06
Phone # : (714) 278-0992 **Fax # :** (714) 278-0051

Sampler's signature : Humberto P. Hernandez

Results to : David Poley

Invoice to :

Cooler ID	Cooler Temp.

	Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Dissolved Oxygen	Carbon Dioxide	Nitrogen	Methane	Ethane	Ethene			Remarks
	~~CMW0005_WG031805_01~~		~~3/18/05~~	~~1637~~		✓	2	X	X	X	X	X	X			NO LABEL - PP 3/21
01	CMW001_WG031805_01		3/18/05	1751		✓	2	X	X	X	X	X	X			
02	IRZMW002B_WG031905_01		3/19/05	0736		✓	2	X	X	X	X	X	X			
03	IRZMW001A_WG031905_01		3/19/05	0837		✓	2	X	X	X	X	X	X			
04	IRZMW001B_WG031905_01		3/19/05	0942		✓	2	X	X	X	X	X	X			
	~~IRZMW003A_WG031905_01~~		~~3/19/05~~	~~1059~~		✓	2	X	X	X	X	X	X			NO LABEL - PP 3/21
05	IRZMW003B_WG031905_01		3/19/05	1225		✓	2	X	X	X	X	X	X	✓		
06	IRZMW002A_WG031905_01		3/19/05	1315		✓	2	X	X	X	X	X	X			
07	IRZCMW002_WG031905_01		3/19/05	1413		✓	2	X	X	X	X	X	X			
08	IRZCMW001_WG031905_01		3/19/05	1533		✓	2	X	X	X	X	X	X			
09	CMW0026_WG031905_01		3/19/05	1620		✓	2	X	X	X	X	X	X			
10	IRZCMW003_WG031905_01		3/19/05	1718		✓	2	X	X	X	X	X	X			

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ARCADIS	03/21/05	0730	[signature]	ARCADIS	03/21/05	0730
Relinquished by :	Company : FEDEX #792235344144	Date : 3/21/05	Time :	Received by : [signature]	Company : Microseeps	Date : 3/22/05	Time : 1139
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

XXXXXXXX

BOE-C6-0011490

microseeps
from insight comes solutions

Client Name:	Arcadis	Page:	Page 1 of 11
Contact:	Dave Poley	Lab Proj #:	P0502020
Address:	1400 North Harbor Avenue	Report Date:	02/08/05
	Suite 200	Client Proj Name:	Boeing C-6
	Fullerton, CA 92835	Client Proj #:	CA594 06 06

Laboratory Results

Total pages in data package: _____

Lab Sample #	Client Sample ID
P0502020-01	IRZMW002B_WG012705_01
P0502020-02	IRZMW002A_WG012705_01
P0502020-03	IRZMW001A_WG012705_01
P0502020-05	IRZMW003A_WG012705_01
P0502020-06	IRZMW003B_WG012705_01
P0502020-07	CMW026 _WG012805_01
P0502020-08	IRZB0095_WG012805_01
P0502020-09	IRZCMW003_WG012805_01
P0502020-10	IRZMW005_WG012805_01
P0502020-11	IRZB0081_WG012805_01

Microseeps test results meet all the requirements of the NELAC standards

Approved By: Debra J. Hans

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer servce at (412)826-5245 or email bhans@microseeps com

Case Narrative: Per the conversation on 2/7/05 with the client, the analysis for sample IRZMW001B-MG012705-01 (P0502020-04) was deleted from the analytical program due to insufficient pressure in both vials that the lab received.

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433
website www.microseeps.com email info@microseeps.com

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-01

Sample Description	Matrix	Sampled Date/Time	Received
IRZMW002B_WG012705_01	Water	27 Jan. 05 10:39	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	20	0.60	mg/L	AM20GAX	jl	2/4/2005
Nitrogen	16	0.40	mg/L	AM20GAX	jl	2/4/2005
Oxygen	4.5	0.25	mg/L	AM20GAX	jl	2/4/2005
Ethane	38	5.0	ng/L	AM20GAX	jl	2/4/2005
Ethene	180	5.0	ng/L	AM20GAX	jl	2/4/2005
Methane	10	0.015	ug/L	AM20GAX	jl	2/4/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06 06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-02

Sample Description	Matrix	Sampled Date/Time	Received
IRZMW002A_WG012705_01	Water	27 Jan. 05 13:20	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	53	0.60	mg/L	AM20GAX	jl	2/4/2005
Nitrogen	17	0.40	mg/L	AM20GAX	jl	2/4/2005
Oxygen	5.1	0.25	mg/L	AM20GAX	jl	2/4/2005
Ethane	79	5.0	ng/L	AM20GAX	jl	2/4/2005
Ethene	720	5.0	ng/L	AM20GAX	jl	2/4/2005
Methane	16	0.015	ug/L	AM20GAX	jl	2/4/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594 06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-03

Sample Description	Matrix	Sampled Date/Time	Received
IRZMW001A_WG012705_01	Water	27 Jan. 05 14:16	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	55	0.60	mg/L	AM20GAX	jl	2/4/2005
Nitrogen	16	0.40	mg/L	AM20GAX	jl	2/4/2005
Oxygen	2.0	0.25	mg/L	AM20GAX	jl	2/4/2005
Ethane	32	5.0	ng/L	AM20GAX	jl	2/4/2005
Ethene	94	5.0	ng/L	AM20GAX	jl	2/4/2005
Methane	2600	0.015	ug/L	AM20GAX	jl	2/4/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-05

Sample Description	Matrix	Sampled Date/Time	Received
IRZMW003A_WG012705_01	Water	27 Jan. 05 16:05	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	160	0.60	mg/L	AM20GAX	jl	2/4/2005
Nitrogen	15	0.40	mg/L	AM20GAX	jl	2/4/2005
Oxygen	2.5	0.25	mg/L	AM20GAX	jl	2/4/2005
Ethane	<5.0	5.0	ng/L	AM20GAX	jl	2/4/2005
Ethene	93	5.0	ng/L	AM20GAX	jl	2/4/2005
Methane	3100	0.015	ug/L	AM20GAX	jl	2/4/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06 06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-06

Sample Description	Matrix	Sampled Date/Time	Received
IRZMW003B_WG012705_01	Water	27 Jan. 05 16:43	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	20	0.60	mg/L	AM20GAX	jl	2/4/2005
Nitrogen	22	0.40	mg/L	AM20GAX	jl	2/4/2005
Oxygen	7.0	0.25	mg/L	AM20GAX	jl	2/4/2005
Ethane	<5.0	5.0	ng/L	AM20GAX	jl	2/4/2005
Ethene	29	5.0	ng/L	AM20GAX	jl	2/4/2005
Methane	9.3	0.015	ug/L	AM20GAX	jl	2/4/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-07

Sample Description	Matrix	Sampled Date/Time	Received
CMW026 _WG012805_01	Water	28 Jan. 05 9:22	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	45	0.60	mg/L	AM20GAX	jl	2/4/2005
Nitrogen	11	0.40	mg/L	AM20GAX	jl	2/4/2005
Oxygen	2.4	0.25	mg/L	AM20GAX	jl	2/4/2005
Ethane	<5.0	5.0	ng/L	AM20GAX	jl	2/4/2005
Ethene	420	5.0	ng/L	AM20GAX	jl	2/4/2005
Methane	17000	0.015	ug/L	AM20GAX	jl	2/4/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-08

Sample Description	Matrix	Sampled Date/Time	Received
IRZB0095_WG012805_01	Water	28 Jan. 05 12:07	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	320	0.60	mg/L	AM20GAX	jl	2/4/2005
Nitrogen	12	0.40	mg/L	AM20GAX	jl	2/4/2005
Oxygen	0.47	0.25	mg/L	AM20GAX	jl	2/4/2005
Ethane	86	5.0	ng/L	AM20GAX	jl	2/4/2005
Ethene	410	5.0	ng/L	AM20GAX	jl	2/4/2005
Methane	19	0.015	ug/L	AM20GAX	jl	2/4/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-09

Sample Description	Matrix	Sampled Date/Time	Received
IRZCMW003_WG012805_01	Water	28 Jan. 05 13:19	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	11	0.60	mg/L	AM20GAX	jl	2/7/2005
Nitrogen	21	0.40	mg/L	AM20GAX	jl	2/7/2005
Oxygen	3.2	0.25	mg/L	AM20GAX	jl	2/7/2005
Ethane	76	5.0	ng/L	AM20GAX	jl	2/7/2005
Ethene	110	5.0	ng/L	AM20GAX	jl	2/7/2005
Methane	8.4	0.015	ug/L	AM20GAX	jl	2/7/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-10

Sample Description	Matrix	Sampled Date/Time	Received
IRZMW005_WG012805_01	Water	28 Jan 05 14:32	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	270	0.60	mg/L	AM20GAX	jl	2/7/2005
Nitrogen	13	0.40	mg/L	AM20GAX	jl	2/7/2005
Oxygen	0.81	0.25	mg/L	AM20GAX	jl	2/7/2005
Ethane	65	5.0	ng/L	AM20GAX	jl	2/7/2005
Ethene	250	5.0	ng/L	AM20GAX	jl	2/7/2005
Methane	3600	0.015	ug/L	AM20GAX	jl	2/7/2005

N - NELAC certified analysis

Lab Proj #: P0502020
Report Date: 02/08/05
Client Proj Name: Boeing C-6
Client Proj #: CA594.06.06

Client Name: Arcadis
Contact: Dave Poley
Address: 1400 North Harbor Avenue
Suite 200
Fullerton, CA 92835

Lab Sample #: P0502020-11

Sample Description	Matrix	Sampled Date/Time	Received
IRZB0081_WG012805_01	Water	28 Jan. 05 15:31	01 Feb. 05

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Carbon dioxide	800	0.60	mg/L	AM20GAX	jl	2/7/2005
Nitrogen	5.3	0.40	mg/L	AM20GAX	jl	2/7/2005
Oxygen	<0.25	0.25	mg/L	AM20GAX	jl	2/7/2005
Ethane	120	5.0	ng/L	AM20GAX	jl	2/7/2005
Ethene	200	5.0	ng/L	AM20GAX	jl	2/7/2005
Methane	3100	0.015	ug/L	AM20GAX	jl	2/7/2005

N - NELAC certified analysis