ARCADIS

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:
Second Quarter 2005 Discharge Monitoring Report - Draft
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:
July 22, 2005

Contact:
Barry Molnaa

Phone:
3023

Email:
bmolnaa@arcadis-us.com

Project Number:
CA000663.0001.00005

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 second quarter of 2005. Amendment activities performed 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 second quarter of 2005.

2.0 Monitoring Activities

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

Week 36 post-injection groundwater monitoring was conducted on June 15, 2005. During Week 36 of post-injection monitoring, 12 monitoring wells (IRZMW001A/B, IRZMW002A/B, IRZMW004, IRZMW005, IRZCMW001, IRZCMW002, IRZCMW003, CMW001, CMW002, and CMW026) were gauged. Four monitoring wells (IRZMW004, IRZCMW002, CMW001, and CMW002) were sampled. The monitoring well locations are identified on Figure 2. The groundwater samples from Week 36 post-injection monitoring were analyzed for volatile organic compounds (VOCs), total organic carbon (TOC), bromide, total iron, total manganese, 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, pH, DO, oxidation reduction potential [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 June 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.

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 Eric Lothman at (714) 278-0992.

Sincerely,

ARCADIS G&M, Inc.

Eric Lothman, P.E.
Project Engineer

REGISTERED PROFESSIONAL ENGINEER
RICHARD ALLEN ORENS
No. P 1743
Exp. 08/30/06
STATE OF CALIFORNIA

Richard Orens, P.E.
Senior Engineer

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 - June 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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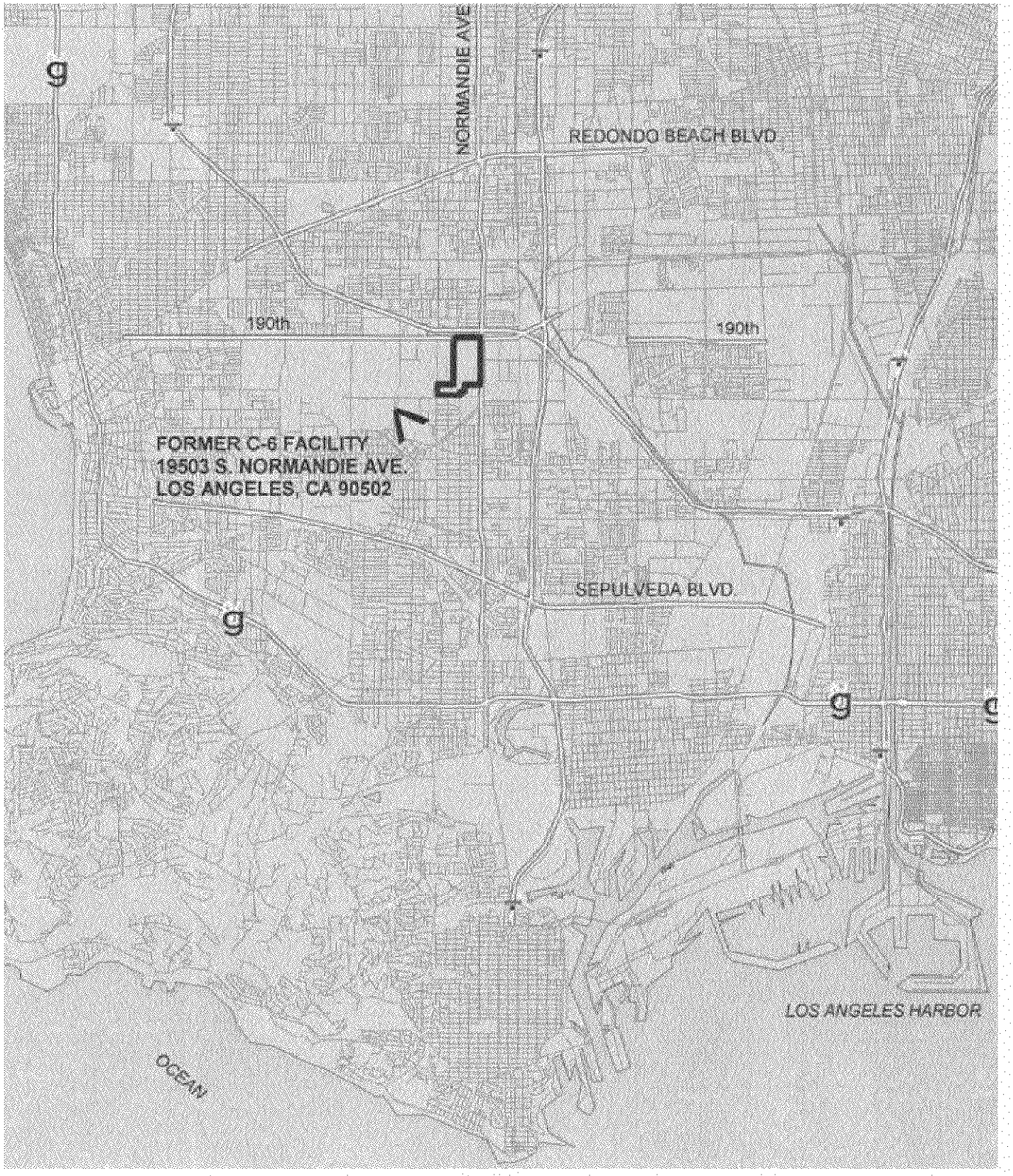
Figures



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

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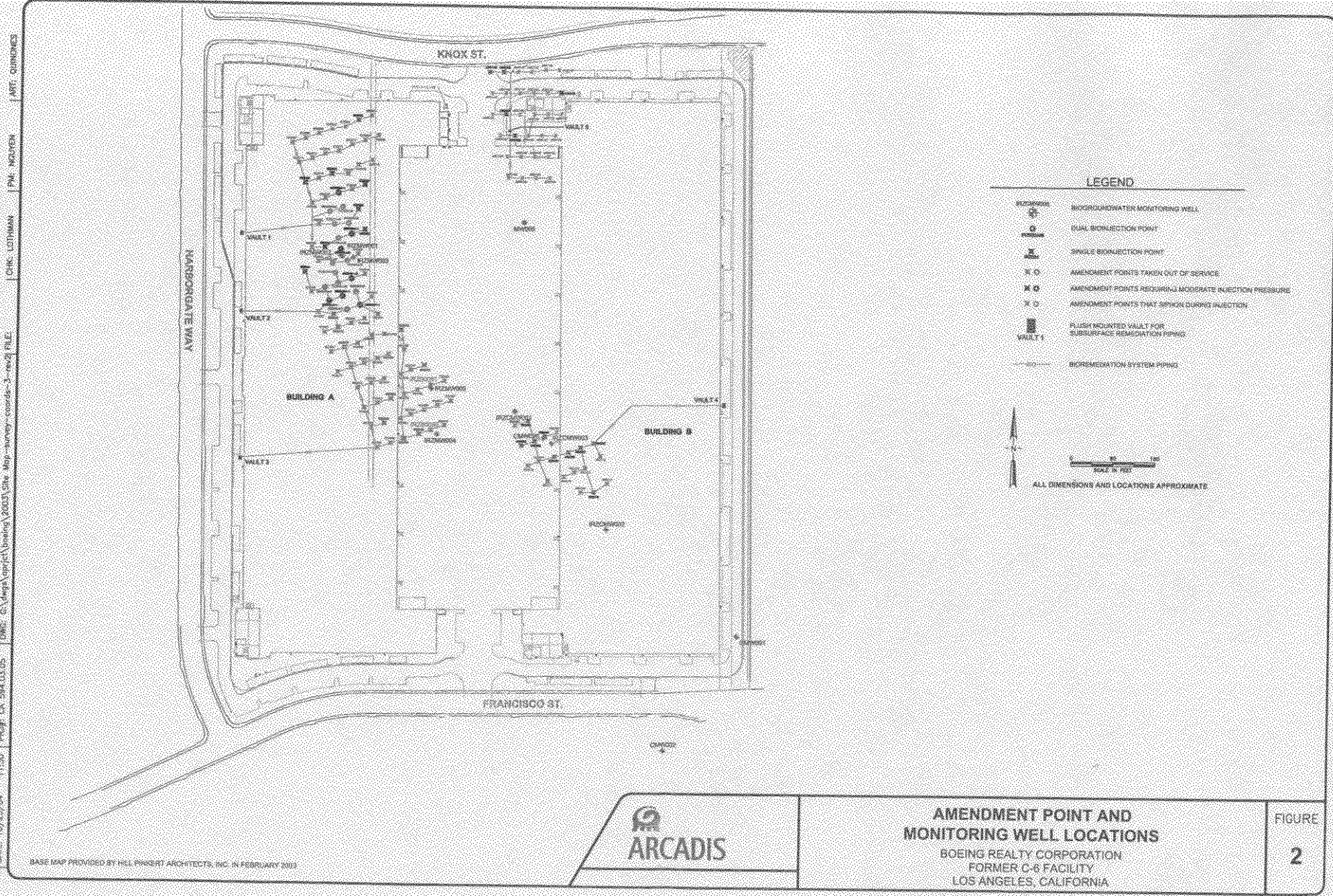
SITE LOCATION

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

FIGURE

1

DATE: 11/5/03 | 13:36 | PRJ#: CA663.01.05 | DWG: G:\drawings\project\boeing\2003\sl-1 | FILE: | CHK: LOTHMAN | PM: MOLNAA | ART: QUINONES



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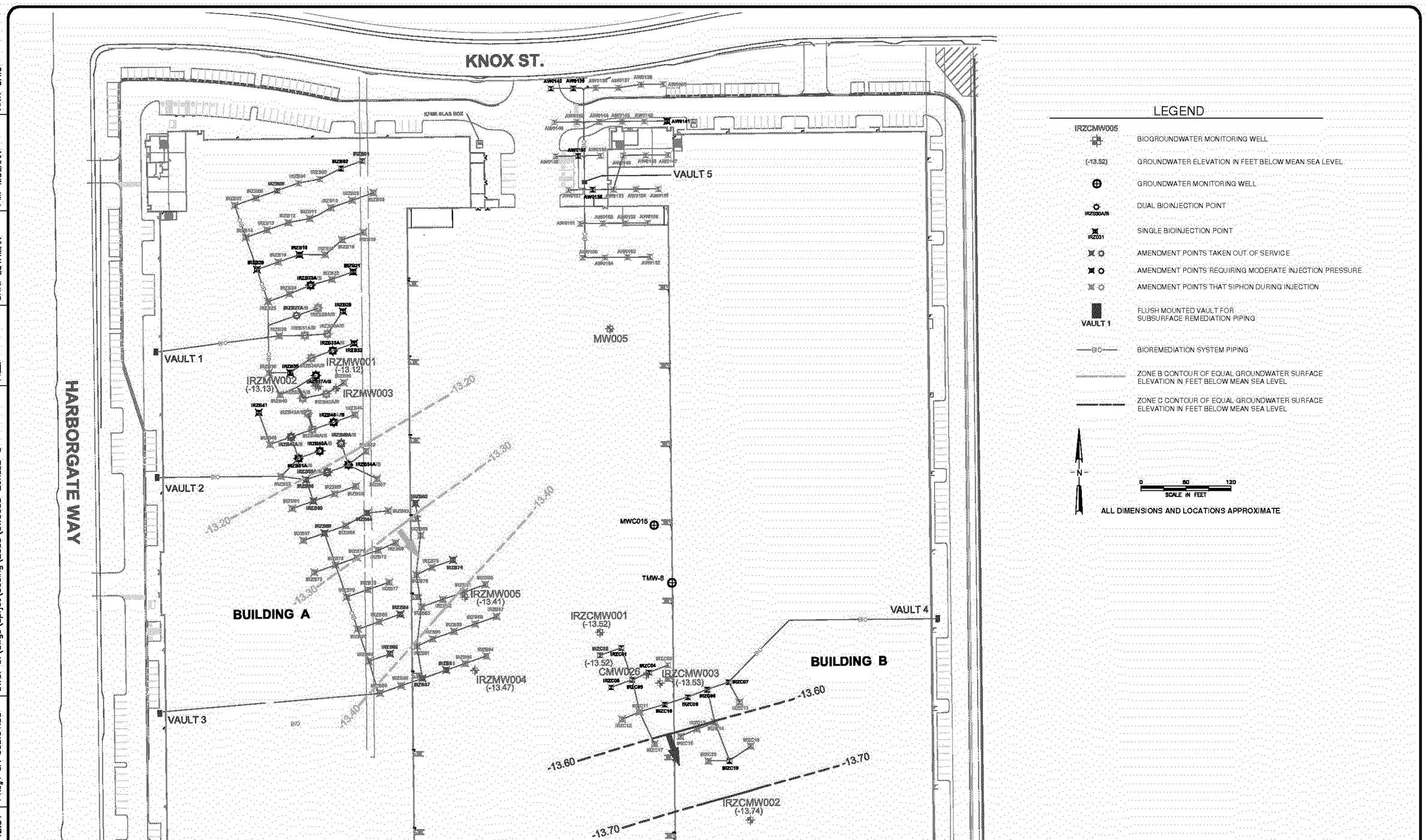

BASE MAP PROVIDED BY HILL PINKERT ARCHITECTS, INC. IN FEBRUARY 2003

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GROUNDWATER CONTOUR MAP FOR ZONES B AND C
JUNE 2005

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

FIGURE
3

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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 (oC)	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
			Week 36	6/15/2005		67.28	-13.10	NM	NM	NM	NM	NM	NM	NM	NM
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
			Week 36	6/15/2005		67.22	-13.12	NM	NM	NM	NM	NM	NM	NM	NM
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
			Week 36	6/15/2005		67.19	-13.12	NM	NM	NM	NM	NM	NM	NM	NM
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
			Week 36	6/15/2005		67.30	-13.13	NM	NM	NM	NM	NM	NM	NM	NM
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
			Week 36	6/15/2005		63.60	-13.41	NM	NM	NM	NM	NM	NM	NM	NM

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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 (oC)	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
			Week 36	6/15/2005		63.95	-13.47	6.7	1.3	-77.5	25.4	2,578	NM	<1.0	23.5
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
			Week 36	6/15/2005		62.46	-13.52	NM	NM	NM	NM	NM	NM	NM	NM
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
			Week 36	6/15/2005		62.65	-13.53	NM	NM	NM	NM	NM	NM	NM	NM
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
			Week 36	6/15/2005		66.72	-13.74	7.2	0.2	-285.4	23.6	2,024	NM	<0.1	157
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
			Week 36	6/15/2005		65.68	-13.87	7.3	0.5	-142.3	27.6	1,352	NM	<0.1	15.8
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	12.7
			Week 36	6/15/2005		64.17	--	7.2	0.6	-72.6	24.1	1,427	NM	<0.1	13.3
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
			Week 36	6/15/2005		62.66	-13.52	NM	NM	NM	NM	NM	NM	NM	NM
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
			Week 36	6/15/2005	0.79	284	2.2	0.21J	0.23	6.3	<1	38.1
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

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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)
IRZCMW002	Zone C	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
			Week 36	6/15/2005	0.19B	152	1.2	2.4J	2.8	<0.1	<1.0	3.6
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
			Week 36	6/15/2005	0.22B	87.8	0.16	0.21J	0.23	<0.1	<0.1	99.0
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
			Week 36	6/15/2005	0.24B	110	0.18	0.13J	0.15	<0.1	<0.1	89.1
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

BOE-C6-0011976

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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
			Week 36	6/15/2005	<120	7,100	840.0	<120	<120	<120	110J	<120	<120	<1,200	<120	83J	<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
			Week 36	6/15/2005	<50	**87**	**4,800**	**25J**	<50	<50	**32J**	<50	<50	<500	<50	<50	<250	<50
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
			Week 36	6/15/2005	<120	<120	<120	<120	<120	<120	<120	<120	<120	<1,200	**9,000**	<120	<620	<120
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
			Week 36	6/15/2005	<100	**430**	<100	<100	<100	<100	<100	<100	<100	<1,000	**7,400**	<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.

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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 (µg/L)	Ethane (µg/L)	Ethene (µg/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
			Week 36	6/15/2005	2.9	42	20	67	0.05	0.12
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

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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 (µg/L)	Ethane (µg/L)	Ethene (µg/L)
IRZCMW002	Zone C	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
			Week 36	6/15/2005	0.8	30	17	59	0.09	0.67
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
			Week 36	6/15/2005	2.3	10	19	6.3	0.22	0.30
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
			Week 36	6/15/2005	4.4	15	21	3.3	0.24	0.07
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
µg/L - micrograms per liter
< - Not detected above indicated reporting limit
NS - Not Sampled

BOE-C6-0011980

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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

June 27, 2005

STL LOT NUMBER: E5F170101
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

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

Dear Mr. Lothman,

This report contains the analytical results for the five samples received under chain of custody by STL Los Angeles on June 16, 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

Leaders in Environmental Testing

Accredited in accordance with nelac

Severn Trent Laboratories, Inc.

LOT NUMBER E5F170101

Nonconformance 05-12913

Affected Samples:
E5F170101 (1): TRIP BLANK_WG061505_01
E5F170101 (2): IRZMW004_WG061505_01

Affected Methods:
None specified.

Case Narrative:
One VOA vials from samples above contain bubbles > 6mm in diameter. Analysis is performed on a VOA vial without headspace when available.

Nonconformance 05-13010

Affected Samples:
E5F170101 (2): IRZMW004_WG061505_01
E5F170101 (3): IRZCMW002_WG061505_01
E5F170101 (4): CMW001_WG061505_01
E5F170101 (5): CMW002_WG061505_01

Affected Methods:
6010B

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.

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ARCADIS	Project Manager: ERIC LOTHMAN	Date: 6/15/05	Chain of Custody Number: 220247
Address: 1400 N. HARBOR BLVD. SUITE 700	Telephone Number (Area Code)/Fax Number: (714) 278-0992 / (714) 278-0051	Lab Number: ESF170101	Page 1 of 1
City: FULLERTON; State: CA; Zip Code: 92835	Site Contact: STEPHEN GYAMFI	Lab Contact: DIANA SUBLICK	
Project Name and Location (State): BOEING C-6, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: ~~BOEING C-6~~			

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	TOTAL MANGANESE	TOTAL IRON	BROMIDE	SULFATE	NITRATE	NITRITE	CHLORIDE	DISSOLVED MN	TOC			Special Instructions/ Conditions of Receipt
TRIP BLANK_WG061505_01	6/15/05	—		X					X	X	X				X	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			(see comments)
IRZMW004_WG061505-1	6/15/05	1625		X					X	X	X				X	X	X	X	X	X	X	X	X	X			
IRZCMW002_WG061505-01	6/15/05	1759		X					X	X	X				X	X	X	X	X	X	X	X	X	X			
CMW001_WG061505-01	6/15/05	1908		X					X	X	X				X	X	X	X	X	X	X	X	X	X			
CMW002-WG061505_01	6/15/05	2008		X					X	X	X				X	X	X	X	X	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):

1. Relinquished By: STEPHEN A. GYAMFI	Date: 6/15/05	Time: 2300	1. Received By: [illegible]	Date: 6/16/05	Time: 6:35 am
2. Relinquished By: [illegible]	Date: 6/16/05	Time: 1345	2. Received By: Vince Padilla	Date: 6/16/05	Time: 1345
3. Relinquished By: Vince Padilla	Date: 6/16/05	Time: 1430	3. Received By: [illegible]	Date: 6-16-05	Time: 14:30

Comments: LAB TO FILTER (DISSOLVED MANGANESE) Temp 2.6 + 0.4 = 3.0

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

000003

BOE-C6-0011984

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 6-16-05

LIMS Lot #: ES7170101 Quote #: 48755

Client Name: Arcadis A&M Project: Boeing C-6

Received by: MG Date/Time Received: 6-16-05/14:30

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

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

Custody Seal Status Cooler: ☐Intact ☐Broken ☑None ..... MG 6-16-05

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

Custody Seal #(s): ☑No Seal #.....

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

IR Gun # B Correction Factor +.4 °C IR passed daily verification ☑ Yes ☐No .....

Temperature - **BLANK** 2.6 °C +/- .4 CF = 3.0 °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: MG 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 6-16-05

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

Headspace Anomaly ☐N/A MG 6-16-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
001	1	☑ > 6mm			☐ > 6mm
002	1	☑ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5F170101

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1	2-5												
VOAH/*	3	3												
1LPB		1												
500PBn		1												
250AGBS		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 6-16-05

- **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:
  - ☑ 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:
Received VOA vials with headspace >6mm for Sample #1, container #1; Sample #2, container #1.

☐ 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: MG 6-16-05

PM Review/Date: MWC 6/17/05

BOE-C6-0011986

SEVERN TRENT STL

Analytical Report

BOE-C6-0011987

EXECUTIVE SUMMARY - Detection Highlights

E5F170101

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IRZMW004_WG061505_01 06/15/05 16:25 002				
Manganese - DISSOLVED	0.21 J	0.015	mg/L	SW846 6010B
Manganese	0.23	0.015	mg/L	SW846 6010B
Iron	2.2	0.10	mg/L	SW846 6010B
Chloroform	83 J	120	ug/L	SW846 8260B
1,1-Dichloroethene	110 J	120	ug/L	SW846 8260B
cis-1,2-Dichloroethene	840	120	ug/L	SW846 8260B
Trichloroethene	7100	120	ug/L	SW846 8260B
Chloride	284	10.0	mg/L	MCAWW 300.0A
Sulfate	38.1	1.0	mg/L	MCAWW 300.0A
Nitrate as N	6.3	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	23.5	1.0	mg/L	SW846 9060
Bromide	0.79	0.50	mg/L	MCAWW 300.0A
IRZCMW002_WG061505_01 06/15/05 17:59 003				
Manganese - DISSOLVED	2.4 J	0.015	mg/L	SW846 6010B
Manganese	2.8	0.015	mg/L	SW846 6010B
Iron	1.2	0.10	mg/L	SW846 6010B
2-Butanone	210 J	250	ug/L	SW846 8260B
Carbon disulfide	36 J	50	ug/L	SW846 8260B
1,1-Dichloroethene	32 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	4800	50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	25 J	50	ug/L	SW846 8260B
Trichloroethene	87	50	ug/L	SW846 8260B
Chloride	152	10.0	mg/L	MCAWW 300.0A
Sulfate	3.6	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	157	10.0	mg/L	SW846 9060
Bromide	0.19 B	0.50	mg/L	MCAWW 300.0A
CMW001_WG061505_01 06/15/05 19:08 004				
Manganese - DISSOLVED	0.21 J	0.015	mg/L	SW846 6010B
Manganese	0.23	0.015	mg/L	SW846 6010B
Iron	0.16	0.10	mg/L	SW846 6010B
Chlorobenzene	9000	120	ug/L	SW846 8260B
Chloride	87.8	5.0	mg/L	MCAWW 300.0A
Sulfate	99.0	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	15.8	1.0	mg/L	SW846 9060
Bromide	0.22 B	0.50	mg/L	MCAWW 300.0A

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BOE-C6-0011988

EXECUTIVE SUMMARY - Detection Highlights

E5F170101

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CMW002_WG061505_01 06/15/05 20:08 005				
Manganese - DISSOLVED	0.13 J	0.015	mg/L	SW846 6010B
Manganese	0.15	0.015	mg/L	SW846 6010B
Iron	0.18	0.10	mg/L	SW846 6010B
Benzene	50 J	100	ug/L	SW846 8260B
Chlorobenzene	7400	100	ug/L	SW846 8260B
Trichloroethene	430	100	ug/L	SW846 8260B
Chloride	110	5.0	mg/L	MCAWW 300.0A
Sulfate	89.1	5.0	mg/L	MCAWW 300.0A
Total Organic Carbon (TOC)	13.3	1.0	mg/L	SW846 9060
Bromide	0.24 B	0.50	mg/L	MCAWW 300.0A

BOE-C6-0011989

METHODS SUMMARY

E5F170101

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

E5F170101

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HDR05	001	TRIP BLANK_WG061505_01	06/15/05	
HDR06	002	IRZMW004_WG061505_01	06/15/05	16:25
HDR07	003	IRZCMW002_WG061505_01	06/15/05	17:59
HDR08	004	CMW001_WG061505_01	06/15/05	19:08
HDR09	005	CMW002_WG061505_01	06/15/05	20:08

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-C6-0011991

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: TRIP BLANK_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-001 **Work Order #...:** HDR051AA **Matrix.....:** WG
Date Sampled...: 06/15/05 **Date Received..:** 06/16/05 14:30 **MS Run #.....:** 5171380
Prep Date.....: 06/17/05 **Analysis Date..:** 06/17/05
Prep Batch #...: 5171669 **Analysis Time..:** 19:21
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: TRIP BLANK_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-001 **Work Order #...:** HDR051AA **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	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	96	(75 - 130)
1,2-Dichloroethane-d4	124	(65 - 135)
Toluene-d8	101	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-002 **Work Order #...:** HDR061AL **Matrix.....:** WG
Date Sampled...: 06/15/05 16:25 **Date Received..:** 06/16/05 14:30 **MS Run #.....:** 5172359
Prep Date.....: 06/20/05 **Analysis Date..:** 06/20/05
Prep Batch #...: 5172578 **Analysis Time..:** 22:50
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	**83 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	**110 J**	**120**	**ug/L**	**38**
cis-1,2-Dichloroethene	**840**	**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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BOE-C6-0011994

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-002 **Work Order #...:** HDR061AL **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	**7100**	**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	114	(65 - 135)
Toluene-d8	108	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG061505_01

TOTAL Metals

Lot-Sample #...: E5F170101-002 **Matrix.....:** WG
Date Sampled...: 06/15/05 16:25 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5172210						
Manganese	**0.23**	**0.015**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR061AJ**
		Dilution Factor: 1		Analysis Time..: 13:06	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.0010	
Iron	**2.2**	**0.10**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR061AM**
		Dilution Factor: 1		Analysis Time..: 13:06	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZMW004_WG061505_01

DISSOLVED Metals

Lot-Sample #...: E5F170101-002 **Matrix.....:** WG
Date Sampled...: 06/15/05 16:25 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5168217						
Manganese	**0.21 J**	**0.015**	**mg/L**	**SW846 6010B**	**06/20-06/21/05**	**HDR061AH**
		Dilution Factor: 1		Analysis Time..: 12:52	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5168147	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: IRZMW004_WG061505_01

General Chemistry

Lot-Sample #...: E5F170101-002 **Work Order #...:** HDR06 **Matrix.....:** WG
Date Sampled...: 06/15/05 16:25 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.79**	**0.50**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168091**
		Dilution Factor: 1		Analysis Time..: 07:00	Analyst ID.....: 000022	
		Instrument ID..: W01		MS Run #.....: 5168054	MDL.....: 0.10	
Chloride	**284**	**10.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168088**
		Dilution Factor: 10		Analysis Time..: 09:57	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5168052	MDL.....: 3.0	
Nitrate as N	**6.3**	**0.10**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168093**
		Dilution Factor: 1		Analysis Time..: 07:00	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5168055	MDL.....: 0.030	
Nitrite as N	ND G	1.0	mg/L	MCAWW 300.0A	06/17/05	5168090
		Dilution Factor: 10		Analysis Time..: 09:57	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5168053	MDL.....: 0.30	
Sulfate	**38.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168094**
		Dilution Factor: 1		Analysis Time..: 07:00	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5168056	MDL.....: 0.20	
Total Organic Carbon (TOC)	**23.5**	**1.0**	**mg/L**	**SW846 9060**	**06/17/05**	**5171406**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5171311	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_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-003 **Work Order #...:** HDR071AL **Matrix.....:** WG
Date Sampled...: 06/15/05 17:59 **Date Received..:** 06/16/05 14:30 **MS Run #.....:** 5171380
Prep Date.....: 06/17/05 **Analysis Date..:** 06/17/05
Prep Batch #...: 5171669 **Analysis Time..:** 22:51
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	**210 J**	**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	**36 J**	**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	**4800**	**50**	**ug/L**	**15**
trans-1,2-Dichloroethene	**25 J**	**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: IRZCMW002_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-003 **Work Order #...:** HDR071AL **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	**87**	**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	120	(65 - 135)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG061505_01

TOTAL Metals

Lot-Sample #...: E5F170101-003 **Matrix.....:** WG
Date Sampled...: 06/15/05 17:59 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5172210						
Manganese	**2.8**	**0.015**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR071AJ**
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.0010	
Iron	**1.2**	**0.10**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR071AM**
		Dilution Factor: 1		Analysis Time..: 13:13	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: IRZCMW002_WG061505_01

DISSOLVED Metals

Lot-Sample #...: E5F170101-003 **Matrix.....:** WG
Date Sampled...: 06/15/05 17:59 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5168217						
Manganese	**2.4 J**	**0.015**	**mg/L**	**SW846 6010B**	**06/20-06/21/05**	**HDR071AH**
		Dilution Factor: 1		Analysis Time..: 12:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5168147	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: IRZCMW002_WG061505_01

General Chemistry

Lot-Sample #...: E5F170101-003 **Work Order #...:** HDR07 **Matrix.....:** WG
Date Sampled...: 06/15/05 17:59 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.19 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168091**
		Dilution Factor: 1		Analysis Time..: 07:16	Analyst ID.....: 0000221	
		Instrument ID..: W01		MS Run #.....: 5168054	MDL.....: 0.10	
Chloride	**152**	**10.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168088**
		Dilution Factor: 10		Analysis Time..: 10:13	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5168052	MDL.....: 3.0	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	06/17/05	5168093
		Dilution Factor: 1		Analysis Time..: 07:16	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5168055	MDL.....: 0.030	
Nitrite as N	ND G	1.0	mg/L	MCAWW 300.0A	06/17/05	5168090
		Dilution Factor: 10		Analysis Time..: 10:13	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5168053	MDL.....: 0.30	
Sulfate	**3.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168094**
		Dilution Factor: 1		Analysis Time..: 07:16	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5168056	MDL.....: 0.20	
Total Organic Carbon (TOC)	**157**	**10.0**	**mg/L**	**SW846 9060**	**06/20/05**	**5171639**
		Dilution Factor: 10		Analysis Time..: 17:55	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5172119	MDL.....: 4.0	

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_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-004 **Work Order #...:** HDR081AL **Matrix.....:** WG
Date Sampled...: 06/15/05 19:08 **Date Received..:** 06/16/05 14:30 **MS Run #.....:** 5172359
Prep Date.....: 06/20/05 **Analysis Date..:** 06/21/05
Prep Batch #...: 5172578 **Analysis Time..:** 01:34
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	**9000**	**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: CMW001_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-004 **Work Order #...:** HDR081AL **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	ND	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	98	(75 - 130)
1,2-Dichloroethane-d4	119	(65 - 135)
Toluene-d8	107	(80 - 130)

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG061505_01

TOTAL Metals

Lot-Sample #...: E5F170101-004 **Matrix.....:** WG
Date Sampled...: 06/15/05 19:08 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5172210						
Manganese	**0.23**	**0.015**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR081AJ**
		Dilution Factor: 1		Analysis Time..: 13:21	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.0010	
Iron	**0.16**	**0.10**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR081AM**
		Dilution Factor: 1		Analysis Time..: 13:21	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW001_WG061505_01

DISSOLVED Metals

Lot-Sample #...: E5F170101-004 **Matrix.....:** WG
Date Sampled...: 06/15/05 19:08 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5168217						
Manganese	**0.21 J**	**0.015**	**mg/L**	**SW846 6010B**	**06/20-06/21/05**	**HDR081AH**
		Dilution Factor: 1		Analysis Time..: 13:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5168147	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: CMW001_WG061505_01

General Chemistry

Lot-Sample #...: E5F170101-004 **Work Order #...:** HDR08 **Matrix.....:** WG
Date Sampled...: 06/15/05 19:08 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.22 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168091**
		Dilution Factor: 1		Analysis Time..: 07:32	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5168054	MDL.....: 0.10	
Chloride	**87.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168088**
		Dilution Factor: 5		Analysis Time..: 10:29	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5168052	MDL.....: 1.5	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	06/17/05	5168093
		Dilution Factor: 1		Analysis Time..: 07:32	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5168055	MDL.....: 0.030	
Nitrite as N	ND	0.10	mg/L	MCAWW 300.0A	06/17/05	5168090
		Dilution Factor: 1		Analysis Time..: 07:32	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5168053	MDL.....: 0.030	
Sulfate	**99.0**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168094**
		Dilution Factor: 5		Analysis Time..: 10:29	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5168056	MDL.....: 1.0	
Total Organic Carbon (TOC)	**15.8**	**1.0**	**mg/L**	**SW846 9060**	**06/20/05**	**5171639**
		Dilution Factor: 1		Analysis Time..: 17:55	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5172119	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-005 **Work Order #...:** HDR091AL **Matrix.....:** WG
Date Sampled...: 06/15/05 20:08 **Date Received..:** 06/16/05 14:30 **MS Run #.....:** 5172359
Prep Date.....: 06/20/05 **Analysis Date..:** 06/21/05
Prep Batch #...: 5172578 **Analysis Time..:** 01:58
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	**50 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	**7400**	**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_WG061505_01

GC/MS Volatiles

Lot-Sample #...: E5F170101-005 **Work Order #...:** HDR091AL **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	**430**	**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	102	(75 - 130)
1,2-Dichloroethane-d4	117	(65 - 135)
Toluene-d8	112	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG061505_01

TOTAL Metals

Lot-Sample #...: E5F170101-005 **Matrix.....:** WG
Date Sampled...: 06/15/05 20:08 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5172210						
Manganese	**0.15**	**0.015**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR091AJ**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.0010	
Iron	**0.18**	**0.10**	**mg/L**	**SW846 6010B**	**06/21-06/22/05**	**HDR091AM**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5173249	MDL.....: 0.030	

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: CMW002_WG061505_01

DISSOLVED Metals

Lot-Sample #...: E5F170101-005 **Matrix.....:** WG
Date Sampled...: 06/15/05 20:08 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5168217						
Manganese	**0.13 J**	**0.015**	**mg/L**	**SW846 6010B**	**06/20-06/21/05**	**HDR091AH**
		Dilution Factor: 1		Analysis Time..: 13:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5168147	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_WG061505_01

General Chemistry

Lot-Sample #...: E5F170101-005 **Work Order #...:** HDR09 **Matrix.....:** WG
Date Sampled...: 06/15/05 20:08 **Date Received..:** 06/16/05 14:30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide	**0.24 B**	**0.50**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168091**
		Dilution Factor: 1		Analysis Time..: 07:48	Analyst ID.....: 0000229	
		Instrument ID..: W01		MS Run #.....: 5168054	MDL.....: 0.10	
Chloride	**110**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168088**
		Dilution Factor: 5		Analysis Time..: 10:45	Analyst ID.....: 0000224	
		Instrument ID..: W01		MS Run #.....: 5168052	MDL.....: 1.5	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	06/17/05	5168093
		Dilution Factor: 1		Analysis Time..: 07:48	Analyst ID.....: 0000222	
		Instrument ID..: W01		MS Run #.....: 5168055	MDL.....: 0.030	
Nitrite as N	ND	0.10	mg/L	MCAWW 300.0A	06/17/05	5168090
		Dilution Factor: 1		Analysis Time..: 07:48	Analyst ID.....: 0000225	
		Instrument ID..: W01		MS Run #.....: 5168053	MDL.....: 0.030	
Sulfate	**89.1**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/17/05**	**5168094**
		Dilution Factor: 5		Analysis Time..: 10:45	Analyst ID.....: 0000223	
		Instrument ID..: W01		MS Run #.....: 5168056	MDL.....: 1.0	
Total Organic Carbon (TOC)	**13.3**	**1.0**	**mg/L**	**SW846 9060**	**06/20/05**	**5171639**
		Dilution Factor: 1		Analysis Time..: 17:55	Analyst ID.....: 9999956	
		Instrument ID..: W08		MS Run #.....: 5172119	MDL.....: 0.40	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

SEVERN TRENT STL

STL Los Angeles
Raw Data

QC DATA ASSOCIATION SUMMARY

E5F170101

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	SW846 8260B		5171669	5171380
002	WG	MCAWW 300.0A		5168088	5168052
	WG	MCAWW 300.0A		5168094	5168056
	WG	MCAWW 300.0A		5168093	5168055
	WG	SW846 9060		5171406	5171311
	WG	MCAWW 300.0A		5168091	5168054
	WG	MCAWW 300.0A		5168090	5168053
	WG	SW846 8260B		5172578	5172359
	WG	SW846 6010B		5168217	5168147
	WG	SW846 6010B		5172210	5173249
003	WG	MCAWW 300.0A		5168088	5168052
	WG	MCAWW 300.0A		5168094	5168056
	WG	MCAWW 300.0A		5168093	5168055
	WG	SW846 9060		5171639	5172119
	WG	MCAWW 300.0A		5168091	5168054
	WG	MCAWW 300.0A		5168090	5168053
	WG	SW846 8260B		5171669	5171380
	WG	SW846 6010B		5168217	5168147
	WG	SW846 6010B		5172210	5173249
004	WG	MCAWW 300.0A		5168088	5168052
	WG	MCAWW 300.0A		5168094	5168056
	WG	MCAWW 300.0A		5168093	5168055
	WG	SW846 9060		5171639	5172119
	WG	MCAWW 300.0A		5168091	5168054
	WG	MCAWW 300.0A		5168090	5168053
	WG	SW846 8260B		5172578	5172359
	WG	SW846 6010B		5168217	5168147
	WG	SW846 6010B		5172210	5173249
005	WG	MCAWW 300.0A		5168088	5168052
	WG	MCAWW 300.0A		5168094	5168056
	WG	MCAWW 300.0A		5168093	5168055
	WG	SW846 9060		5171639	5172119
	WG	MCAWW 300.0A		5168091	5168054
	WG	MCAWW 300.0A		5168090	5168053
	WG	SW846 8260B		5172578	5172359
	WG	SW846 6010B		5168217	5168147
	WG	SW846 6010B		5172210	5173249

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5F170101 **Work Order #...:** HD1W61AA **Matrix.....:** WATER
MB Lot-Sample #: E5F200000-669

Prep Date.....: 06/17/05 **Analysis Time..:** 18:55
Analysis Date..: 06/17/05 **Prep Batch #...:** 5171669 **Instrument ID..:** MSQ
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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BOE-C6-0012016

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5F170101 **Work Order #...:** HD1W61AA **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	126	(65 - 135)
Toluene-d8	99	(80 - 130)

NOTE(S):

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

BOE-C6-0012017

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5F170101 **Work Order #...:** HD4GQ1AA **Matrix.....:** WATER
MB Lot-Sample #: E5F210000-578

Prep Date.....: 06/20/05 **Analysis Time..:** 18:45
Analysis Date..: 06/20/05 **Prep Batch #...:** 5172578 **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 #...: E5F170101 **Work Order #...:** HD4GQ1AA **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	97	(75 - 130)
1,2-Dichloroethane-d4	118	(65 - 135)
Toluene-d8	106	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5F210000-210 **Prep Batch #...:** 5172210						
Manganese	ND	0.015	mg/L	SW846 6010B	06/21-06/22/05	HD2E21CK
		Dilution Factor: 1				
		Analysis Time..: 11:16		Analyst ID.....: 021088	Instrument ID..: M01	
Iron	ND	0.10	mg/L	SW846 6010B	06/21-06/22/05	HD2E21CL
		Dilution Factor: 1				
		Analysis Time..: 11:16		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

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

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5F170000-217 **Prep Batch #...:** 5168217						
Manganese	**0.0026 B**	**0.015**	**mg/L**	**SW846 6010B**	**06/20-06/21/05**	**HDTMN1AA**

Dilution Factor: 1

Analysis Time..: 11:30 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 #...: E5F170101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: HDR4T1AA		MB Lot-Sample #:	E5F170000-091	
	ND	0.50	mg/L	MCAWW 300.0A	06/17/05	5168091
		Dilution Factor: 1				
		Analysis Time..: 06:11		Analyst ID.....: 000022	Instrument ID..: W01	
Chloride		Work Order #: HDR4N1AA		MB Lot-Sample #:	E5F170000-088	
	ND	1.0	mg/L	MCAWW 300.0A	06/17/05	5168088
		Dilution Factor: 1				
		Analysis Time..: 06:11		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrate as N		Work Order #: HDR4W1AA		MB Lot-Sample #:	E5F170000-093	
	ND	0.10	mg/L	MCAWW 300.0A	06/17/05	5168093
		Dilution Factor: 1				
		Analysis Time..: 06:11		Analyst ID.....: 000022	Instrument ID..: W01	
Nitrite as N		Work Order #: HDR4Q1AA		MB Lot-Sample #:	E5F170000-090	
	ND	0.10	mg/L	MCAWW 300.0A	06/17/05	5168090
		Dilution Factor: 1				
		Analysis Time..: 06:11		Analyst ID.....: 000022	Instrument ID..: W01	
Sulfate		Work Order #: HDR4X1AA		MB Lot-Sample #:	E5F170000-094	
	ND	1.0	mg/L	MCAWW 300.0A	06/17/05	5168094
		Dilution Factor: 1				
		Analysis Time..: 06:11		Analyst ID.....: 000022	Instrument ID..: W01	
Total Organic Carbon (TOC)		Work Order #: HD1LP1AA		MB Lot-Sample #:	E5F200000-406	
	ND	1.0	mg/L	SW846 9060	06/17/05	5171406
		Dilution Factor: 1				
		Analysis Time..: 19:30		Analyst ID.....: 999995	Instrument ID..: W08	
Total Organic Carbon (TOC)		Work Order #: HD2D41AA		MB Lot-Sample #:	E5F200000-639	
	ND	1.0	mg/L	SW846 9060	06/20/05	5171639
		Dilution Factor: 1				
		Analysis Time..: 17:55		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 #...: E5F170101 **Work Order #...:** HD1W61AC **Matrix.....:** WATER
LCS Lot-Sample#: E5F200000-669
Prep Date.....: 06/17/05 **Analysis Date..:** 06/17/05
Prep Batch #...: 5171669 **Analysis Time..:** 18:02
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**86**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**84**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**81**	**(65 - 135)**	**SW846 8260B**
Toluene	**80**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**90**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane-d4	121	(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

BOE-C6-0012023

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5F170101 **Work Order #...:** HD1W61AC **Matrix.....:** WATER
LCS Lot-Sample#: E5F200000-669
Prep Date.....: 06/17/05 **Analysis Date..:** 06/17/05
Prep Batch #...: 5171669 **Analysis Time..:** 18:02
Dilution Factor: 1 **Instrument ID..:** MSQ
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**8.55**	**ug/L**	**86**	**SW846 8260B**
Chlorobenzene	**10.0**	**8.43**	**ug/L**	**84**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**8.06**	**ug/L**	**81**	**SW846 8260B**
Toluene	**10.0**	**7.99**	**ug/L**	**80**	**SW846 8260B**
Trichloroethene	**10.0**	**9.03**	**ug/L**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane-d4	121	(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

GC/MS Volatiles

Client Lot #...: E5F170101 **Work Order #...:** HD4GQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5F210000-578
Prep Date.....: 06/20/05 **Analysis Date..:** 06/20/05
Prep Batch #...: 5172578 **Analysis Time..:** 17:58
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**107**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**104**	**(75 - 125)**	**SW846 8260B**
1,1-Dichloroethene	**115**	**(65 - 135)**	**SW846 8260B**
Toluene	**105**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**105**	**(75 - 135)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	124	(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 #...: E5F170101 **Work Order #...:** HD4GQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5F210000-578
Prep Date.....: 06/20/05 **Analysis Date..:** 06/20/05
Prep Batch #...: 5172578 **Analysis Time..:** 17:58
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.4**	**ug/L**	**104**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**11.5**	**ug/L**	**115**	**SW846 8260B**
Toluene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Trichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	124	(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

TOTAL Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5F210000-210 **Prep Batch #...:** 5172210					
Manganese	99	(85 - 120)	SW846 6010B	06/21-06/22/05	HD2E21CM
		Dilution Factor: 1	Analysis Time..: 11:22	Analyst ID.....: 021088	
		Instrument ID..: M01			
Iron	105	(85 - 120)	SW846 6010B	06/21-06/22/05	HD2E21CN
		Dilution Factor: 1	Analysis Time..: 11:22	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

TOTAL Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5F210000-210 **Prep Batch #...:** 5172210							
Manganese	0.500	0.497	mg/L	99	SW846 6010B	06/21-06/22/05	HD2E21CM
			Dilution Factor: 1		Analysis Time..: 11:22	Analyst ID.....: 021088	
			Instrument ID..: M01				
Iron	1.00	1.05	mg/L	105	SW846 6010B	06/21-06/22/05	HD2E21CN
			Dilution Factor: 1		Analysis Time..: 11:22	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

DISSOLVED Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5F170000-217 **Prep Batch #...:** 5168217					
Manganese	94	(85 - 120)	SW846 6010B	06/20-06/21/05	HDTMN1AE

Dilution Factor: 1 Analysis Time..: 11:35 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 #...: E5F170101 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5F170000-217 **Prep Batch #...:** 5168217							
Manganese	0.500	0.470	mg/L	94	SW846 6010B	06/20-06/21/05	HDTMN1AE

Dilution Factor: 1 Analysis Time..: 11:35 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 #...: E5F170101 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: HDR4T1AC	LCS Lot-Sample#: E5F170000-091		
	99	(90 - 110)	MCAWW 300.0A	06/17/05	5168091
		Dilution Factor: 1	Analysis Time..: 05:55	Analyst ID.....: 000022	
		Instrument ID..: W01			
Chloride		Work Order #: HDR4N1AC	LCS Lot-Sample#: E5F170000-088		
	101	(90 - 110)	MCAWW 300.0A	06/17/05	5168088
		Dilution Factor: 1	Analysis Time..: 05:55	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrate as N		Work Order #: HDR4W1AC	LCS Lot-Sample#: E5F170000-093		
	101	(90 - 110)	MCAWW 300.0A	06/17/05	5168093
		Dilution Factor: 1	Analysis Time..: 05:55	Analyst ID.....: 000022	
		Instrument ID..: W01			
Nitrite as N		Work Order #: HDR4Q1AC	LCS Lot-Sample#: E5F170000-090		
	101	(90 - 110)	MCAWW 300.0A	06/17/05	5168090
		Dilution Factor: 1	Analysis Time..: 05:55	Analyst ID.....: 000022	
		Instrument ID..: W01			
Sulfate		Work Order #: HDR4X1AC	LCS Lot-Sample#: E5F170000-094		
	100	(90 - 110)	MCAWW 300.0A	06/17/05	5168094
		Dilution Factor: 1	Analysis Time..: 05:55	Analyst ID.....: 000022	
		Instrument ID..: W01			
Total Organic Carbon (TOC)		Work Order #: HD1LP1AC	LCS Lot-Sample#: E5F200000-406		
	95	(85 - 115)	SW846 9060	06/17/05	5171406
		Dilution Factor: 1	Analysis Time..: 19:30	Analyst ID.....: 999995	
		Instrument ID..: W08			
Total Organic Carbon (TOC)		Work Order #: HD2D41AC	LCS Lot-Sample#: E5F200000-639		
	104	(85 - 115)	SW846 9060	06/20/05	5171639
		Dilution Factor: 1	Analysis Time..: 17:55	Analyst ID.....: 999995	
		Instrument ID..: W08			

NOTE(S):

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

BOE-C6-0012031

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5F170101 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			Work Order #: HDR4T1AC LCS Lot-Sample#: E5F170000-091				
	5.00	4.97	mg/L	99	MCAWW 300.0A	06/17/05	5168091
			Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 000022	
			Instrument ID..: W01				
Chloride			Work Order #: HDR4N1AC LCS Lot-Sample#: E5F170000-088				
	25.0	25.2	mg/L	101	MCAWW 300.0A	06/17/05	5168088
			Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrate as N			Work Order #: HDR4W1AC LCS Lot-Sample#: E5F170000-093				
	5.00	5.03	mg/L	101	MCAWW 300.0A	06/17/05	5168093
			Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 000022	
			Instrument ID..: W01				
Nitrite as N			Work Order #: HDR4Q1AC LCS Lot-Sample#: E5F170000-090				
	5.00	5.06	mg/L	101	MCAWW 300.0A	06/17/05	5168090
			Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 000022	
			Instrument ID..: W01				
Sulfate			Work Order #: HDR4X1AC LCS Lot-Sample#: E5F170000-094				
	25.0	25.0	mg/L	100	MCAWW 300.0A	06/17/05	5168094
			Dilution Factor: 1		Analysis Time..: 05:55	Analyst ID.....: 000022	
			Instrument ID..: W01				
Total Organic Carbon (TOC)			Work Order #: HD1LP1AC LCS Lot-Sample#: E5F200000-406				
	25.0	23.8	mg/L	95	SW846 9060	06/17/05	5171406
			Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 999995	
			Instrument ID..: W08				
Total Organic Carbon (TOC)			Work Order #: HD2D41AC LCS Lot-Sample#: E5F200000-639				
	25.0	26.1	mg/L	104	SW846 9060	06/20/05	5171639
			Dilution Factor: 1		Analysis Time..: 17:55	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 #...:	E5F170101	**Work Order #...:**	HDR071AN-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5F170101-003		HDR071AP-MSD		
Date Sampled...:	06/15/05 17:59	**Date Received..:**	06/16/05 14:30	**MS Run #.....:**	5171380
Prep Date.....:	06/17/05	**Analysis Date..:**	06/18/05		
Prep Batch #...:	5171669	**Analysis Time..:**	02:29		
Dilution Factor:	50	**Analyst ID.....:**	015590	**Instrument ID..:**	MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**95**	**(75 - 125)**			**SW846 8260B**
	78	**(75 - 125)**	**19**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 125)**			**SW846 8260B**
	88	**(75 - 125)**	**9.8**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**134**	**(65 - 135)**			**SW846 8260B**
	121	**(65 - 135)**	**9.6**	**(0-25)**	**SW846 8260B**
Toluene	**97**	**(75 - 125)**			**SW846 8260B**
	89	**(75 - 125)**	**8.9**	**(0-25)**	**SW846 8260B**
Trichloroethene	**98**	**(75 - 135)**			**SW846 8260B**
	103	**(75 - 135)**	**4.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
	103	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
	97	(65 - 135)
Toluene-d8	107	(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 #...:	E5F170101	**Work Order #...:**	HDR071AN-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5F170101-003		HDR071AP-MSD		
Date Sampled...:	06/15/05 17:59	**Date Received..:**	06/16/05 14:30	**MS Run #.....:**	5171380
Prep Date.....:	06/17/05	**Analysis Date..:**	06/18/05		
Prep Batch #...:	5171669	**Analysis Time..:**	02:29		
Dilution Factor:	50	**Analyst ID.....:**	015590	**Instrument ID..:**	MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**500**	**473**	**ug/L**	**95**		**SW846 8260B**
	ND	**500**	**392**	**ug/L**	**78**	**19**	**SW846 8260B**
Chlorobenzene	**ND**	**500**	**484**	**ug/L**	**97**		**SW846 8260B**
	ND	**500**	**439**	**ug/L**	**88**	**9.8**	**SW846 8260B**
1,1-Dichloroethene	**32**	**500**	**701**	**ug/L**	**134**		**SW846 8260B**
	32	**500**	**637**	**ug/L**	**121**	**9.6**	**SW846 8260B**
Toluene	**ND**	**500**	**484**	**ug/L**	**97**		**SW846 8260B**
	ND	**500**	**443**	**ug/L**	**89**	**8.9**	**SW846 8260B**
Trichloroethene	**87**	**500**	**578**	**ug/L**	**98**		**SW846 8260B**
	87	**500**	**602**	**ug/L**	**103**	**4.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
	103	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
	97	(65 - 135)
Toluene-d8	107	(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 #...:	E5F170101	**Work Order #...:**	HDR061AN-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5F170101-002		HDR061AP-MSD		
Date Sampled...:	06/15/05 16:25	**Date Received..:**	06/16/05 14:30	**MS Run #.....:**	5172359
Prep Date.....:	06/20/05	**Analysis Date..:**	06/21/05		
Prep Batch #...:	5172578	**Analysis Time..:**	00:24		
Dilution Factor:	125	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**105**	**(75 - 125)**			**SW846 8260B**
	113	**(75 - 125)**	**7.4**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**105**	**(75 - 125)**			**SW846 8260B**
	113	**(75 - 125)**	**7.3**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**113**	**(65 - 135)**			**SW846 8260B**
	126	**(65 - 135)**	**10**	**(0-25)**	**SW846 8260B**
Toluene	**105**	**(75 - 125)**			**SW846 8260B**
	113	**(75 - 125)**	**7.3**	**(0-25)**	**SW846 8260B**
Trichloroethene	**109**	**(75 - 135)**			**SW846 8260B**
	115	**(75 - 135)**	**0.93**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
	106	(75 - 130)
1,2-Dichloroethane-d4	119	(65 - 135)
	117	(65 - 135)
Toluene-d8	105	(80 - 130)
	109	(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 #...: E5F170101 **Work Order #...:** HDR061AN-MS **Matrix.....:** WG
MS Lot-Sample #: E5F170101-002 HDR061AP-MSD
Date Sampled...: 06/15/05 16:25 **Date Received..:** 06/16/05 14:30 **MS Run #.....:** 5172359
Prep Date.....: 06/20/05 **Analysis Date..:** 06/21/05
Prep Batch #...: 5172578 **Analysis Time..:** 00:24
Dilution Factor: 125 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**1250**	**1320**	**ug/L**	**105**		**SW846 8260B**
	ND	**1250**	**1420**	**ug/L**	**113**	**7.4**	**SW846 8260B**
Chlorobenzene	**ND**	**1250**	**1310**	**ug/L**	**105**		**SW846 8260B**
	ND	**1250**	**1410**	**ug/L**	**113**	**7.3**	**SW846 8260B**
1,1-Dichloroethene	**110**	**1250**	**1530**	**ug/L**	**113**		**SW846 8260B**
	110	**1250**	**1690**	**ug/L**	**126**	**10**	**SW846 8260B**
Toluene	**ND**	**1250**	**1310**	**ug/L**	**105**		**SW846 8260B**
	ND	**1250**	**1410**	**ug/L**	**113**	**7.3**	**SW846 8260B**
Trichloroethene	**7100**	**1250**	**8500**	**ug/L**	**109**		**SW846 8260B**
	7100	**1250**	**8580**	**ug/L**	**115**	**0.93**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
	106	(75 - 130)
1,2-Dichloroethane-d4	119	(65 - 135)
	117	(65 - 135)
Toluene-d8	105	(80 - 130)
	109	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

BOE-C6-0012036

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/17/05 14:25 **Date Received..:** 06/17/05 19:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5F170423-002 **Prep Batch #...:** 5172210							
Manganese	99	(85 - 120)			SW846 6010B	06/21-06/22/05	HDW3M1C7
	100	(85 - 120)	0.59	(0-20)	SW846 6010B	06/21-06/22/05	HDW3M1C8
		Dilution Factor: 1					
		Analysis Time..: 12:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 5173249					
Iron	107	(85 - 120)			SW846 6010B	06/21-06/22/05	HDW3M1DA
	102	(85 - 120)	4.0	(0-20)	SW846 6010B	06/21-06/22/05	HDW3M1DC
		Dilution Factor: 1					
		Analysis Time..: 12:03			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 5173249					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/17/05 14:25 **Date Received..:** 06/17/05 19:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5F170423-002 **Prep Batch #...:** 5172210									
Manganese									
	0.0020	0.500	0.498	mg/L	99		SW846 6010B	06/21-06/22/05	HDW3M1C7
	0.0020	0.500	0.501	mg/L	100	0.59	SW846 6010B	06/21-06/22/05	HDW3M1C8
			Dilution Factor: 1						
			Analysis Time..: 12:03		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5173249						
Iron									
	0.24	1.00	1.31	mg/L	107		SW846 6010B	06/21-06/22/05	HDW3M1DA
	0.24	1.00	1.26	mg/L	102	4.0	SW846 6010B	06/21-06/22/05	HDW3M1DC
			Dilution Factor: 1						
			Analysis Time..: 12:03		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5173249						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/16/05 11:15 **Date Received..:** 06/16/05 16:20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5F160396-002 **Prep Batch #...:** 5168217							
Manganese	95	(85 - 120)			SW846 6010B	06/20-06/21/05	HDR0R1A4
	99	(85 - 120)	4.1	(0-20)	SW846 6010B	06/20-06/21/05	HDR0R1A5

Dilution Factor: 1
Analysis Time..: 11:58 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5168147

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/16/05 11:15 **Date Received..:** 06/16/05 16:20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5F160396-002 **Prep Batch #...:** 5168217									
Manganese									
	0.059	0.500	0.532	mg/L	95		SW846 6010B	06/20-06/21/05	HDR0R1A4
	0.059	0.500	0.554	mg/L	99	4.1	SW846 6010B	06/20-06/21/05	HDR0R1A5

Dilution Factor: 1
Analysis Time..: 11:58 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5168147

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/14/05 09:36 **Date Received..:** 06/16/05 10:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: HDR0R1AW-MS/HDR0R1AX-MSD			MS Lot-Sample #: E5F160396-002	
	99	(80 - 120)			MCAWW 300.0A	06/17/05	5168091
	95	(80 - 120)	3.6	(0-20)	MCAWW 300.0A	06/17/05	5168091
		Dilution Factor: 5					
		Analysis Time..: 11:17			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5168054					
Chloride			WO#: HDR0R1AR-MS/HDR0R1AT-MSD			MS Lot-Sample #: E5F160396-002	
	99	(80 - 120)			MCAWW 300.0A	06/17/05	5168088
	95	(80 - 120)	1.9	(0-20)	MCAWW 300.0A	06/17/05	5168088
		Dilution Factor: 5					
		Analysis Time..: 11:17			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5168052					
Nitrate as N			WO#: HDR0R1A0-MS/HDR0R1A1-MSD			MS Lot-Sample #: E5F160396-002	
	97	(80 - 120)			MCAWW 300.0A	06/17/05	5168093
	93	(80 - 120)	2.9	(0-20)	MCAWW 300.0A	06/17/05	5168093
		Dilution Factor: 5					
		Analysis Time..: 11:17			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5168055					
Nitrite as N			WO#: HDR0R1AU-MS/HDR0R1AV-MSD			MS Lot-Sample #: E5F160396-002	
	98	(80 - 120)			MCAWW 300.0A	06/17/05	5168090
	93	(80 - 120)	4.4	(0-20)	MCAWW 300.0A	06/17/05	5168090
		Dilution Factor: 5					
		Analysis Time..: 11:17			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5168053					
Sulfate			WO#: HDR0R1A2-MS/HDR0R1A3-MSD			MS Lot-Sample #: E5F160396-002	
	100	(80 - 120)			MCAWW 300.0A	06/17/05	5168094
	97	(80 - 120)	2.3	(0-20)	MCAWW 300.0A	06/17/05	5168094
		Dilution Factor: 5					
		Analysis Time..: 11:17			Instrument ID..: W01	Analyst ID.....: 000022	
		MS Run #.....: 5168056					
Total Organic Carbon (TOC)			WO#: HDP931AG-MS/HDP931AH-MSD			MS Lot-Sample #: E5F160183-001	
	104	(85 - 115)			SW846 9060	06/20/05	5172206
	97	(85 - 115)	5.7	(0-20)	SW846 9060	06/20/05	5172206
		Dilution Factor: 1					
		Analysis Time..: 17:55			Instrument ID..: W08	Analyst ID.....: 999995	
		MS Run #.....: 5172119					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/14/05 09:36 **Date Received..:** 06/16/05 10:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	WO#: HDQ0J1AG-MS/HDQ0J1AH-MSD MS Lot-Sample #: E5F160260-005						
	104	(85 - 115)			SW846 9060	06/17/05	5171406
	103	(85 - 115)	1.2	(0-20)	SW846 9060	06/17/05	5171406

Dilution Factor: 1
Analysis Time..: 19:30 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5171311

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/14/05 09:36 **Date Received..:** 06/16/05 10:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: HDR0R1AW-MS/HDR0R1AX-MSD				MS Lot-Sample #: E5F160396-002		
	0.45	12.5	12.8	mg/L	99		MCAWW 300.0A	06/17/05	5168091
	0.45	12.5	12.3	mg/L	95	3.6	MCAWW 300.0A	06/17/05	5168091
			Dilution Factor: 5						
			Analysis Time..: 11:17		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5168054						
Chloride			WO#: HDR0R1AR-MS/HDR0R1AT-MSD				MS Lot-Sample #: E5F160396-002		
	76.1	62.5	138	mg/L	99		MCAWW 300.0A	06/17/05	5168088
	76.1	62.5	136	mg/L	95	1.9	MCAWW 300.0A	06/17/05	5168088
			Dilution Factor: 5						
			Analysis Time..: 11:17		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5168052						
Nitrate as N			WO#: HDR0R1A0-MS/HDR0R1A1-MSD				MS Lot-Sample #: E5F160396-002		
	5.5	12.5	17.7	mg/L	97		MCAWW 300.0A	06/17/05	5168093
	5.5	12.5	17.2	mg/L	93	2.9	MCAWW 300.0A	06/17/05	5168093
			Dilution Factor: 5						
			Analysis Time..: 11:17		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5168055						
Nitrite as N			WO#: HDR0R1AU-MS/HDR0R1AV-MSD				MS Lot-Sample #: E5F160396-002		
	ND	12.5	12.2	mg/L	98		MCAWW 300.0A	06/17/05	5168090
	ND	12.5	11.7	mg/L	93	4.4	MCAWW 300.0A	06/17/05	5168090
			Dilution Factor: 5						
			Analysis Time..: 11:17		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5168053						
Sulfate			WO#: HDR0R1A2-MS/HDR0R1A3-MSD				MS Lot-Sample #: E5F160396-002		
	44.5	62.5	107	mg/L	100		MCAWW 300.0A	06/17/05	5168094
	44.5	62.5	105	mg/L	97	2.3	MCAWW 300.0A	06/17/05	5168094
			Dilution Factor: 5						
			Analysis Time..: 11:17		Instrument ID..: W01			Analyst ID.....: 000022	
			MS Run #.....: 5168056						
Total Organic Carbon (TOC)			WO#: HDP931AG-MS/HDP931AH-MSD				MS Lot-Sample #: E5F160183-001		
	7.2	25.0	33.3	mg/L	104		SW846 9060	06/20/05	5172206
	7.2	25.0	31.4	mg/L	97	5.7	SW846 9060	06/20/05	5172206
			Dilution Factor: 1						
			Analysis Time..: 17:55		Instrument ID..: W08			Analyst ID.....: 999995	
			MS Run #.....: 5172119						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5F170101 **Matrix.....:** WATER
Date Sampled...: 06/14/05 09:36 **Date Received..:** 06/16/05 10:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)			WO#: HDQ0J1AG-MS/HDQ0J1AH-MSD				MS Lot-Sample #: E5F160260-005		
	2.1	25.0	28.2	mg/L	104		SW846 9060	06/17/05	5171406
	2.1	25.0	27.8	mg/L	103	1.2	SW846 9060	06/17/05	5171406

Dilution Factor: 1
Analysis Time..: 19:30 Instrument ID..: W08 Analyst ID.....: 999995
MS Run #.....: 5171311

NOTE(S):

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

BOE-C6-0012044

microseeps
from insight comes solutions

Client Name: Arcadis
Contact: Eric Lothman
Address: 1400 North Harbor
Bldg # 700
Fullerton, CA 92835

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Page: Page 1 of 5
Lab Proj #: P0506319
Report Date: 06/30/05
Client Proj Name: Boeing C-6
Client Proj #: CA000663.0001.00003

Laboratory Results

Total pages in data package: 6

Lab Sample #	Client Sample ID
P0506319-01	IRZMW004-WG061505-01
P0506319-02	IRZMW002-WG061505-01
P0506319-03	CMW001-WG061505-01
P0506319-04	CMW002-WG061505-01

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Debbie Hallo

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:

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433
website www.microseeps.com email info@microseeps.com

10/8 4 P0506319

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: ERIC LOTHMAN / BARRY MOLNAA

Proj. Location: BOEING C-6

Proj. Number: CA000683.0003.00003

Phone # : (714) 278-0992 **Fax # :** (714) 278-0051

Sampler's signature : [signature]

Results to : ERIC LOTHMAN
PROJECT # CA663.01.03

Invoice to :

Cooler ID	Cooler Temp.

	Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	DISSOLVED OXYGEN	CARBON DIOXIDE	NITROGEN	METHANE	ETHANE	ETHENE			Remarks
1	IRZMW004-WG061505-01		6/15/05	1625			2 (VOA)	X	X	X	X	X	X			
2	IRZCMW002-WG061505-01		6/15/05	1759			2 (VOA)	X	X	X	X	X	X			
3	CMW001-WG061505-01		"	1908			↓	X	X	X	X	X	X			
4	CMW002-WG061505-01		"	2008			↓	X	X	X	X	X	Y			

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
STEPHEN A. GYAMFI, [signature]	ARCADIS	6/15/05	2300	[signature]	MICRO	6/17/5	1254
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

BOE-C6-0012047

Client Name: Arcadis
Contact: Eric Lothman
Address: 1400 North Harbor
Bldg # 700
Fullerton, CA 92835

Lab Proj #: P0506319
Report Date: 06/30/05
Client Proj Name: Boeing C-6
Client Proj #: CA000663.0001.00003

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW004-WG061505-01	Water	P0506319-01	15 Jun. 05 16:25	17 Jun. 05 12:54

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	42.000	5.000	mg/L	AM20GAX	6/29/05	mm
Ethane	0.047	0.025	ug/L	AM20GAX	6/29/05	mm
Ethene	0.120	0.025	ug/L	AM20GAX	6/29/05	mm
Methane	67.000	0.100	ug/L	AM20GAX	6/29/05	mm
Nitrogen	20.000	0.400	mg/L	AM20GAX	6/29/05	mm
Oxygen	2.900	0.500	mg/L	AM20GAX	6/29/05	mm

N - NELAC certified analysis

Client Name: Arcadis
Contact: Eric Lothman
Address: 1400 North Harbor
Bldg # 700
Fullerton, CA 92835

Lab Proj #: P0506319
Report Date: 06/30/05
Client Proj Name: Boeing C-6
Client Proj #: CA000663.0001.00003

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRZMW002-WG061505-01	Water	P0506319-02	15 Jun. 05 17:59	17 Jun. 05 12:54

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	30.000	5.000	mg/L	AM20GAX	6/29/05	mm
Ethane	0.086	0.025	ug/L	AM20GAX	6/29/05	mm
Ethene	0.670	0.025	ug/L	AM20GAX	6/29/05	mm
Methane	59.000	0.100	ug/L	AM20GAX	6/29/05	mm
Nitrogen	17.000	0.400	mg/L	AM20GAX	6/29/05	mm
Oxygen	0.750	0.500	mg/L	AM20GAX	6/29/05	mm

N - NELAC certified analysis

Client Name: Arcadis
Contact: Eric Lothman
Address: 1400 North Harbor
Bldg # 700
Fullerton, CA 92835

Lab Proj #: P0506319
Report Date: 06/30/05
Client Proj Name: Boeing C-6
Client Proj #: CA000663.0001.00003

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
CMW001-WG061505-01	Water	P0506319-03	15 Jun. 05 19:08	17 Jun. 05 12:54

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	10.000	5.000	mg/L	AM20GAX	6/29/05	mm
Ethane	0.220	0.025	ug/L	AM20GAX	6/29/05	mm
Ethene	0.300	0.025	ug/L	AM20GAX	6/29/05	mm
Methane	6.300	0.100	ug/L	AM20GAX	6/29/05	mm
Nitrogen	19.000	0.400	mg/L	AM20GAX	6/29/05	mm
Oxygen	2.300	0.500	mg/L	AM20GAX	6/29/05	mm

N - NELAC certified analysis

Client Name: Arcadis
Contact: Eric Lothman
Address: 1400 North Harbor
Bldg # 700
Fullerton, CA 92835

Lab Proj #: P0506319
Report Date: 06/30/05
Client Proj Name: Boeing C-6
Client Proj #: CA000663.0001.00003

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
CMW002-WG061505-01	Water	P0506319-04	15 Jun. 05 20:08	17 Jun. 05 12:54

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
Carbon dioxide	15.000	5.000	mg/L	AM20GAX	6/29/05	mm
Ethane	0.240	0.025	ug/L	AM20GAX	6/29/05	mm
Ethene	0.071	0.025	ug/L	AM20GAX	6/29/05	mm
Methane	3.300	0.100	ug/L	AM20GAX	6/29/05	mm
Nitrogen	21.000	0.400	mg/L	AM20GAX	6/29/05	mm
Oxygen	4.400	0.500	mg/L	AM20GAX	6/29/05	mm

N - NELAC certified analysis