1R - 492

AGWMR

08/10/2009

IR 491 / IR 492

TETRA TECH

E.C. HILL B. FEDERAL #7 AND B-D TANK BATTERY ANNUAL GROUNDWATER SAMPLING REPORT

LOCATED IN LEA COUNTY, NEW MEXICO

Prepared for:

GLENN SPRINGS HOLDINGS
(A wholly owned subsidiary of Occidental Petroleum)

Prepared by:

Tetra Tech
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559
Fax (432) 682-3946

Tetra Tech Project No. 115-6402942
AUGUST 10, 2009

complex world CLEAR SOLUTIONS™

TETRA TECH

August 10, 2009

Mr. Glenn von Gonten
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

Re: October 2008 through June 2009 Annual Groundwater Sampling Report for the OXY USA, Inc., E.C. Hill Federal B-D Tank Battery and E.C. Hill Federal #7 Tank Battery, Located in Sections 34 and 35, Township 23 South, Range 37 East, Lea County, New Mexico, OCD Case Numbers 1R491 and 1R492, respectively.

Mr. Von Gonten:

This report details the results of the quarterly sampling events, which began in the third quarter of 2008, performed at the OXY USA, Inc. (OXY) E. C. Hill Federal B-D and E.C. Hill Federal #7 Tank battery (Site). The two sites are located adjacent to one another approximately 9 miles north/northeast of Jal, Lea County, New Mexico. Due to the close proximity to one another, the two sites are included in one annual report. The site locations are shown on Figure 1.

FACILITY BACKGROUND

The facilities are old tank batteries, which have had numerous spills from previous operators. Prior to OXY, the facilities were operated by Plains Exploration (PXP), Pogo Producing Company, and Latigo Petroleum, Inc. In March 2008, OXY acquired operating responsibility for this site from PXP.

E.C. Hill Federal B-D Tank Battery

In 2006, as part of a due diligence investigation, a soils investigation was performed at the site. The soil investigation consisted of placement of ten (10) auger holes (AH) and three (3) boreholes (BH) in and around the tank battery, to assess the subsurface soils. The auger hole soil samples were found to be impacted with hydrocarbons to depths of 1 to 6 feet below ground surface (bgs),

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with several auger holes not defined. In order to complete delineation, three soil borings (BH-1 through BH-3) were drilled in these areas. Based on the results of the investigation, TPH was defined at depths of 25 feet bgs, 15 feet bgs, and 60 feet bgs in boreholes BH-1 through BH-3, respectively. Borehole BH-3, which had hydrocarbons extending to 60 feet bgs, was converted to a monitor well (MW-1) to assess the groundwater quality at the site.

In September 2006 and May 2007, the well was purged and sampled per NMOCD guidelines for analysis of chlorides and BTEX. BTEX was not detected at or above reporting limits for either sampling event. Chloride concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standards for both sampling events with concentrations of 1,150 mg/L and 729 mg/L, respectively.

E.C. Hill Federal #7 Tank Battery

In 2006, as part of a due diligence investigation, a soils investigation was performed at the site. The soil investigation consisted of placement of seven (7) auger holes (AH) and one (1) borehole (BH) in an impacted area south of the tank battery, to assess the subsurface soils. Borehole BH-1, which had hydrocarbons extending to 40 feet bgs, was converted to a monitor well (MW-7) to assess the groundwater quality at the site.

In September 2006 and May 2007, the well was purged and sampled per NMOCD guidelines for analysis of chlorides and BTEX. For the September 2006 sampling event, the chloride and BTEX concentrations did not exceed the NMWQCC standards. During the May 2007 sampling event, the BTEX concentration was below the NMWQCC standards, however, the chloride exceeded the NMWQCC standard with a concentration of 1,220 mg/L.

In order to complete delineation of the groundwater at the two sites, an additional five monitor wells (MW-2 through MW-6) were installed at the sites between December 4 and December 11, 2007. The newly installed monitor wells were sampled in October 2008. The site monitor well locations are shown on Figure 2.

Gauging and Monitor Well Sampling

On October 22, December 11, 2008, and March 11 and June 10, 2009, Tetra Tech, Inc. was onsite to gauge, purge, and sample all monitor wells. Utilizing the water level elevation calculations, groundwater gradient maps were generated for each of the sampling events. The hydraulic gradient was to the east in October and southeast in December 2008, March and June 2009. The groundwater gradient maps for the four sampling events are included as Figures

3 through 6. Gauging data is summarized in Table 1. No Phase Separated Hydrocarbons (PSH) were measured in any of the monitor wells throughout the year.

During the sampling events, each of the wells was properly purged utilizing a submersible pump and sampled for BTEX, chlorides, and anions/cations (October sampling event). The samples were properly preserved and were submitted under proper chain-of-custody control to Trace Analysis Inc. of Lubbock, Texas, ALS Laboratory Group, or Accutest of Houston, Texas for analysis of BTEX by EPA Method SW8021B, major anions and cations utilizing EPA methods SM2320B, S6010B, SM4500-H+, SM2540C, and E 300.0 and chlorides by EPA Method 300.0. Analytical results indicate that BTEX was not detected at or above detection limits for all monitor wells during the four sampling events. Chlorides ranged from 87.4 mg/L in monitor well MW-6 to 1,360 mg/L in monitor well MW-7. Chlorides exceeded the NMWQCC standards of 250 mg/L in monitor wells MW-1, MW-4, MW-5 (down-gradient), and MW-7 for all sampling events and MW-2 in the December sampling event. Chloride concentration maps for the four sampling events are included as Figures 7 through 10. The analyses are shown in Tables 2 and 3. Copies of the laboratory analyses are enclosed in Appendix A.

CONCLUSIONS

1. No Phase Separated Hydrocarbons (PSH) was measured in any of the monitor wells throughout the year.

2. The hydraulic gradient direction was to the east in October and to the southeast in December 2008, March and June 2009.

3. BTEX concentrations were not detected at or above detection limits for any of the monitor wells during the four sampling events.

4. Chlorides ranged from 87.4 mg/L in monitor well MW-6 to 1,360 mg/L in monitor well MW-7. Chlorides exceeded the NMWQCC standards of 250 mg/L in monitor wells MW-1, MW-4, MW-5 (down-gradient), and MW-7 for all sampling events and MW-2 in the December sampling event.

5. As of this update, the chlorides have not been delineated to the east (down-gradient) of MW-5 or south (cross-gradient) of MW-4.

TETRA TECH

RECOMMENDATIONS

1. Quarterly groundwater monitoring and gauging will be continued throughout the year.

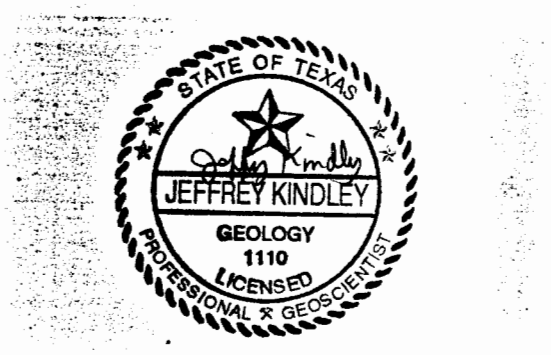
2. The chloride impact to groundwater will be delineated.

If you have any question or comments concerning the assessment or the activities performed at the Site, please call me at (432) 682-4559.

Respectfully submitted,
Tetra Tech, Inc.

Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc: Rick Passmore –Glenn Spring Holdings



FIGURES

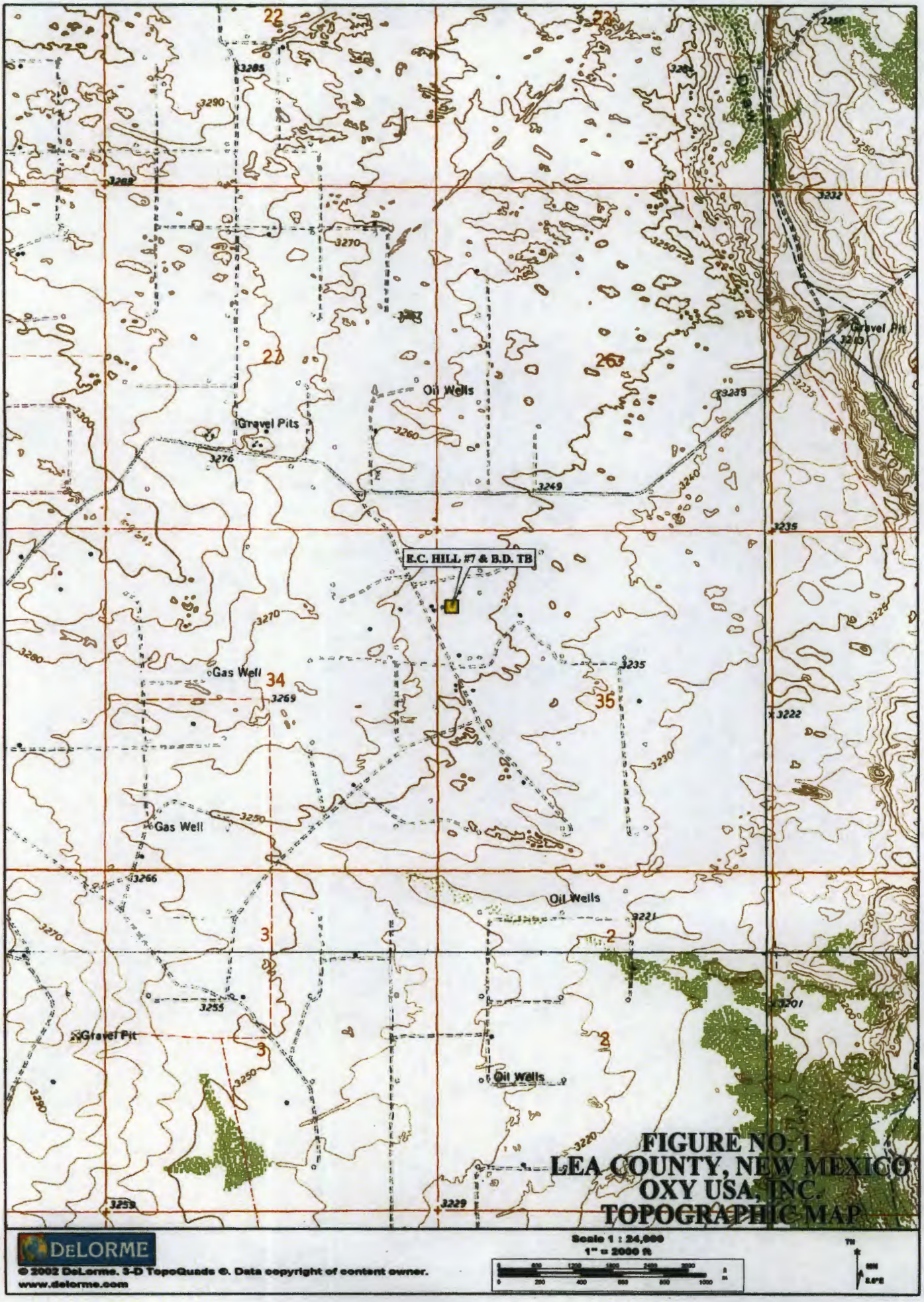


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
OXY USA, INC.
TOPOGRAPHIC MAP

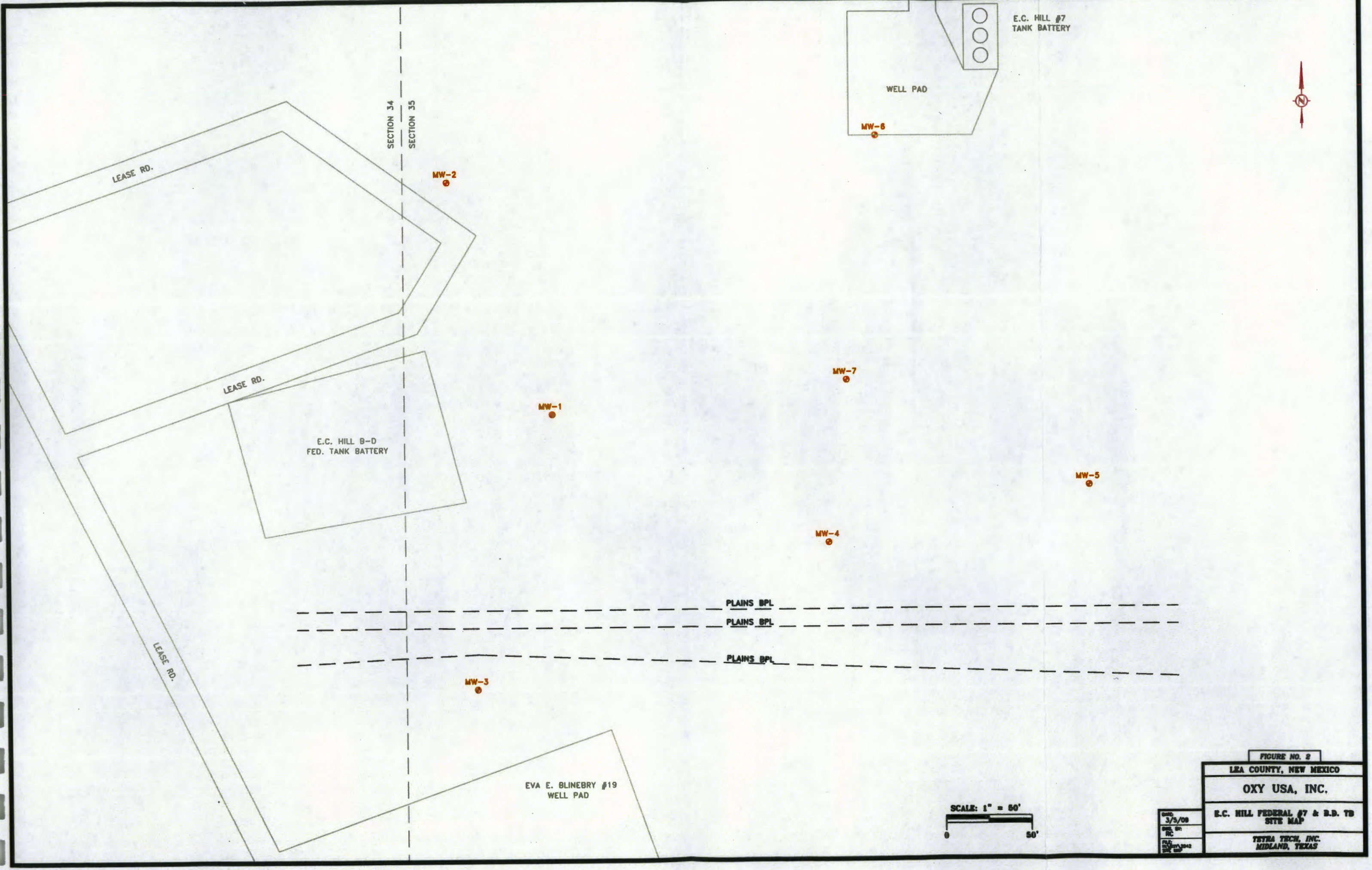


FIGURE NO. 2

LEA COUNTY, NEW MEXICO

OXY USA, INC.

E.C. HILL FEDERAL #7 & B.D. TB
SITE MAP

TETRA TECH, INC.
MIDLAND, TEXAS

DWG: 3/5/09
DWG. BY: RC
FILE:

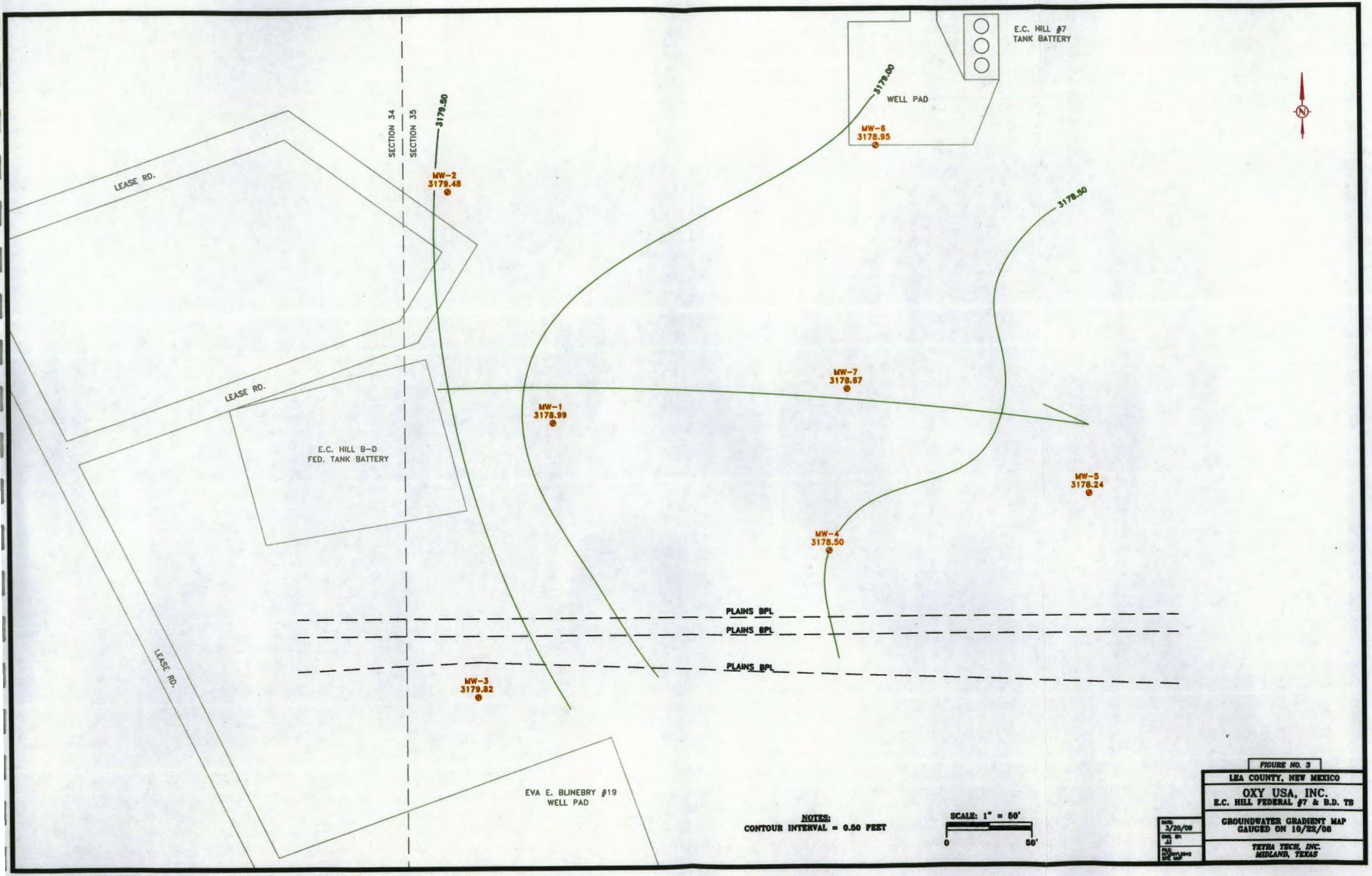

E.C. HILL #7
TANK BATTERY
WELL PAD
3179.00
MW-6
3178.95
SECTION 34
SECTION 35
3179.50
MW-2
3179.48
LEASE RD.
LEASE RD.
3178.50
MW-7
3178.67
MW-1
3178.99
E.C. HILL B-D
FED. TANK BATTERY
MW-5
3178.24
MW-4
3178.50
PLAINS BPL
PLAINS BPL
PLAINS BPL
MW-3
3179.82
LEASE RD.
EVA E. BLINEBRY #19
WELL PAD
NOTES:
CONTOUR INTERVAL = 0.50 FEET
SCALE: 1" = 50'
0
50'
FIGURE NO. 3
LEA COUNTY, NEW MEXICO
OXY USA, INC.
E.C. HILL FEDERAL #7 & B.D. TB
GROUNDWATER GRADIENT MAP
GAUGED ON 10/22/08
TETRA TECH, INC.
MIDLAND, TEXAS
DATE: 3/20/09
DWG. BY: JJ

FIGURE NO. 4

LEA COUNTY, NEW MEXICO

OXY USA, INC.

E.C. HILL FEDERAL #7 & B.D. TB

GROUNDWATER GRADIENT MAP
GAUGED ON 12/12/08

TETRA TECH, INC.
MIDLAND, TEXAS

DATE	3/20/09
DWG BY	JJ
PROJECT MGR	

SCALE: 1" = 30'

0 30'

NOTES:
CONTOUR INTERVAL = 0.50 FEET

EVA E. BLINEBRY #19
WELL PAD

LEASE RD.

E.C. HILL B-D
FED. TANK BATTERY

LEASE RD.

LEASE RD.

PLAINS BPL

PLAINS BPL

PLAINS BPL

MW-3
3178.86

MW-4
3178.53

MW-5
3178.28

MW-1
3179.42

MW-7
3178.71

MW-2
3179.54

MW-6
3179.01

3178.50

3178.50

3178.50

SECTION 34

SECTION 35

WELL PAD

E.C. HILL #7
TANK BATTERY

N

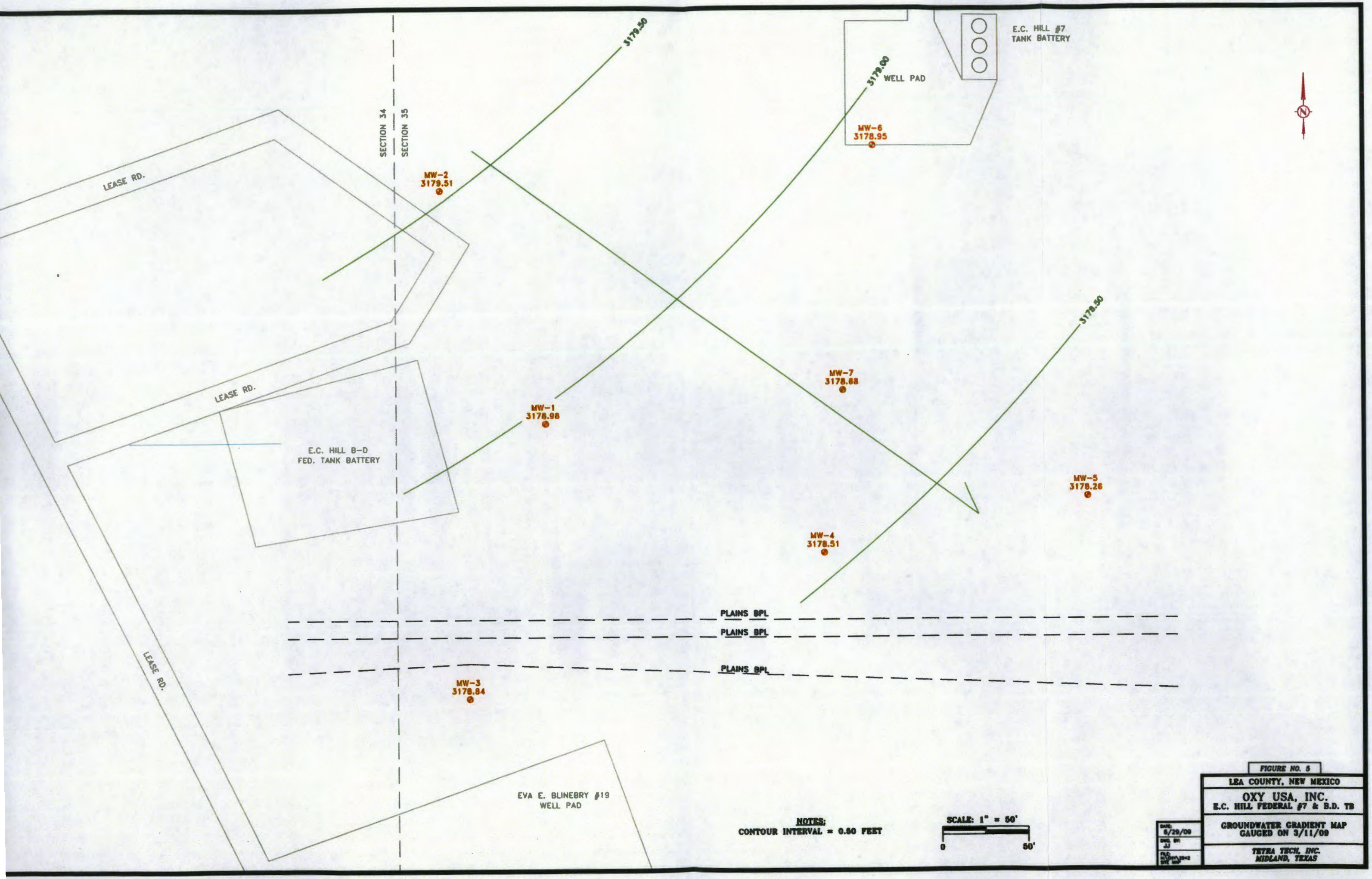

3179.50
3179.00
E.C. HILL #7
TANK BATTERY
WELL PAD
MW-6
3178.95
SECTION 34
SECTION 35
MW-2
3179.51
LEASE RD.
LEASE RD.
MW-7
3178.68
MW-1
3178.98
3178.50
E.C. HILL B-D
FED. TANK BATTERY
MW-5
3178.26
MW-4
3178.51
PLAINS BPL
PLAINS BPL
PLAINS BPL
LEASE RD.
MW-3
3178.84
EVA E. BLINEBRY #19
WELL PAD
NOTES:
CONTOUR INTERVAL = 0.50 FEET
SCALE: 1" = 50'
0
50'
FIGURE NO. 5
LEA COUNTY, NEW MEXICO
OXY USA, INC.
E.C. HILL FEDERAL #7 & B.D. TB
GROUNDWATER GRADIENT MAP
GAUGED ON 3/11/09
TETRA TECH, INC.
MIDLAND, TEXAS
DATE: 6/29/09
CHK. BY: JJ

FIGURE NO. 6

LEA COUNTY, NEW MEXICO

OXY USA, INC.

E.C. HILL FEDERAL #7 & B.D. TB

GROUNDWATER GRADIENT MAP
GAUGED ON 8/10/09

TETRA TECH, INC.
MIDLAND, TEXAS

DATE: 6/29/09
DWG. BY: JJ
PROJECT #: [illegible]

NOTES:
CONTOUR INTERVAL = 0.50 FEET

SCALE: 1" = 60'
0 60'

EVA E. BLINEBRY #19
WELL PAD

E.C. HILL B-D
FED. TANK BATTERY

E.C. HILL #7
TANK BATTERY

WELL PAD

LEASE RD.

LEASE RD.

LEASE RD.

SECTION 34

SECTION 35

PLAINS BPL

PLAINS BPL

PLAINS BPL

MW-1
3179.03

MW-2
3178.54

MW-3
3178.88

MW-4
3178.54

MW-5
3178.29

MW-6
3178.98

MW-7
3178.72

3178.50

3178.50

3178.50

N

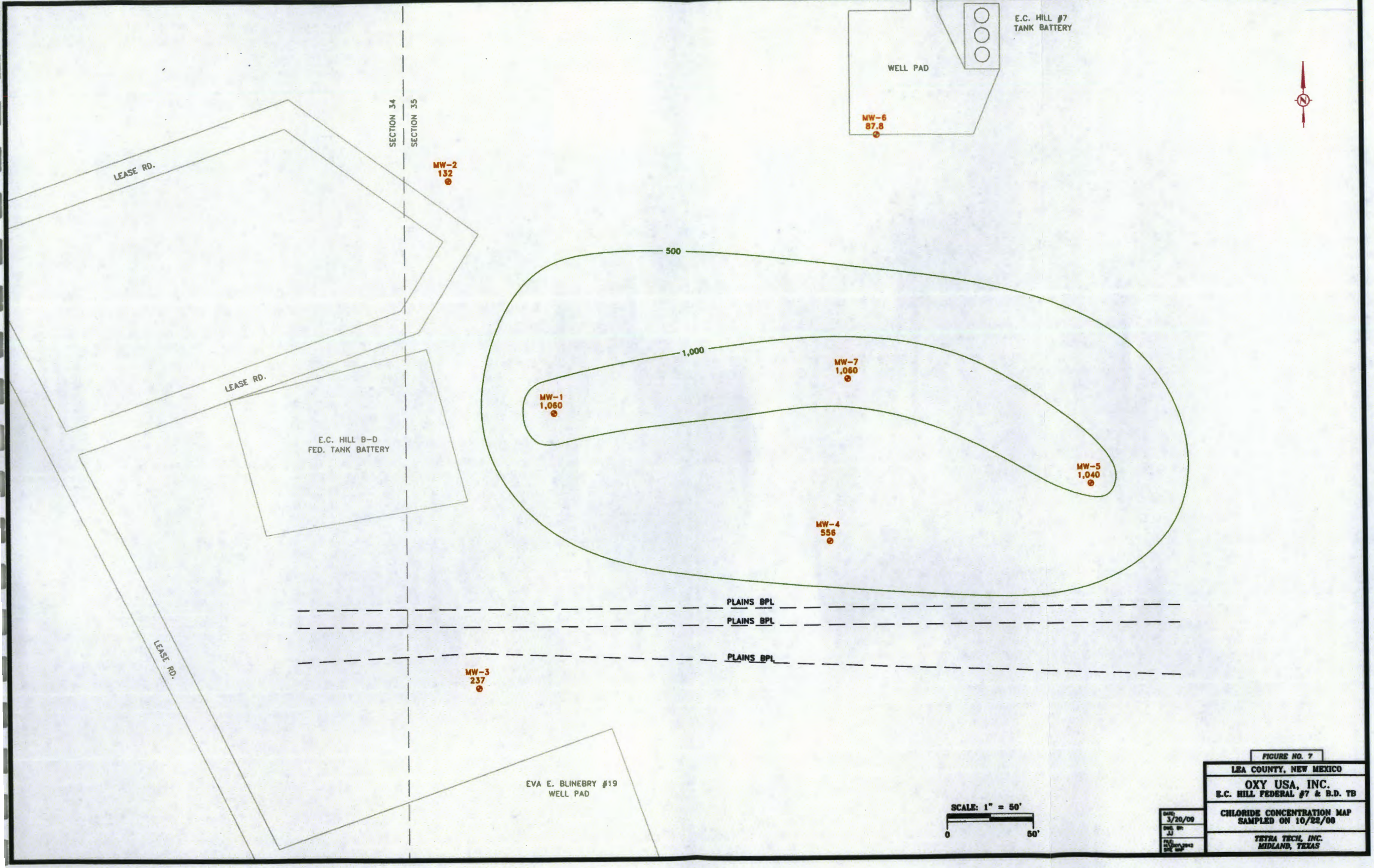


FIGURE NO. 7

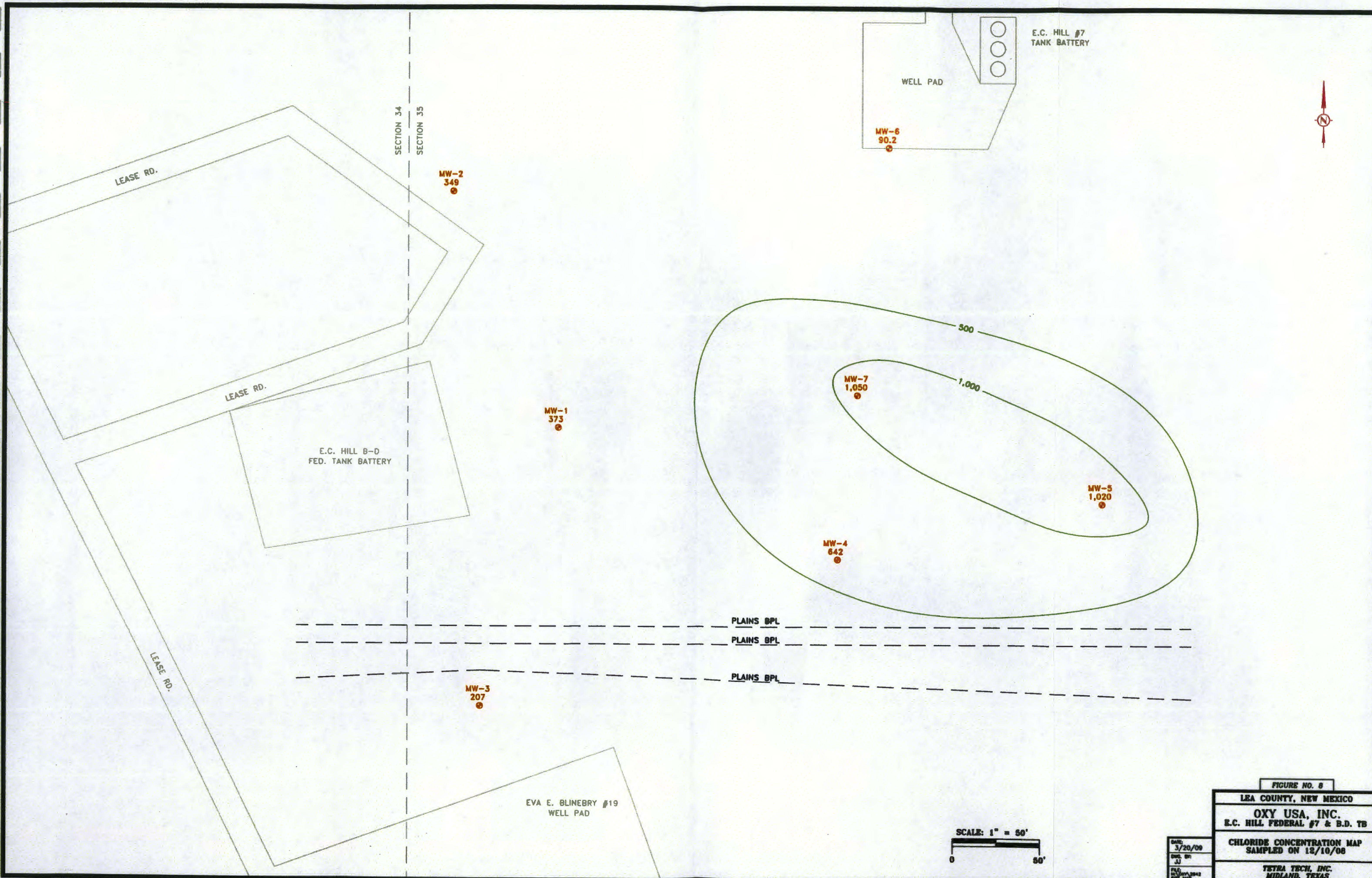
LEA COUNTY, NEW MEXICO

OXY USA, INC.
E.C. HILL FEDERAL #7 & B.D. TB

CHLORIDE CONCENTRATION MAP
SAMPLED ON 10/22/08

TETRA TECH, INC.
MIDLAND, TEXAS

DATE: 3/20/09
DWG. BY: JJ


E.C. HILL #7
TANK BATTERY
WELL PAD
MW-6
90.2
LEASE RD.
SECTION 34
SECTION 35
MW-2
349
LEASE RD.
E.C. HILL B-D
FED. TANK BATTERY
MW-1
373
500
1,000
MW-7
1,050
MW-5
1,020
MW-4
642
PLAINS BPL
PLAINS BPL
PLAINS BPL
LEASE RD.
MW-3
207
EVA E. BLINEBRY #19
WELL PAD
SCALE: 1" = 50'
0
50'
DATE: 3/20/09
FIGURE NO. 8
LEA COUNTY, NEW MEXICO
OXY USA, INC.
E.C. HILL FEDERAL #7 & B.D. TB
CHLORIDE CONCENTRATION MAP
SAMPLED ON 12/10/08
TETRA TECH, INC.
MIDLAND, TEXAS

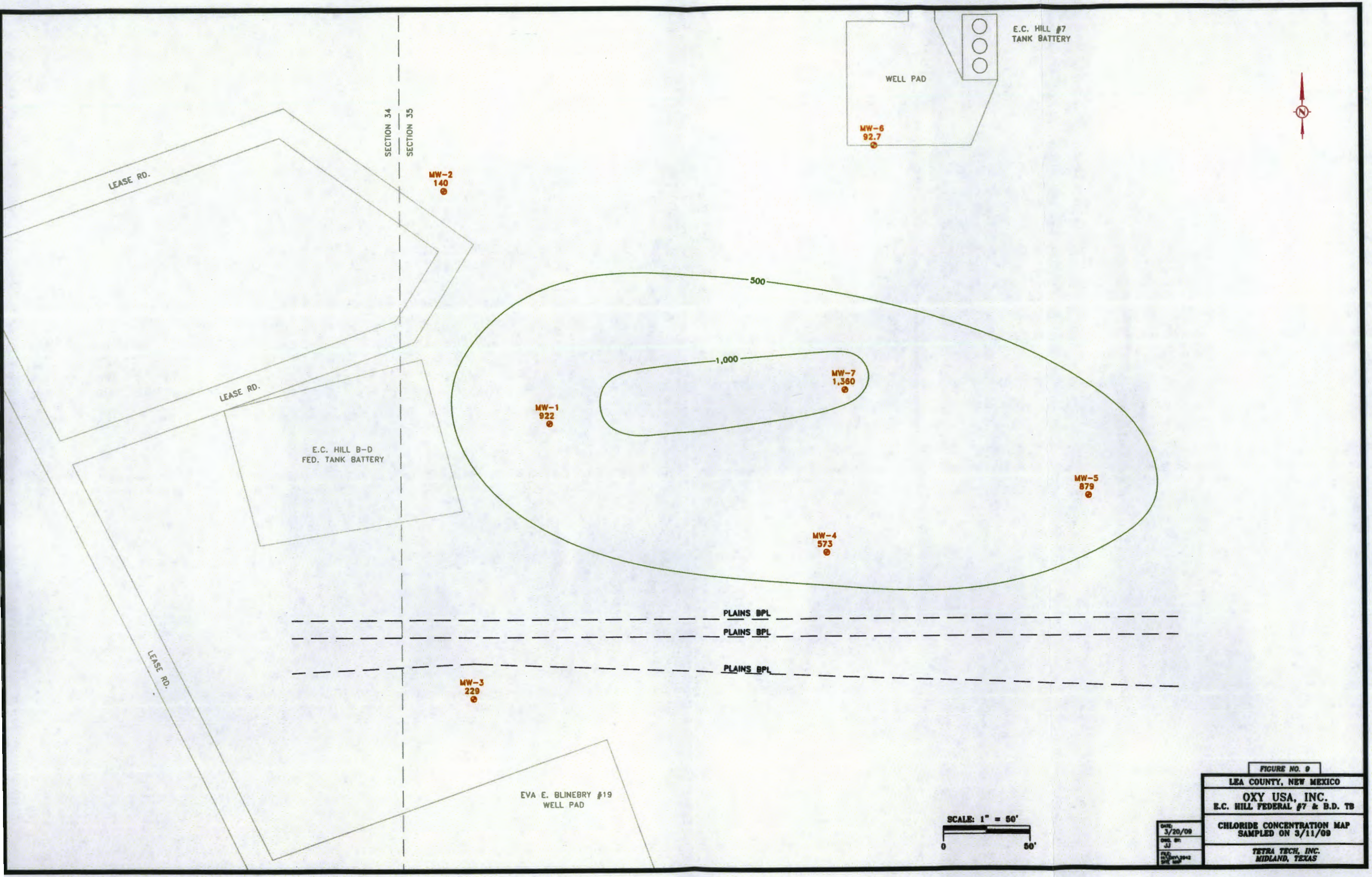


FIGURE NO. 9

LEA COUNTY, NEW MEXICO

OXY USA, INC.
E.C. HILL FEDERAL #7 & B.D. TB

CHLORIDE CONCENTRATION MAP
SAMPLED ON 3/11/09

TETRA TECH, INC.
MIDLAND, TEXAS

DATE: 3/20/09
DWG. BY: JJ
FILE:

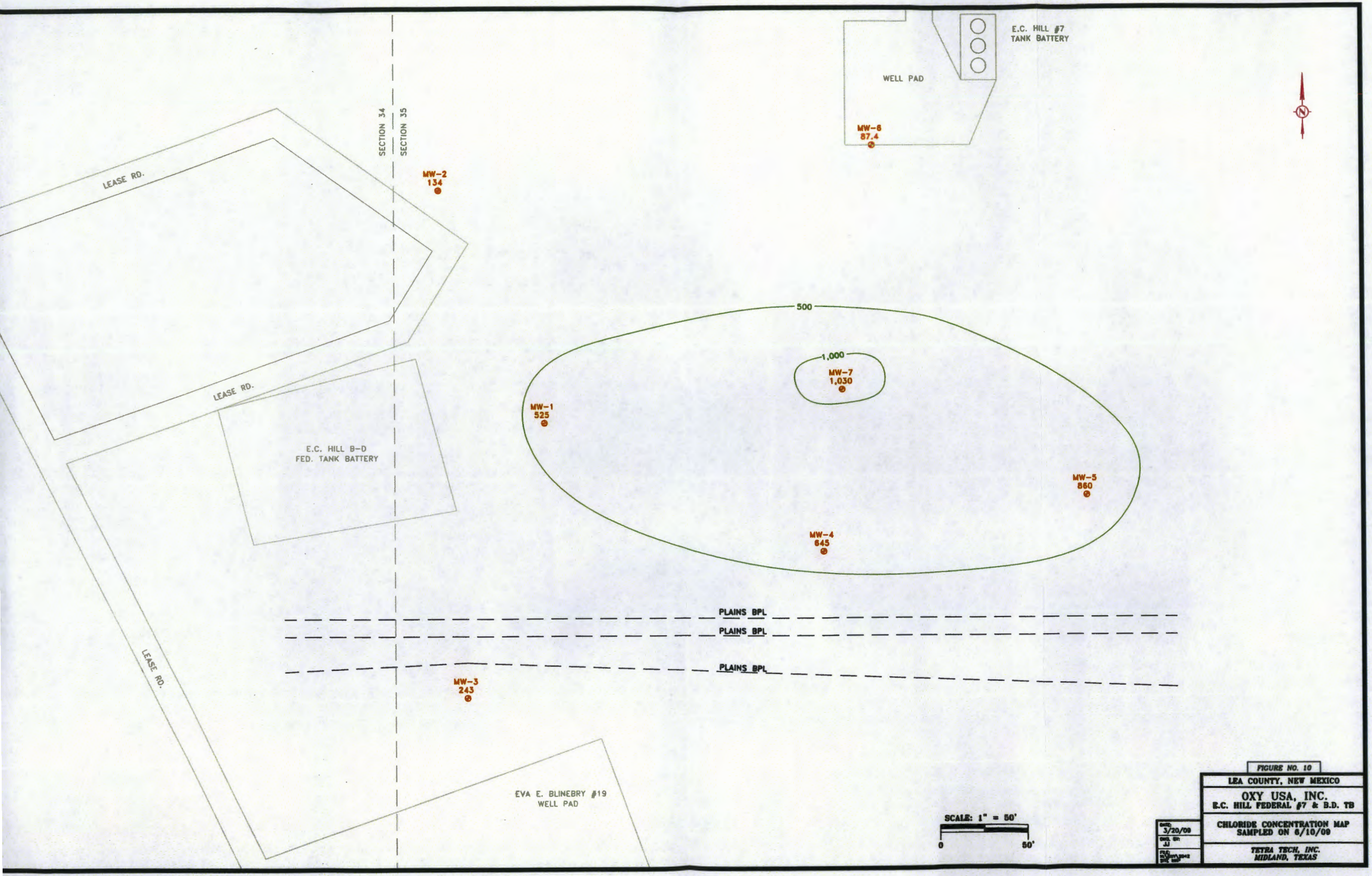


FIGURE NO. 10

LEA COUNTY, NEW MEXICO

OXY USA, INC.
E.C. HILL FEDERAL #7 & B.D. TB

CHLORIDE CONCENTRATION MAP
SAMPLED ON 6/10/09

TETRA TECH, INC.
MIDLAND, TEXAS

DATE: 3/20/09
DWG. BY: JJ
FILE:

Table 1
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Groundwater Elevations and PSH Thickness
Lea County, New Mexico

MW-1	10/22/08	3257.81	93.00	--	78.82	--	3178.99
	12/11/08			--	78.39	--	3179.42
	03/11/09			--	78.83	--	3178.98
	06/10/09			--	78.78	--	3179.03
MW-2	10/23/08	3258.87	91.30	--	79.39	--	3179.48
	12/12/08			--	79.33	--	3179.54
	03/11/09			--	79.36	--	3179.51
	06/10/09			--	79.33	--	3179.54
MW-3	10/23/08	3259.24	92.75	--	79.42	--	3179.82
	12/12/08			--	80.38	--	3178.86
	03/11/09			--	80.40	--	3178.84
	06/10/09			--	80.36	--	3178.88
MW-4	10/23/08	3258.53	91.00	--	80.03	--	3178.50
	12/12/08			--	80.00	--	3178.53
	03/11/09			--	80.02	--	3178.51
	06/10/09			--	79.99	--	3178.54
MW-5	10/23/08	3255.69	92.50	--	77.45	--	3178.24
	12/12/08			--	77.41	--	3178.28
	03/11/09			--	77.43	--	3178.26
	06/10/09			--	77.4	--	3178.29
MW-6	10/23/08	3257.98	93.00	--	79.03	--	3178.95
	12/12/08			--	78.97	--	3179.01
	03/11/09			--	79.03	--	3178.95
	06/10/09			--	79.00	--	3178.98
MW-7	10/23/08	3256.95	93.00	--	78.28	--	3178.67
	12/12/08			--	78.24	--	3178.71

Table 1
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Groundwater Elevations and PSH Thickness
Lea County, New Mexico

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-7	03/11/09			--	78.27	--	3178.68
	06/10/09			--	78.23	--	3178.72

(-) No data (TOC) Top of casing

Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

MW-1	09/22/06	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	**1,150**
	05/16/07	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	**729**
	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	**1060**
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	**373**
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	**922**
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	**610**
MW-1 DUP	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	**525**
MW-2	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	132
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	**349**
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	140
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	134
MW-3	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	237
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	207
	03/11/09	<0.001	0.00052	<0.001	<0.003	<0.003	-	-	-	229
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	243
MW-4	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	**556**
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	**642**
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	**573**
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	**645**

APPENDIX A
LABORATORY ANALYTICAL

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

Tim Reed
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: November 5, 2008

Work Order: 8102411

Project Location: Lea Co.
Project Name: Oxy/E.C. Hill, B-D & Fed. #7 TB
Project Number: 115-6402943

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
177241	MW-1 (BD)	water	2008-10-22	00:00	2008-10-24
177242	MW-2	water	2008-10-22	00:00	2008-10-24
177243	MW-3	water	2008-10-22	00:00	2008-10-24
177244	MW-4	water	2008-10-22	00:00	2008-10-24
177245	MW-5	water	2008-10-22	00:00	2008-10-24
177246	MW-6	water	2008-10-22	00:00	2008-10-24
177247	MW-7 (Fed #7 TB)	water	2008-10-22	00:00	2008-10-24

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 42 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Oxy/E.C. Hill, B-D & Fed. #7 TB were received by TraceAnalysis, Inc. on 2008-10-24 and assigned to work order 8102411. Samples for work order 8102411 were received intact without headspace and at a temperature of 3.0 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Alkalinity	SM 2320B
BTEX	S 8021B
Ca, Dissolved	S 6010B
Chloride (IC)	E 300.0
Hardness	S 6010B
K, Dissolved	S 6010B
Mg, Dissolved	S 6010B
Na, Dissolved	S 6010B
pH	SM 4500-H+
SO4 (IC)	E 300.0
TDS	SM 2540C

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8102411 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 177241 - MW-1 (BD)

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	53708	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45973	Sample Preparation:	2008-10-28	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**349**		mg/L as CaCo3	1	4.00
Total Alkalinity		**349**		mg/L as CaCo3	1	4.00

Sample: 177241 - MW-1 (BD)

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	53629	Date Analyzed:	2008-10-24	Analyzed By:	AG
Prep Batch:	45915	Sample Preparation:	2008-10-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0914	mg/L	1	0.100	91	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0910	mg/L	1	0.100	91	40.1 - 136

Sample: 177241 - MW-1 (BD)

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**404**		mg/L	10	1.00

Sample: 177241 - MW-1 (BD)

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1060**		mg/L	100	0.500

Sample: 177241 - MW-1 (BD)

Laboratory:	Lubbock				
Analysis:	Hardness	Analytical Method:	S 6010B	Prep Method:	N/A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Hardness (by ICP)		**1260**		mg eq CaCO3/L	1	0.00

Sample: 177241 - MW-1 (BD)

Laboratory:	Lubbock				
Analysis:	K, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Potassium		**15.0**		mg/L	1	1.00

Sample: 177241 - MW-1 (BD)

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Magnesium		**62.4**		mg/L	1	1.00

Sample: 177241 - MW-1 (BD)

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Sodium		**384**		mg/L	10	1.00

Sample: 177241 - MW-1 (BD)

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	53609	Date Analyzed:	2008-10-24	Analyzed By:	AR
Prep Batch:	45899	Sample Preparation:	2008-10-24	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
pH		**6.68**		s.u.	1	0.00

Sample: 177241 - MW-1 (BD)

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Sulfate		**260**		mg/L	5	0.500

Sample: 177241 - MW-1 (BD)

Laboratory:	Midland				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	Sample Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**2420**		mg/L	5	10.0

Sample: 177242 - MW-2

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	53708	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45973	Sample Preparation:	2008-10-28	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**221**	mg/L as CaCo3	1	4.00
Total Alkalinity		**221**	mg/L as CaCo3	1	4.00

Sample: 177242 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	53629	Date Analyzed:	2008-10-24	Analyzed By:	AG
Prep Batch:	45915	Sample Preparation:	2008-10-24	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0924	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0895	mg/L	1	0.100	90	40.1 - 136

Sample: 177242 - MW-2

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**154**	mg/L	1	1.00

Sample: 177242 - MW-2

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**132**	mg/L	5	0.500

Sample: 177242 - MW-2

Laboratory:	Lubbock				
Analysis:	Hardness	Analytical Method:	S 6010B	Prep Method:	N/A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Hardness (by ICP)		**510**	mg eq CaCO3/L	1	0.00

Sample: 177242 - MW-2

Laboratory:	Lubbock				
Analysis:	K, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Potassium		**6.01**	mg/L	1	1.00

Sample: 177242 - MW-2

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Magnesium		**30.5**	mg/L	1	1.00

Sample: 177242 - MW-2

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Sodium		**94.5**	mg/L	1	1.00

Sample: 177242 - MW-2

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	53609	Date Analyzed:	2008-10-24	Analyzed By:	AR
Prep Batch:	45899	Sample Preparation:	2008-10-24	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
pH		**7.45**	s.u.	1	0.00

Sample: 177242 - MW-2

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Sulfate		**256**	mg/L	5	0.500

Sample: 177242 - MW-2

Laboratory:	Midland				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	Sample Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Total Dissolved Solids		**858**	mg/L	2	10.0

Sample: 177243 - MW-3

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	53708	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45973	Sample Preparation:	2008-10-28	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**288**		mg/L as CaCo3	1	4.00
Total Alkalinity		**288**		mg/L as CaCo3	1	4.00

Sample: 177243 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	53629	Date Analyzed:	2008-10-24	Analyzed By:	AG
Prep Batch:	45915	Sample Preparation:	2008-10-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0933	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0912	mg/L	1	0.100	91	40.1 - 136

Sample: 177243 - MW-3

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**216**		mg/L	1	1.00

Sample: 177243 - MW-3

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**237**	mg/L	10	0.500

Sample: 177243 - MW-3

Laboratory:	Lubbock				
Analysis:	Hardness	Analytical Method:	S 6010B	Prep Method:	N/A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Hardness (by ICP)		**679**	mg eq CaCO3/L	1	0.00

Sample: 177243 - MW-3

Laboratory:	Lubbock				
Analysis:	K, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Potassium		**6.03**	mg/L	1	1.00

Sample: 177243 - MW-3

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Magnesium		**34.0**	mg/L	1	1.00

Sample: 177243 - MW-3

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Sodium		**128**		mg/L	1	1.00

Sample: 177243 - MW-3

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	53609	Date Analyzed:	2008-10-24	Analyzed By:	AR
Prep Batch:	45899	Sample Preparation:	2008-10-24	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
pH		**7.34**		s.u.	1	0.00

Sample: 177243 - MW-3

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Sulfate		**289**		mg/L	5	0.500

Sample: 177243 - MW-3

Laboratory:	Midland				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	Sample Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**1110**		mg/L	2	10.0

Sample: 177244 - MW-4

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	53708	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45973	Sample Preparation:	2008-10-28	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**289**	mg/L as CaCo3	1	4.00
Total Alkalinity		**289**	mg/L as CaCo3	1	4.00

Sample: 177244 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	53629	Date Analyzed:	2008-10-24	Analyzed By:	AG
Prep Batch:	45915	Sample Preparation:	2008-10-24	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0931	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0917	mg/L	1	0.100	92	40.1 - 136

Sample: 177244 - MW-4

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**178**	mg/L	1	1.00

Sample: 177244 - MW-4

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**556**	mg/L	50	0.500

Sample: 177244 - MW-4

Laboratory:	Lubbock				
Analysis:	Hardness	Analytical Method:	S 6010B	Prep Method:	N/A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Hardness (by ICP)		**562**	mg eq CaCO3/L	1	0.00

Sample: 177244 - MW-4

Laboratory:	Lubbock				
Analysis:	K, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Potassium		**9.28**	mg/L	1	1.00

Sample: 177244 - MW-4

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Magnesium		**28.6**	mg/L	1	1.00

Sample: 177244 - MW-4

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Sodium		**398**		mg/L	10	1.00

Sample: 177244 - MW-4

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	53609	Date Analyzed:	2008-10-24	Analyzed By:	AR
Prep Batch:	45899	Sample Preparation:	2008-10-24	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
pH		**7.67**		s.u.	1	0.00

Sample: 177244 - MW-4

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Sulfate		**346**		mg/L	50	0.500

Sample: 177244 - MW-4

Laboratory:	Midland				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	Sample Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**1680**		mg/L	2	10.0

Sample: 177245 - MW-5

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	53708	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45973	Sample Preparation:	2008-10-28	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**229**		mg/L as CaCo3	1	4.00
Total Alkalinity		**229**		mg/L as CaCo3	1	4.00

Sample: 177245 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	53629	Date Analyzed:	2008-10-24	Analyzed By:	AG
Prep Batch:	45915	Sample Preparation:	2008-10-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0928	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0893	mg/L	1	0.100	89	40.1 - 136

Sample: 177245 - MW-5

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**232**		mg/L	1	1.00

Sample: 177245 - MW-5

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1040**	mg/L	100	0.500

Sample: 177245 - MW-5

Laboratory:	Lubbock				
Analysis:	Hardness	Analytical Method:	S 6010B	Prep Method:	N/A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Hardness (by ICP)		**709**	mg eq CaCO3/L	1	0.00

Sample: 177245 - MW-5

Laboratory:	Lubbock				
Analysis:	K, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Potassium		**11.0**	mg/L	1	1.00

Sample: 177245 - MW-5

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Magnesium		**31.5**	mg/L	1	1.00

Sample: 177245 - MW-5

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Sodium		**564**	mg/L	10	1.00

Sample: 177245 - MW-5

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	53609	Date Analyzed:	2008-10-24	Analyzed By:	AR
Prep Batch:	45899	Sample Preparation:	2008-10-24	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
pH		**7.72**	s.u.	1	0.00

Sample: 177245 - MW-5

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53709	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45928	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Sulfate		**246**	mg/L	5	0.500

Sample: 177245 - MW-5

Laboratory:	Midland				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	Sample Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Total Dissolved Solids		**2120**	mg/L	5	10.0

Sample: 177246 - MW-6

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	53708	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45973	Sample Preparation:	2008-10-28	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**208**		mg/L as CaCo3	1	4.00
Total Alkalinity		**208**		mg/L as CaCo3	1	4.00

Sample: 177246 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	53630	Date Analyzed:	2008-10-25	Analyzed By:	AG
Prep Batch:	45915	Sample Preparation:	2008-10-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0898	mg/L	1	0.100	90	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0867	mg/L	1	0.100	87	40.1 - 136

Sample: 177246 - MW-6

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**101**		mg/L	1	1.00

Sample: 177246 - MW-6

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53710	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45929	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**87.8**	mg/L	5	0.500

Sample: 177246 - MW-6

Laboratory:	Lubbock				
Analysis:	Hardness	Analytical Method:	S 6010B	Prep Method:	N/A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Hardness (by ICP)		**340**	mg eq CaCO3/L	1	0.00

Sample: 177246 - MW-6

Laboratory:	Lubbock				
Analysis:	K, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Potassium		**5.78**	mg/L	1	1.00

Sample: 177246 - MW-6

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Magnesium		**21.3**	mg/L	1	1.00

Sample: 177246 - MW-6

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Sodium		**107**		mg/L	1	1.00

Sample: 177246 - MW-6

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	53609	Date Analyzed:	2008-10-24	Analyzed By:	AR
Prep Batch:	45899	Sample Preparation:	2008-10-24	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
pH		**8.18**		s.u.	1	0.00

Sample: 177246 - MW-6

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53710	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45929	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Sulfate		**230**		mg/L	5	0.500

Sample: 177246 - MW-6

Laboratory:	Midland				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	Sample Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**732**		mg/L	1	10.0

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	53708	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45973	Sample Preparation:	2008-10-28	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**405**		mg/L as CaCo3	1	4.00
Total Alkalinity		**405**		mg/L as CaCo3	1	4.00

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	53630	Date Analyzed:	2008-10-25	Analyzed By:	AG
Prep Batch:	45915	Sample Preparation:	2008-10-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0925	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0796	mg/L	1	0.100	80	40.1 - 136

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**160**		mg/L	1	1.00

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53710	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45929	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1200**	mg/L	100	0.500

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Lubbock				
Analysis:	Hardness	Analytical Method:	S 6010B	Prep Method:	N/A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Hardness (by ICP)		**547**	mg eq CaCO3/L	1	0.00

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Lubbock				
Analysis:	K, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Potassium		**13.1**	mg/L	1	1.00

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Magnesium		**35.9**	mg/L	1	1.00

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	Sample Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Sodium		**798**	mg/L	10	1.00

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	53609	Date Analyzed:	2008-10-24	Analyzed By:	AR
Prep Batch:	45899	Sample Preparation:	2008-10-24	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
pH		**7.41**	s.u.	1	0.00

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	53710	Date Analyzed:	2008-10-28	Analyzed By:	AR
Prep Batch:	45929	Sample Preparation:	2008-10-27	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Sulfate		**282**	mg/L	5	0.500

Sample: 177247 - MW-7 (Fed #7 TB)

Laboratory:	Midland				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	Sample Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Total Dissolved Solids		**2600**	mg/L	5	10.0

Method Blank (1) QC Batch: 53629

QC Batch: 53629 | Date Analyzed: 2008-10-24 | Analyzed By: AG
Prep Batch: 45915 | QC Preparation: 2008-10-24 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0914	mg/L	1	0.100	91	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0938	mg/L	1	0.100	94	69.1 - 122.3

Method Blank (1) QC Batch: 53630

QC Batch: 53630 | Date Analyzed: 2008-10-25 | Analyzed By: AG
Prep Batch: 45915 | QC Preparation: 2008-10-24 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0902	mg/L	1	0.100	90	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0851	mg/L	1	0.100	85	69.1 - 122.3

Method Blank (1) QC Batch: 53708

QC Batch: 53708 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45973 | QC Preparation: 2008-10-28 | Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4

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Parameter	Flag	MDL Result	Units	RL
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1) QC Batch: 53709

QC Batch: 53709 Date Analyzed: 2008-10-28 Analyzed By: AR
Prep Batch: 45928 QC Preparation: 2008-10-27 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.172	mg/L	0.5

Method Blank (1) QC Batch: 53709

QC Batch: 53709 Date Analyzed: 2008-10-28 Analyzed By: AR
Prep Batch: 45928 QC Preparation: 2008-10-27 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.0320	mg/L	0.5

Method Blank (1) QC Batch: 53710

QC Batch: 53710 Date Analyzed: 2008-10-28 Analyzed By: AR
Prep Batch: 45929 QC Preparation: 2008-10-27 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		1.16	mg/L	0.5

Method Blank (1) QC Batch: 53710

QC Batch: 53710 Date Analyzed: 2008-10-28 Analyzed By: AR
Prep Batch: 45929 QC Preparation: 2008-10-27 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.0320	mg/L	0.5

Method Blank (1) QC Batch: 53827

QC Batch:	53827	Date Analyzed:	2008-10-31	Analyzed By:	AR
Prep Batch:	45981	QC Preparation:	2008-10-29	Prepared By:	AR

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.00	mg/L	10

Method Blank (1) QC Batch: 53920

QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	QC Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	MDL Result	Units	RL
Dissolved Calcium		<0.175	mg/L	1

Method Blank (1) QC Batch: 53920

QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	QC Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	MDL Result	Units	RL
Dissolved Potassium		<0.327	mg/L	1

Method Blank (1) QC Batch: 53920

QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	QC Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	MDL Result	Units	RL
Dissolved Magnesium		<0.148	mg/L	1

Method Blank (1) QC Batch: 53920

QC Batch:	53920	Date Analyzed:	2008-10-31	Analyzed By:	TP
Prep Batch:	46006	QC Preparation:	2008-10-30	Prepared By:	KV

Parameter	Flag	MDL Result	Units	RL
Dissolved Sodium		<0.244	mg/L	1

Duplicates (1) Duplicated Sample: 177258

QC Batch: 53609 | Date Analyzed: 2008-10-24 | Analyzed By: AR
Prep Batch: 45899 | QC Preparation: 2008-10-24 | Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	7.86	7.84	s.u.	1	0	1.5

Duplicates (1) Duplicated Sample: 177258

QC Batch: 53708 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45973 | QC Preparation: 2008-10-28 | Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	175	168	mg/L as CaCo3	1	4	20
Total Alkalinity	175	168	mg/L as CaCo3	1	4	20

Duplicates (1) Duplicated Sample: 177258

QC Batch: 53827 | Date Analyzed: 2008-10-31 | Analyzed By: AR
Prep Batch: 45981 | QC Preparation: 2008-10-29 | Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	743	780	mg/L	1	5	20

Laboratory Control Spike (LCS-1)

QC Batch: 53629 | Date Analyzed: 2008-10-24 | Analyzed By: AG
Prep Batch: 45915 | QC Preparation: 2008-10-24 | Prepared By: AG

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control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.109	mg/L	1	0.100	<0.00110	109	84 - 119.7
Toluene	0.110	mg/L	1	0.100	<0.00100	110	84.9 - 118.2
Ethylbenzene	0.111	mg/L	1	0.100	<0.00100	111	84.4 - 118.6
Xylene	0.320	mg/L	1	0.300	<0.00290	107	84.8 - 117.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.110	mg/L	1	0.100	<0.00110	110	84 - 119.7	1	20
Toluene	0.110	mg/L	1	0.100	<0.00100	110	84.9 - 118.2	0	20
Ethylbenzene	0.110	mg/L	1	0.100	<0.00100	110	84.4 - 118.6	1	20
Xylene	0.318	mg/L	1	0.300	<0.00290	106	84.8 - 117.8	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0954	0.0953	mg/L	1	0.100	95	95	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0965	0.0960	mg/L	1	0.100	96	96	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 53630 | Date Analyzed: 2008-10-25 | Analyzed By: AG
Prep Batch: 45915 | QC Preparation: 2008-10-24 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.103	mg/L	1	0.100	<0.00110	103	84 - 119.7
Toluene	0.103	mg/L	1	0.100	<0.00100	103	84.9 - 118.2
Ethylbenzene	0.104	mg/L	1	0.100	<0.00100	104	84.4 - 118.6
Xylene	0.296	mg/L	1	0.300	<0.00290	99	84.8 - 117.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0971	mg/L	1	0.100	<0.00110	97	84 - 119.7	6	20
Toluene	0.0978	mg/L	1	0.100	<0.00100	98	84.9 - 118.2	5	20
Ethylbenzene	0.0987	mg/L	1	0.100	<0.00100	99	84.4 - 118.6	5	20
Xylene	0.283	mg/L	1	0.300	<0.00290	94	84.8 - 117.8	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0939	0.0913	mg/L	1	0.100	94	91	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0876	0.0869	mg/L	1	0.100	88	87	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45928 | QC Preparation: 2008-10-27 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.9	mg/L	1	12.5	<0.172	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.9	mg/L	1	12.5	<0.172	95	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45928 | QC Preparation: 2008-10-27 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.7	mg/L	1	12.5	<0.0320	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.7	mg/L	1	12.5	<0.0320	102	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45929 | QC Preparation: 2008-10-27 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.9	mg/L	1	12.5	1.16	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.8	mg/L	1	12.5	1.16	94	90 - 110	1	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45929 | QC Preparation: 2008-10-27 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.8	mg/L	1	12.5	<0.0320	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.7	mg/L	1	12.5	<0.0320	102	90 - 110	1	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	52.8	mg/L	1	50.0	<0.175	106	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	45.5	mg/L	1	50.0	<0.175	91	85 - 115	15	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Potassium	50.9	mg/L	1	50.0	<0.327	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Potassium	45.5	mg/L	1	50.0	<0.327	91	85 - 115	11	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Magnesium	52.0	mg/L	1	50.0	<0.148	104	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Magnesium	44.8	mg/L	1	50.0	<0.148	90	85 - 115	15	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium	51.3	mg/L	1	50.0	<0.244	103	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium	46.0	mg/L	1	50.0	<0.244	92	85 - 115	11	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 177178

QC Batch: 53629 | Date Analyzed: 2008-10-24 | Analyzed By: AG
Prep Batch: 45915 | QC Preparation: 2008-10-24 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.26	mg/L	10	1.00	1.1915	107	77.5 - 121.1
Toluene	3.01	mg/L	10	1.00	1.9645	104	78.8 - 119.6
Ethylbenzene	1.82	mg/L	10	1.00	0.8231	100	77.9 - 120.5
Xylene	5.36	mg/L	10	3.00	2.2655	103	78.3 - 119.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.29	mg/L	10	1.00	1.1915	110	77.5 - 121.1	1	20
Toluene	3.03	mg/L	10	1.00	1.9645	106	78.8 - 119.6	1	20
Ethylbenzene	1.86	mg/L	10	1.00	0.8231	104	77.9 - 120.5	2	20
Xylene	5.49	mg/L	10	3.00	2.2655	107	78.3 - 119.4	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.956	0.999	mg/L	10	1	96	100	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.911	0.898	mg/L	10	1	91	90	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 177263

QC Batch: 53630 | Date Analyzed: 2008-10-25 | Analyzed By: AG
Prep Batch: 45915 | QC Preparation: 2008-10-24 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.520	mg/L	5	0.500	<0.00550	104	77.5 - 121.1
Toluene	0.519	mg/L	5	0.500	<0.00500	104	78.8 - 119.6
Ethylbenzene	0.520	mg/L	5	0.500	<0.00500	104	77.9 - 120.5
Xylene	1.48	mg/L	5	1.50	<0.0145	99	78.3 - 119.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.511	mg/L	5	0.500	<0.00550	102	77.5 - 121.1	2	20
Toluene	0.510	mg/L	5	0.500	<0.00500	102	78.8 - 119.6	2	20
Ethylbenzene	0.514	mg/L	5	0.500	<0.00500	103	77.9 - 120.5	1	20
Xylene	1.46	mg/L	5	1.50	<0.0145	97	78.3 - 119.4	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.464	0.459	mg/L	5	0.5	93	92	86.6 - 118.9

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.401	0.404	mg/L	5	0.5	80	81	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 177245

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45928 | QC Preparation: 2008-10-27 | Prepared By: AR

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[1]	1180	mg/L	5	62.5	1126	86	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[2]	1170	mg/L	5	62.5	1126	70	90 - 110	1	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 177245

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45928 | QC Preparation: 2008-10-27 | Prepared By: AR

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	[3]	316	mg/L	5	62.5	246	112	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	[4]	316	mg/L	5	62.5	246	112	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 177263

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45929 | QC Preparation: 2008-10-27 | Prepared By: AR

[1]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[2]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[3]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[4]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[5]	9700	mg/L	50	625	9248	72	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[6]	9770	mg/L	50	625	9248	84	90 - 110	1	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 177263

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR
Prep Batch: 45929 | QC Preparation: 2008-10-27 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	844	mg/L	50	625	207	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	843	mg/L	50	625	207	102	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 177241

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	451	mg/L	10	50.0	404	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	453	mg/L	10	50.0	404	98	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[5]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 177241

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Potassium	58.7	mg/L	1	50.0	15	87	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Potassium	58.4	mg/L	1	50.0	15	87	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 177241

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Magnesium	108	mg/L	1	50.0	62.4	91	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Magnesium	110	mg/L	1	50.0	62.4	95	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 177241

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP
Prep Batch: 46006 | QC Preparation: 2008-10-30 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium	431	mg/L	10	50.0	384	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium	432	mg/L	10	50.0	384	96	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 53609 | Date Analyzed: 2008-10-24 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.04	100	98 - 102	2008-10-24

Standard (CCV-1)

QC Batch: 53609 | Date Analyzed: 2008-10-24 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.01	100	98 - 102	2008-10-24

Standard (ICV-1)

QC Batch: 53629 | Date Analyzed: 2008-10-24 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2008-10-24
Toluene		mg/L	0.100	0.100	100	85 - 115	2008-10-24
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2008-10-24
Xylene		mg/L	0.300	0.292	97	85 - 115	2008-10-24

Standard (CCV-1)

QC Batch: 53629 | Date Analyzed: 2008-10-24 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0993	99	85 - 115	2008-10-24
Toluene		mg/L	0.100	0.0997	100	85 - 115	2008-10-24
Ethylbenzene		mg/L	0.100	0.0997	100	85 - 115	2008-10-24
Xylene		mg/L	0.300	0.284	95	85 - 115	2008-10-24

Standard (ICV-1)

QC Batch: 53630 | Date Analyzed: 2008-10-25 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0996	100	85 - 115	2008-10-25
Toluene		mg/L	0.100	0.0998	100	85 - 115	2008-10-25
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2008-10-25
Xylene		mg/L	0.300	0.286	95	85 - 115	2008-10-25

Standard (CCV-1)

QC Batch: 53630 Date Analyzed: 2008-10-25 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0957	96	85 - 115	2008-10-25
Toluene		mg/L	0.100	0.0968	97	85 - 115	2008-10-25
Ethylbenzene		mg/L	0.100	0.0975	98	85 - 115	2008-10-25
Xylene		mg/L	0.300	0.278	93	85 - 115	2008-10-25

Standard (ICV-1)

QC Batch: 53708 Date Analyzed: 2008-10-28 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2008-10-28
Carbonate Alkalinity		mg/L as CaCo3	0.00	250		0 - 200	2008-10-28
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2008-10-28
Total Alkalinity		mg/L as CaCo3	250	253	101	90 - 110	2008-10-28

Standard (CCV-1)

QC Batch: 53708 Date Analyzed: 2008-10-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2008-10-28
Carbonate Alkalinity		mg/L as CaCo3	0.00	244		0 - 200	2008-10-28
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2008-10-28
Total Alkalinity		mg/L as CaCo3	250	247	99	90 - 110	2008-10-28

Standard (ICV-1)

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-10-28

Standard (ICV-1)

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.7	102	90 - 110	2008-10-28

Standard (CCV-1)

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-10-28

Standard (CCV-1)

QC Batch: 53709 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.7	102	90 - 110	2008-10-28

Standard (ICV-1)

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-10-28

Standard (ICV-1)

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.7	102	90 - 110	2008-10-28

Standard (CCV-1)

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-10-28

Standard (CCV-1)

QC Batch: 53710 | Date Analyzed: 2008-10-28 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.8	102	90 - 110	2008-10-28

Standard (ICV-1)

QC Batch: 53827 | Date Analyzed: 2008-10-31 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	936	94	90 - 110	2008-10-31

Standard (CCV-1)

QC Batch: 53827 | Date Analyzed: 2008-10-31 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	993	99	90 - 110	2008-10-31

Standard (ICV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	51.2	102	90 - 110	2008-10-31

Standard (ICV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Potassium		mg/L	50.0	51.8	104	90 - 110	2008-10-31

Standard (ICV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Magnesium		mg/L	50.0	51.3	103	90 - 110	2008-10-31

Standard (ICV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		mg/L	50.0	50.7	101	90 - 110	2008-10-31

Standard (CCV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	50.5	101	90 - 110	2008-10-31

Standard (CCV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Potassium		mg/L	50.0	47.8	96	90 - 110	2008-10-31

Standard (CCV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Magnesium		mg/L	50.0	50.5	101	90 - 110	2008-10-31

Standard (CCV-1)

QC Batch: 53920 | Date Analyzed: 2008-10-31 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		mg/L	50.0	49.7	99	90 - 110	2008-10-31

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Analysis Request of Chain of Custody Record

PAGE: 1 OF: 1

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: OXY

SITE MANAGER: Tim Reed

PROJECT NO.: 115-6402943

PROJECT NAME: OXY / E.C. Hill, B-D & Fed #7 TB Lea Co.

LAB I.D. NUMBER	DATE 2008	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS				
17724|	10/22		W		X	MW-1 (BD)	7	N	X		X		X																X				
242						MW-2																											
243						MW-3																											
244						MW-4																											
245						MW-5																											
246						MW-6																											
247	10/22		W		X	MW-7 (Fed #7 TB)	7	N	X		X		X																X				

RELINQUISHED BY: (Signature) Date: 10/24/08 Time: 5:50 — RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) RT JT Date: 10/22/08 Time:

RELINQUISHED BY: (Signature) Date: Time: — RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time: — RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Tim Reed — Results by:

RECEIVING LABORATORY: Trace — RECEIVED BY: (Signature)

ADDRESS: CITY: Midland STATE: TX ZIP:

CONTACT: PHONE: DATE: 10-24-08 TIME: 10:15

RUSH Charges Authorized: Yes (No)

SAMPLE CONDITION WHEN RECEIVED: 3.0°C

REMARKS: PH, TDS, SO4, Chloride, Alkalinity - Midland Ca, Hardness, K, Mg, Na - Lubbock

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

22-Dec-08

Tim Reed
Tetra Tech
1910 N. Big Spring St
Midland, TX 79705

Tel: (432) 682-4559
Fax:

Re: BD and Well #7

Work Order : **0812311**

Dear Tim,

ALS Laboratory Group received 8 samples on 12/13/2008 09:25 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Glenda H. Ramos

Lora Terrill
VP Lab Operations

ACCREDITED IN ACCORDANCE WITH nelac
Certificate No: T104704231-08-TX

ALS Group USA, Corp.
Part of the **ALS Laboratory Group**
10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338
Phone: (281) 530-5656 Fax: (281) 530-5887
www.alsglobal.com www.elabi.com
A Campbell Brothers Limited Company

ALS Laboratory Group

Date: 22-Dec-08

Client: Tetra Tech
Project: BD and Well #7
Work Order: **0812311**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0812311-01	MW-1 'BD'	Water		12/10/2008 12:58	12/13/2008 09:25	☐
0812311-02	MW-2	Water		12/10/2008 12:52	12/13/2008 09:25	☐
0812311-03	MW-3	Water		12/10/2008 12:46	12/13/2008 09:25	☐
0812311-04	MW-4	Water		12/10/2008 12:20	12/13/2008 09:25	☐
0812311-05	MW-5	Water		12/10/2008 12:15	12/13/2008 09:25	☐
0812311-06	MW-6	Water		12/10/2008 12:37	12/13/2008 09:25	☐
0812311-07	MW-7 (MW-1 Fed #7)	Water		12/10/2008 12:33	12/13/2008 09:25	☐

ALS Laboratory Group

Date: 22-Dec-08

Client: Tetra Tech
Project: BD and Well #7
Work Order: 0812311

Case Narrative

Batch R71273 Volatiles MS/MSD is an unrelated sample.

ALS Laboratory Group

Date: *22-Dec-08*

Client: Tetra Tech
Project: BD and Well #7
Sample ID: MW-1 'BD'
Collection Date: 12/10/2008 12:58 PM

Work Order: 0812311
Lab ID: 0812311-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES			**SW8260**			Analyst: **PC**
Benzene	U		5.0	µg/L	1	12/16/2008 04:02 PM
Ethylbenzene	U		5.0	µg/L	1	12/16/2008 04:02 PM
Toluene	U		5.0	µg/L	1	12/16/2008 04:02 PM
Xylenes, Total	U		15	µg/L	1	12/16/2008 04:02 PM
Surr: 1,2-Dichloroethane-d4	*97.7*		*70-125*	*%REC*	1	12/16/2008 04:02 PM
Surr: 4-Bromofluorobenzene	*102*		*72-125*	*%REC*	1	12/16/2008 04:02 PM
Surr: Dibromofluoromethane	*99.6*		*71-125*	*%REC*	1	12/16/2008 04:02 PM
Surr: Toluene-d8	*107*		*75-125*	*%REC*	1	12/16/2008 04:02 PM
ANIONS			**E300**			Analyst: **IGF**
Chloride	**373**		**10.0**	**mg/L**	20	12/19/2008 04:40 PM
Surr: Selenate (surr)	*95.1*		*85-115*	*%REC*	20	12/19/2008 04:40 PM

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: *22-Dec-08*

Client: Tetra Tech
Project: BD and Well #7
Work Order: 0812311
Sample ID: MW-2
Lab ID: 0812311-02
Collection Date: 12/10/2008 12:52 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES			**SW8260**			Analyst: **PC**
Benzene	U		5.0	µg/L	1	12/15/2008 06:27 PM
Ethylbenzene	U		5.0	µg/L	1	12/15/2008 06:27 PM
Toluene	U		5.0	µg/L	1	12/15/2008 06:27 PM
Xylenes, Total	U		15	µg/L	1	12/15/2008 06:27 PM
Surr: 1,2-Dichloroethane-d4	*104*		*70-125*	*%REC*	1	12/15/2008 06:27 PM
Surr: 4-Bromofluorobenzene	*88.0*		*72-125*	*%REC*	1	12/15/2008 06:27 PM
Surr: Dibromofluoromethane	*105*		*71-125*	*%REC*	1	12/15/2008 06:27 PM
Surr: Toluene-d8	*95.5*		*75-125*	*%REC*	1	12/15/2008 06:27 PM
ANIONS			**E300**			Analyst: **IGF**
Chloride	**349**		**25.0**	**mg/L**	50	12/19/2008 05:03 PM
Surr: Selenate (surr)	*95.1*		*85-115*	*%REC*	50	12/19/2008 05:03 PM

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: *22-Dec-08*

Client: Tetra Tech
Project: BD and Well #7
Sample ID: MW-3
Collection Date: 12/10/2008 12:46 PM

Work Order: 0812311
Lab ID: 0812311-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES			**SW8260**			Analyst: **PC**
Benzene	U		5.0	µg/L	1	12/15/2008 06:53 PM
Ethylbenzene	U		5.0	µg/L	1	12/15/2008 06:53 PM
Toluene	U		5.0	µg/L	1	12/15/2008 06:53 PM
Xylenes, Total	U		15	µg/L	1	12/15/2008 06:53 PM
Surr: 1,2-Dichloroethane-d4	*94.9*		*70-125*	*%REC*	1	12/15/2008 06:53 PM
Surr: 4-Bromofluorobenzene	*98.9*		*72-125*	*%REC*	1	12/15/2008 06:53 PM
Surr: Dibromofluoromethane	*96.6*		*71-125*	*%REC*	1	12/15/2008 06:53 PM
Surr: Toluene-d8	*106*		*75-125*	*%REC*	1	12/15/2008 06:53 PM
ANIONS			**E300**			Analyst: **IGF**
Chloride	**207**		**10.0**	**mg/L**	20	12/19/2008 07:39 PM
Surr: Selenate (surr)	*94.4*		*85-115*	*%REC*	20	12/19/2008 07:39 PM

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: *22-Dec-08*

Client: Tetra Tech
Project: BD and Well #7
Sample ID: MW-4
Collection Date: 12/10/2008 12:20 PM

Work Order: 0812311
Lab ID: 0812311-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES			**SW8260**			Analyst: **PC**
Benzene	U		5.0	µg/L	1	12/16/2008 12:40 PM
Ethylbenzene	U		5.0	µg/L	1	12/16/2008 12:40 PM
Toluene	U		5.0	µg/L	1	12/16/2008 12:40 PM
Xylenes, Total	U		15	µg/L	1	12/16/2008 12:40 PM
Surr: 1,2-Dichloroethane-d4	*94.2*		*70-125*	*%REC*	1	12/16/2008 12:40 PM
Surr: 4-Bromofluorobenzene	*95.2*		*72-125*	*%REC*	1	12/16/2008 12:40 PM
Surr: Dibromofluoromethane	*96.3*		*71-125*	*%REC*	1	12/16/2008 12:40 PM
Surr: Toluene-d8	*98.3*		*75-125*	*%REC*	1	12/16/2008 12:40 PM
ANIONS			**E300**			Analyst: **IGF**
Chloride	**642**		**10.0**	**mg/L**	20	12/19/2008 05:27 PM
Surr: Selenate (surr)	*94.4*		*85-115*	*%REC*	20	12/19/2008 05:27 PM

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: *22-Dec-08*

Client: Tetra Tech
Project: BD and Well #7
Work Order: 0812311
Sample ID: MW-5
Lab ID: 0812311-05
Collection Date: 12/10/2008 12:15 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES			**SW8260**			Analyst: **PC**
Benzene	U		5.0	µg/L	1	12/16/2008 01:06 PM
Ethylbenzene	U		5.0	µg/L	1	12/16/2008 01:06 PM
Toluene	U		5.0	µg/L	1	12/16/2008 01:06 PM
Xylenes, Total	U		15	µg/L	1	12/16/2008 01:06 PM
Surr: 1,2-Dichloroethane-d4	*95.0*		*70-125*	*%REC*	1	12/16/2008 01:06 PM
Surr: 4-Bromofluorobenzene	*96.7*		*72-125*	*%REC*	1	12/16/2008 01:06 PM
Surr: Dibromofluoromethane	*97.3*		*71-125*	*%REC*	1	12/16/2008 01:06 PM
Surr: Toluene-d8	*104*		*75-125*	*%REC*	1	12/16/2008 01:06 PM
ANIONS			**E300**			Analyst: **IGF**
Chloride	**1,020**		**50.0**	**mg/L**	100	12/19/2008 08:02 PM
Surr: Selenate (surr)	*90.0*		*85-115*	*%REC*	100	12/19/2008 08:02 PM

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: *22-Dec-08*

Client: Tetra Tech
Project: BD and Well #7
Work Order: 0812311
Sample ID: MW-6
Lab ID: 0812311-06
Collection Date: 12/10/2008 12:37 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES			**SW8260**			Analyst: **PC**
Benzene	U		5.0	µg/L	1	12/18/2008 05:15 PM
Ethylbenzene	U		5.0	µg/L	1	12/18/2008 05:15 PM
Toluene	U		5.0	µg/L	1	12/18/2008 05:15 PM
Xylenes, Total	U		15	µg/L	1	12/18/2008 05:15 PM
Surr: 1,2-Dichloroethane-d4	*98.4*		*70-125*	*%REC*	1	12/18/2008 05:15 PM
Surr: 4-Bromofluorobenzene	*84.9*		*72-125*	*%REC*	1	12/18/2008 05:15 PM
Surr: Dibromofluoromethane	*98.8*		*71-125*	*%REC*	1	12/18/2008 05:15 PM
Surr: Toluene-d8	*89.9*		*75-125*	*%REC*	1	12/18/2008 05:15 PM
ANIONS			**E300**			Analyst: **IGF**
Chloride	**90.2**		**5.00**	**mg/L**	10	12/19/2008 08:25 PM
Surr: Selenate (surr)	*92.4*		*85-115*	*%REC*	10	12/19/2008 08:25 PM

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: *22-Dec-08*

Client: Tetra Tech
Project: BD and Well #7
Work Order: 0812311
Sample ID: MW-7 (MW-1 Fed #7)
Lab ID: 0812311-07
Collection Date: 12/10/2008 12:33 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES			**SW8260**			Analyst: **PC**
Benzene	U		5.0	µg/L	1	12/18/2008 05:39 PM
Ethylbenzene	U		5.0	µg/L	1	12/18/2008 05:39 PM
Toluene	U		5.0	µg/L	1	12/18/2008 05:39 PM
Xylenes, Total	U		15	µg/L	1	12/18/2008 05:39 PM
Surr: 1,2-Dichloroethane-d4	*115*		*70-125*	*%REC*	1	12/18/2008 05:39 PM
Surr: 4-Bromofluorobenzene	*97.3*		*72-125*	*%REC*	1	12/18/2008 05:39 PM
Surr: Dibromofluoromethane	*117*		*71-125*	*%REC*	1	12/18/2008 05:39 PM
Surr: Toluene-d8	*103*		*75-125*	*%REC*	1	12/18/2008 05:39 PM
ANIONS			**E300**			Analyst: **IGF**
Chloride	**1,050**		**50.0**	**mg/L**	100	12/19/2008 08:48 PM
Surr: Selenate (surr)	*90.6*		*85-115*	*%REC*	100	12/19/2008 08:48 PM

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

Date: *22-Dec-08*

QC BATCH REPORT

Batch ID: **R71249** Instrument ID **VOA1** Method: **SW8260**

MBLK Sample ID: **VBLKW-121508-R71249** Units: **µg/L** Analysis Date: **12/15/2008 12:33 PM**

Client ID: Run ID: **VOA1_081215A** SeqNo: **1560063** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	*49.53*	5.0	*50*	0	*99.1*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*50.5*	5.0	*50*	0	*101*	*72-125*	0			
Surr: Dibromofluoromethane	*49.71*	5.0	*50*	0	*99.4*	*71-125*	0			
Surr: Toluene-d8	*52.89*	5.0	*50*	0	*106*	*75-125*	0			

LCS Sample ID: **VLCSW-121508-R71249** Units: **µg/L** Analysis Date: **12/15/2008 12:58 PM**

Client ID: Run ID: **VOA1_081215A** SeqNo: **1560064** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.96	5.0	50	0	99.9	73-121	0			
Ethylbenzene	50.59	5.0	50	0	101	80-120	0			
Toluene	50.13	5.0	50	0	100	80-120	0			
Xylenes, Total	147.4	15	150	0	98.3	80-120	0			
Surr: 1,2-Dichloroethane-d4	*50.14*	5.0	*50*	0	*100*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*50.71*	5.0	*50*	0	*101*	*72-125*	0			
Surr: Dibromofluoromethane	*50.44*	5.0	*50*	0	*101*	*71-125*	0			
Surr: Toluene-d8	*50.74*	5.0	*50*	0	*101*	*75-125*	0			

MS Sample ID: **0812245-04AMS** Units: **µg/L** Analysis Date: **12/15/2008 03:05 PM**

Client ID: Run ID: **VOA1_081215A** SeqNo: **1560066** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.14	5.0	50	0	100	73-121	0			
Ethylbenzene	47.63	5.0	50	0	95.3	80-120	0			
Toluene	47.31	5.0	50	0	94.6	80-120	0			
Xylenes, Total	141.3	15	150	0	94.2	80-120	0			
Surr: 1,2-Dichloroethane-d4	*48.15*	5.0	*50*	0	*96.3*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*49.8*	5.0	*50*	0	*99.6*	*72-125*	0			
Surr: Dibromofluoromethane	*49.14*	5.0	*50*	0	*98.3*	*71-125*	0			
Surr: Toluene-d8	*50.24*	5.0	*50*	0	*100*	*75-125*	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71273** Instrument ID **VOA2** Method: **SW8260**

MBLK Sample ID: **VBLKW-121508-R71273** Units: **µg/L** Analysis Date: **12/15/2008 11:57 AM**
Client ID: Run ID: **VOA2_081215A** SeqNo: **1560456** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	*47.9*	5.0	*50*	0	*95.8*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*43.38*	5.0	*50*	0	*86.8*	*72-125*	0			
Surr: Dibromofluoromethane	*48.37*	5.0	*50*	0	*96.7*	*71-125*	0			
Surr: Toluene-d8	*45.65*	5.0	*50*	0	*91.3*	*75-125*	0			

LCS Sample ID: **VLCSW-121508-R71273** Units: **µg/L** Analysis Date: **12/15/2008 10:44 AM**
Client ID: Run ID: **VOA2_081215A** SeqNo: **1560455** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.55	5.0	50	0	91.1	73-121	0			
Ethylbenzene	46.4	5.0	50	0	92.8	80-120	0			
Toluene	43.97	5.0	50	0	87.9	80-120	0			
Xylenes, Total	140.2	15	150	0	93.5	80-120	0			
Surr: 1,2-Dichloroethane-d4	*47.57*	5.0	*50*	0	*95.1*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*47.36*	5.0	*50*	0	*94.7*	*72-125*	0			
Surr: Dibromofluoromethane	*49.22*	5.0	*50*	0	*98.4*	*71-125*	0			
Surr: Toluene-d8	*47.04*	5.0	*50*	0	*94.1*	*75-125*	0			

MS Sample ID: **0812309-08AMS** Units: **µg/L** Analysis Date: **12/15/2008 02:47 PM**
Client ID: Run ID: **VOA2_081215A** SeqNo: **1560462** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1518	50	500	1302	43.2	73-121	0			S
Ethylbenzene	1367	50	500	1035	66.4	80-120	0			S
Toluene	605.1	50	500	210.9	78.8	80-120	0			S
Xylenes, Total	1946	150	1500	702.2	82.9	80-120	0			
Surr: 1,2-Dichloroethane-d4	*332.1*	50	*500*	0	*66.4*	*70-125*	0			*S*
Surr: 4-Bromofluorobenzene	*417*	50	*500*	0	*83.4*	*72-125*	0			
Surr: Dibromofluoromethane	*426.8*	50	*500*	0	*85.4*	*71-125*	0			
Surr: Toluene-d8	*455.5*	50	*500*	0	*91.1*	*75-125*	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71273** Instrument ID **VOA2** Method: **SW8260**

MBLK Sample ID: **VBLKW-121508-R71273** Units: **µg/L** Analysis Date: **12/15/2008 11:57 AM**

Client ID: Run ID: **VOA2_081215A** SeqNo: **1560456** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	*47.9*	5.0	*50*	0	*95.8*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*43.38*	5.0	*50*	0	*86.8*	*72-125*	0			
Surr: Dibromofluoromethane	*48.37*	5.0	*50*	0	*96.7*	*71-125*	0			
Surr: Toluene-d8	*45.65*	5.0	*50*	0	*91.3*	*75-125*	0			

LCS Sample ID: **VLCSW-121508-R71273** Units: **µg/L** Analysis Date: **12/15/2008 10:44 AM**

Client ID: Run ID: **VOA2_081215A** SeqNo: **1560455** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.55	5.0	50	0	91.1	73-121	0			
Ethylbenzene	46.4	5.0	50	0	92.8	80-120	0			
Toluene	43.97	5.0	50	0	87.9	80-120	0			
Xylenes, Total	140.2	15	150	0	93.5	80-120	0			
Surr: 1,2-Dichloroethane-d4	*47.57*	5.0	*50*	0	*95.1*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*47.36*	5.0	*50*	0	*94.7*	*72-125*	0			
Surr: Dibromofluoromethane	*49.22*	5.0	*50*	0	*98.4*	*71-125*	0			
Surr: Toluene-d8	*47.04*	5.0	*50*	0	*94.1*	*75-125*	0			

MS Sample ID: **0812309-08AMS** Units: **µg/L** Analysis Date: **12/15/2008 02:47 PM**

Client ID: Run ID: **VOA2_081215A** SeqNo: **1560462** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1518	50	500	1302	43.2	73-121	0			S
Ethylbenzene	1367	50	500	1035	66.4	80-120	0			S
Toluene	605.1	50	500	210.9	78.8	80-120	0			S
Xylenes, Total	1946	150	1500	702.2	82.9	80-120	0			
Surr: 1,2-Dichloroethane-d4	*332.1*	50	*500*	0	*66.4*	*70-125*	0			*S*
Surr: 4-Bromofluorobenzene	*417*	50	*500*	0	*83.4*	*72-125*	0			
Surr: Dibromofluoromethane	*426.8*	50	*500*	0	*85.4*	*71-125*	0			
Surr: Toluene-d8	*455.5*	50	*500*	0	*91.1*	*75-125*	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71249** Instrument ID **VOA1** Method: **SW8260**

MSD Sample ID: **0812245-04AMSD** Units: **µg/L** Analysis Date: **12/15/2008 03:30 PM**

Client ID: Run ID: **VOA1_081215A** SeqNo: **1560067** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.09	5.0	50	0	100	73-121	50.14	0.115	20	
Ethylbenzene	51.39	5.0	50	0	103	80-120	47.63	7.59	20	
Toluene	50.54	5.0	50	0	101	80-120	47.31	6.59	20	
Xylenes, Total	145.6	15	150	0	97.1	80-120	141.3	3.02	20	
Surr: 1,2-Dichloroethane-d4	*46.98*	5.0	*50*	0	*94*	*70-125*	48.15	*2.46*	*20*	
Surr: 4-Bromofluorobenzene	*52.12*	5.0	*50*	0	*104*	*72-125*	49.8	*4.57*	*20*	
Surr: Dibromofluoromethane	*49.18*	5.0	*50*	0	*98.4*	*71-125*	49.14	*0.0693*	*20*	
Surr: Toluene-d8	*54.88*	5.0	*50*	0	*110*	*75-125*	50.24	*8.83*	*20*	

The following samples were analyzed in this batch: 0812311-03A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71249** Instrument ID **VOA1** Method: **SW8260**

MSD Sample ID: **0812245-04AMSD** Units: **µg/L** Analysis Date: **12/15/2008 03:30 PM**

Client ID: Run ID: **VOA1_081215A** SeqNo: **1560067** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.09	5.0	50	0	100	73-121	50.14	0.115	20	
Ethylbenzene	51.39	5.0	50	0	103	80-120	47.63	7.59	20	
Toluene	50.54	5.0	50	0	101	80-120	47.31	6.59	20	
Xylenes, Total	145.6	15	150	0	97.1	80-120	141.3	3.02	20	
Surr: 1,2-Dichloroethane-d4	*46.98*	5.0	*50*	0	*94*	*70-125*	48.15	*2.46*	*20*	
Surr: 4-Bromofluorobenzene	*52.12*	5.0	*50*	0	*104*	*72-125*	49.8	*4.57*	*20*	
Surr: Dibromofluoromethane	*49.18*	5.0	*50*	0	*98.4*	*71-125*	49.14	*0.0693*	*20*	
Surr: Toluene-d8	*54.88*	5.0	*50*	0	*110*	*75-125*	50.24	*8.83*	*20*	

The following samples were analyzed in this batch: 0812311-03A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71249** Instrument ID **VOA1** Method: **SW8260**

MSD Sample ID: **0812245-04AMSD** Units: **µg/L** Analysis Date: **12/15/2008 03:30 PM**

Client ID: Run ID: **VOA1_081215A** SeqNo: **1560067** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.09	5.0	50	0	100	73-121	50.14	0.115	20	
Ethylbenzene	51.39	5.0	50	0	103	80-120	47.63	7.59	20	
Toluene	50.54	5.0	50	0	101	80-120	47.31	6.59	20	
Xylenes, Total	145.6	15	150	0	97.1	80-120	141.3	3.02	20	
Surr: 1,2-Dichloroethane-d4	*46.98*	5.0	*50*	0	*94*	*70-125*	48.15	*2.46*	*20*	
Surr: 4-Bromofluorobenzene	*52.12*	5.0	*50*	0	*104*	*72-125*	49.8	*4.57*	*20*	
Surr: Dibromofluoromethane	*49.18*	5.0	*50*	0	*98.4*	*71-125*	49.14	*0.0693*	*20*	
Surr: Toluene-d8	*54.88*	5.0	*50*	0	*110*	*75-125*	50.24	*8.83*	*20*	

The following samples were analyzed in this batch: 0812311-03A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71273** Instrument ID **VOA2** Method: **SW8260**

MBLK Sample ID: **VBLKW-121508-R71273** Units: **µg/L** Analysis Date: **12/15/2008 11:57 AM**
Client ID: Run ID: **VOA2_081215A** SeqNo: **1560456** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	*47.9*	5.0	*50*	0	*95.8*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*43.38*	5.0	*50*	0	*86.8*	*72-125*	0			
Surr: Dibromofluoromethane	*48.37*	5.0	*50*	0	*96.7*	*71-125*	0			
Surr: Toluene-d8	*45.65*	5.0	*50*	0	*91.3*	*75-125*	0			

LCS Sample ID: **VLCSW-121508-R71273** Units: **µg/L** Analysis Date: **12/15/2008 10:44 AM**
Client ID: Run ID: **VOA2_081215A** SeqNo: **1560455** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.55	5.0	50	0	91.1	73-121	0			
Ethylbenzene	46.4	5.0	50	0	92.8	80-120	0			
Toluene	43.97	5.0	50	0	87.9	80-120	0			
Xylenes, Total	140.2	15	150	0	93.5	80-120	0			
Surr: 1,2-Dichloroethane-d4	*47.57*	5.0	*50*	0	*95.1*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*47.36*	5.0	*50*	0	*94.7*	*72-125*	0			
Surr: Dibromofluoromethane	*49.22*	5.0	*50*	0	*98.4*	*71-125*	0			
Surr: Toluene-d8	*47.04*	5.0	*50*	0	*94.1*	*75-125*	0			

MS Sample ID: **0812309-08AMS** Units: **µg/L** Analysis Date: **12/15/2008 02:47 PM**
Client ID: Run ID: **VOA2_081215A** SeqNo: **1560462** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1518	50	500	1302	43.2	73-121	0			S
Ethylbenzene	1367	50	500	1035	66.4	80-120	0			S
Toluene	605.1	50	500	210.9	78.8	80-120	0			S
Xylenes, Total	1946	150	1500	702.2	82.9	80-120	0			
Surr: 1,2-Dichloroethane-d4	*332.1*	50	*500*	0	*66.4*	*70-125*	0			*S*
Surr: 4-Bromofluorobenzene	*417*	50	*500*	0	*83.4*	*72-125*	0			
Surr: Dibromofluoromethane	*426.8*	50	*500*	0	*85.4*	*71-125*	0			
Surr: Toluene-d8	*455.5*	50	*500*	0	*91.1*	*75-125*	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71273** Instrument ID **VOA2** Method: **SW8260**

MSD Sample ID: **0812309-08AMSD** Units: **µg/L** Analysis Date: **12/15/2008 03:11 PM**

Client ID: Run ID: **VOA2_081215A** SeqNo: **1560463** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1650	50	500	1302	69.5	73-121	1518	8.32	20	S
Ethylbenzene	1432	50	500	1035	79.5	80-120	1367	4.7	20	S
Toluene	633.8	50	500	210.9	84.6	80-120	605.1	4.64	20	
Xylenes, Total	2024	150	1500	702.2	88.1	80-120	1946	3.94	20	
Surr: 1,2-Dichloroethane-d4	*496.9*	50	*500*	0	*99.4*	*70-125*	332.1	*39.8*	*20*	*R*
Surr: 4-Bromofluorobenzene	*498.6*	50	*500*	0	*99.7*	*72-125*	417	*17.8*	*20*	
Surr: Dibromofluoromethane	*520.9*	50	*500*	0	*104*	*71-125*	426.8	*19.9*	*20*	
Surr: Toluene-d8	*494.9*	50	*500*	0	*99*	*75-125*	455.5	*8.31*	*20*	

The following samples were analyzed in this batch: 0812311-02A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71321** Instrument ID **VOA1** Method: **SW8260**

MBLK Sample ID: **VBLKW-121608-R71321** Units: **µg/L** Analysis Date: **12/16/2008 11:50 AM**
Client ID: Run ID: **VOA1_081216A** SeqNo: **1561600** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	*47.19*	5.0	*50*	0	*94.4*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*48.75*	5.0	*50*	0	*97.5*	*72-125*	0			
Surr: Dibromofluoromethane	*48.47*	5.0	*50*	0	*96.9*	*71-125*	0			
Surr: Toluene-d8	*51.19*	5.0	*50*	0	*102*	*75-125*	0			

LCS Sample ID: **VLCSW-121608-R71321** Units: **µg/L** Analysis Date: **12/16/2008 11:00 AM**
Client ID: Run ID: **VOA1_081216A** SeqNo: **1561599** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.86	5.0	50	0	95.7	73-121	0			
Ethylbenzene	49.16	5.0	50	0	98.3	80-120	0			
Toluene	48.24	5.0	50	0	96.5	80-120	0			
Xylenes, Total	146.8	15	150	0	97.8	80-120	0			
Surr: 1,2-Dichloroethane-d4	*49.11*	5.0	*50*	0	*98.2*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*49.1*	5.0	*50*	0	*98.2*	*72-125*	0			
Surr: Dibromofluoromethane	*49*	5.0	*50*	0	*98*	*71-125*	0			
Surr: Toluene-d8	*50.23*	5.0	*50*	0	*100*	*75-125*	0			

MS Sample ID: **0812311-05AMS** Units: **µg/L** Analysis Date: **12/16/2008 03:11 PM**
Client ID: **MW-5** Run ID: **VOA1_081216A** SeqNo: **1561602** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.92	5.0	50	0	95.8	73-121	0			
Ethylbenzene	49.49	5.0	50	0	99	80-120	0			
Toluene	50.41	5.0	50	0	101	80-120	0			
Xylenes, Total	152.5	15	150	0	102	80-120	0			
Surr: 1,2-Dichloroethane-d4	*48.89*	5.0	*50*	0	*97.8*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*51.88*	5.0	*50*	0	*104*	*72-125*	0			
Surr: Dibromofluoromethane	*49.76*	5.0	*50*	0	*99.5*	*71-125*	0			
Surr: Toluene-d8	*51.08*	5.0	*50*	0	*102*	*75-125*	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71321** Instrument ID **VOA1** Method: **SW8260**

MSD Sample ID: **0812311-05AMSD** Units: **µg/L** Analysis Date: **12/16/2008 03:36 PM**

Client ID: **MW-5** Run ID: **VOA1_081216A** SeqNo: **1561603** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.23	5.0	50	0	100	73-121	47.92	4.71	20	
Ethylbenzene	48.14	5.0	50	0	96.3	80-120	49.49	2.76	20	
Toluene	49.23	5.0	50	0	98.5	80-120	50.41	2.37	20	
Xylenes, Total	139.3	15	150	0	92.9	80-120	152.5	9.07	20	
Surr: 1,2-Dichloroethane-d4	*50.8*	5.0	*50*	0	*102*	*70-125*	48.89	*3.81*	*20*	
Surr: 4-Bromofluorobenzene	*50.11*	5.0	*50*	0	*100*	*72-125*	51.88	*3.46*	*20*	
Surr: Dibromofluoromethane	*52.19*	5.0	*50*	0	*104*	*71-125*	49.76	*4.77*	*20*	
Surr: Toluene-d8	*51.59*	5.0	*50*	0	*103*	*75-125*	51.08	*0.991*	*20*	

The following samples were analyzed in this batch: 0812311-01A 0812311-04A 0812311-05A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71400** Instrument ID **VOA2** Method: **SW8260**

MBLK Sample ID: **VBLKW-121808-R71400** Units: **µg/L** Analysis Date: **12/18/2008 11:10 AM**

Client ID: Run ID: **VOA2_081218A** SeqNo: **1563052** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	*46.83*	5.0	*50*	0	*93.7*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*46.97*	5.0	*50*	0	*93.9*	*72-125*	0			
Surr: Dibromofluoromethane	*49.52*	5.0	*50*	0	*99*	*71-125*	0			
Surr: Toluene-d8	*49.7*	5.0	*50*	0	*99.4*	*75-125*	0			

MBLK Sample ID: **MBLKV1-120808-R71400** Units: **µg/L** Analysis Date: **12/18/2008 07:16 PM**

Client ID: Run ID: **VOA2_081218A** SeqNo: **1563882** Prep Date: **12/15/2008** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	100								
Ethylbenzene	U	100								
Toluene	U	100								
Xylenes, Total	U	300								
Surr: 1,2-Dichloroethane-d4	*1040*	100	*1000*	0	*104*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*863.7*	100	*1000*	0	*86.4*	*72-125*	0			
Surr: Dibromofluoromethane	*1039*	100	*1000*	0	*104*	*71-125*	0			
Surr: Toluene-d8	*934.4*	100	*1000*	0	*93.4*	*75-125*	0			

LCS Sample ID: **VLCSW-121808-R71400** Units: **µg/L** Analysis Date: **12/18/2008 11:34 AM**

Client ID: Run ID: **VOA2_081218A** SeqNo: **1563053** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.59	5.0	50	0	89.2	73-121	0			
Ethylbenzene	45.07	5.0	50	0	90.1	80-120	0			
Toluene	43.58	5.0	50	0	87.2	80-120	0			
Xylenes, Total	135.7	15	150	0	90.4	80-120	0			
Surr: 1,2-Dichloroethane-d4	*41.76*	5.0	*50*	0	*83.5*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*45.67*	5.0	*50*	0	*91.3*	*72-125*	0			
Surr: Dibromofluoromethane	*45.26*	5.0	*50*	0	*90.5*	*71-125*	0			
Surr: Toluene-d8	*45.83*	5.0	*50*	0	*91.7*	*75-125*	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71400** Instrument ID **VOA2** Method: **SW8260**

MS Sample ID: **0812295-05AMS** Units: **µg/L** Analysis Date: **12/18/2008 01:11 PM**

Client ID: Run ID: **VOA2_081218A** SeqNo: **1563055** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.45	5.0	50	0	98.9	73-121	0			
Ethylbenzene	48.82	5.0	50	0	97.6	80-120	0			
Toluene	48.11	5.0	50	0	96.2	80-120	0			
Xylenes, Total	148.4	15	150	0	98.9	80-120	0			
Surr: 1,2-Dichloroethane-d4	*46.17*	5.0	*50*	0	*92.3*	*70-125*	0			
Surr: 4-Bromofluorobenzene	*48.72*	5.0	*50*	0	*97.4*	*72-125*	0			
Surr: Dibromofluoromethane	*49.04*	5.0	*50*	0	*98.1*	*71-125*	0			
Surr: Toluene-d8	*48.44*	5.0	*50*	0	*96.9*	*75-125*	0			

MSD Sample ID: **0812295-05AMSD** Units: **µg/L** Analysis Date: **12/18/2008 01:36 PM**

Client ID: Run ID: **VOA2_081218A** SeqNo: **1563056** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.59	5.0	50	0	93.2	73-121	49.45	5.96	20	
Ethylbenzene	47.97	5.0	50	0	95.9	80-120	48.82	1.75	20	
Toluene	45.92	5.0	50	0	91.8	80-120	48.11	4.67	20	
Xylenes, Total	143.7	15	150	0	95.8	80-120	148.4	3.22	20	
Surr: 1,2-Dichloroethane-d4	*43.7*	5.0	*50*	0	*87.4*	*70-125*	46.17	*5.49*	*20*	
Surr: 4-Bromofluorobenzene	*46.98*	5.0	*50*	0	*94*	*72-125*	48.72	*3.65*	*20*	
Surr: Dibromofluoromethane	*46.82*	5.0	*50*	0	*93.6*	*71-125*	49.04	*4.62*	*20*	
Surr: Toluene-d8	*46.12*	5.0	*50*	0	*92.2*	*75-125*	48.44	*4.91*	*20*	

The following samples were analyzed in this batch: 0812311-06A 0812311-07A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71470** Instrument ID **ICS3000** Method: **E300**

MBLK Sample ID: **WBLKW1-121908-R71470** Units: **mg/L** Analysis Date: **12/19/2008 10:26 AM**
Client ID: Run ID: **ICS3000_081219A** SeqNo: **1564298** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Surr: Selenate (surr)	*4.782*	0.10	*5*	0	*95.6*	*85-115*	0			

LCS Sample ID: **WLCSW2-121908-R71470** Units: **mg/L** Analysis Date: **12/19/2008 10:49 AM**
Client ID: Run ID: **ICS3000_081219A** SeqNo: **1564299** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.66	0.50	20	0	98.3	90-110	0			
Surr: Selenate (surr)	*4.851*	0.10	*5*	0	*97*	*85-115*	0			

MSD Sample ID: **0812310-03BMS** Units: **mg/L** Analysis Date: **12/19/2008 04:16 PM**
Client ID: Run ID: **ICS3000_081219A** SeqNo: **1564313** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	298.5	10	200	107.7	95.4	80-120	0			
Surr: Selenate (surr)	*93.83*	2.0	*100*	0	*93.8*	*85-115*	0			

DUP Sample ID: **0812310-03BDUP** Units: **mg/L** Analysis Date: **12/19/2008 03:53 PM**
Client ID: Run ID: **ICS3000_081219A** SeqNo: **1564312** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.8	10	0	0	0	0-0	107.7	0.143	20	
Surr: Selenate (surr)	*95.82*	2.0	*100*	0	*95.8*	*85-115*	95.48	*0.358*	*20*	

The following samples were analyzed in this batch: 0812311-01B 0812311-02B 0812311-04B

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

Client: Tetra Tech
Work Order: 0812311
Project: BD and Well #7

QC BATCH REPORT

Batch ID: **R71472** Instrument ID **ICS3000** Method: **E300**

MBLK Sample ID: **WBLKW2-121908-R71472** Units: **mg/L** Analysis Date: **12/19/2008 10:11 AM**
Client ID: Run ID: **ICS3000_081219C** SeqNo: **1564357** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Surr: Selenate (surr)	*4.753*	0.10	*5*	0	*95.1*	*85-115*	0			

LCS Sample ID: **WLCSW2-121908-R71472** Units: **mg/L** Analysis Date: **12/19/2008 10:34 AM**
Client ID: Run ID: **ICS3000_081219C** SeqNo: **1564358** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.7	0.50	20	0	98.5	90-110	0			
Surr: Selenate (surr)	*4.753*	0.10	*5*	0	*95.1*	*85-115*	0			

MS Sample ID: **0812349-28BMS** Units: **mg/L** Analysis Date: **12/19/2008 07:16 PM**
Client ID: Run ID: **ICS3000_081219C** SeqNo: **1564371** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.13	0.50	10	0.615	95.2	80-120	0			
Surr: Selenate (surr)	*4.656*	0.10	*5*	0	*93.1*	*85-115*	0			

DUP Sample ID: **0812349-28BDUP** Units: **mg/L** Analysis Date: **12/19/2008 06:53 PM**
Client ID: Run ID: **ICS3000_081219C** SeqNo: **1564370** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.488	0.50	0	0	0	0-0	0.615	0	20	J
Surr: Selenate (surr)	*4.597*	0.10	*5*	0	*91.9*	*85-115*	4.613	*0.347*	*20*	

The following samples were analyzed in this batch: 0812311-03B 0812311-05B 0812311-06B 0812311-07B

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

☑ **ALS Laboratory Group**
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Chain of Custody Form

Page 1 of 1

☐ **ALS Laboratory Group**
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 0810231

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	BD and Well #7	A	VOC (8260) BTEX
Work Order		Project Number	115-140 2943	B	Anions (300) Chloride
Company Name	Tetra Tech	Bill To Company	CRA	C	
Send Report To	Tim Reed	Invoice Attn	Darla Stewart	D	
Address	1910 N. Big Spring St	Address	2055 Niagara Falls Blvd Suite #3	E F	
City/State/Zip	Midland, TX 79705	City/State/Zip	Niagara Falls, NY 14304	G	
Phone	(432) 682-4559	Phone	(716) 297-6150	H	
Fax		Fax		J	
e-Mail Address	tim.reed@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1 'BD'	12/10/08	1258	W	HCL	4	X	X									
2	MW-2		1252														
3	MW-3		1246														
4	MW-4		1220														
5	MW-5		1215														
6	MW-6		1237														
7	MW-7 (MW-1 Fed #7)		1233														
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Johnny Robert | Shipment Method: Fed-Ex

Required Turnaround Time: (Check Box) ☐ Other ☑ Std 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Robert Hallmark	12-12-08	1410	
Relinquished by:	Date:	Time:	Received by (Laboratory):
	12-13-08	07:25	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 10 Work Day TAT.

Cooler ID | Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

ALS Laboratory Group

Sample Receipt Checklist

Client Name: TETRA TECH MIDLAND

Date/Time Received: 12/13/2008 09:25

Work Order Number 0812311

Received by: ECD

Checklist completed by Signature Date 12/13/08

Reviewed by Initials LT Date 12/15/08

Matrix: WATER

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ✓	No	Not Present
Custody seals intact on shipping container/cooler?	Yes ✓	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present ✓
Chain of custody present?	Yes ✓	No	
Chain of custody signed when relinquished and received?	Yes ✓	No	
Chain of custody agrees with sample labels?	Yes ✓	No	
Samples in proper container/bottle?	Yes ✓	No	
Sample containers intact?	Yes ✓	No	
Sufficient sample volume for indicated test?	Yes ✓	No	
All samples received within holding time?	Yes ✓	No	
Container/Temp Blank temperature in compliance?	Yes ✓	No	
Temperature(s)/Thermometer(s):	1.0	004	
Cooler(s)/Kit(s):	166		
Water - VOA vials have zero headspace?	Yes ✓	No	No VOA vials submitted
Water - pH acceptable upon receipt?	Yes ✓	No	N/A

Adjusted? Checked by

Login Notes: Trip blank logged in without analysis!

Client contacted: Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

171

500 **FedEx** Express *US Airbill*

FedEx Tracking Number 8659 1157 8610

Form ID No. 0215 — Recipient's Copy

SDA11

1 From This portion can be removed for Recipient's records.

Date 12-12-06 FedEx Tracking Number 865911578610

Sender's Name Ted + Mauy Phone 432 557-6072

Company Tele Tech

Address 1510 W Big Spring Dept./Floor/Suite/Room

City Midland State Tx ZIP 79705

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

2 Your Internal Billing Reference

3 To

Recipient's Name Phone 281 530-5656

Company ALS LABORATORY GROUP

Recipient's Address 10450 STANCLIFF RD STE 210

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City HOUSTON State TX ZIP 77099-4338

0382813849

8659 1157 8610

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [X] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ___ x ___ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages 1 Total Weight [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

519

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ALS Laboratory
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Group	CUSTODY SEAL	Seal Broken By: JMC
	Date: 12-12-08 Time: 14.20	Date:
	Name: [illegible]	12/13/08
	Company: Tetra Tech	

Gulf Coast ACCUTEST. Laboratories

IT'S ALL IN THE CHEMISTRY

03/25/09

Technical Report for

CRA West Chester

GHSI-PXP Quarterly Groundwater Sampling

GSHI PXP Hill, E.C. Federal #7 TB / 55627DM (ENV749A008)

Accutest Job Number: T26039

Sampling Date: 03/11/09

Report to:

Conestoga Rover & Associates
9033 Meridian Way
West Chester, OH 45069
abown@craworld.com

ATTN: Angela Bown

Total number of pages in report: 41

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: William Reeves 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

Test results relate only to samples analyzed.

Note: This report is password protected to disallow document modification or assembly.
To obtain a version that can be unlocked, contact your client service representative.

Sections: 1 2 3 4 5 6

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Sample Results 4
2.1: T26039-1: MW-1 (BD) 5
2.2: T26039-2: MW-1 (WELL #7) 7
2.3: T26039-3: MW-2 9
2.4: T26039-4: MW-3 11
2.5: T26039-5: MW-4 13
2.6: T26039-6: MW-5 15
2.7: T26039-7: MW-6 17
2.8: T26039-8: DUPLICATE 19
2.9: T26039-9: TRIP BLANK 21
Section 3: Misc. Forms 23
Chain of Custody 23
Section 4: GC/MS Volatiles - QC Data Summaries **26**
4.1: Method Blank Summary 27
4.2: Blank Spike Summary 30
4.3: Blank Spike/Blank Spike Duplicate Summary 32
4.4: Matrix Spike/Matrix Spike Duplicate Summary 33
Section 5: Misc. Forms (Accutest New Jersey) 35
5.1: Chain of Custody 36
Section 6: General Chemistry - QC Data (Accutest New Jersey) 38
6.1: Method Blank and Spike Results Summary 39
6.2: Duplicate Results Summary 40
6.3: Matrix Spike Results Summary 41

Accutest Laboratories

Sample Summary

CRA West Chester

Job No: T26039

GHSI-PXP Quarterly Groundwater Sampling
Project No: GSHI PXP Hill, E.C. Federal #7 TB / 55627DM (ENV749A008)

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
T26039-1	03/11/09	13:40 JT	03/14/09	AQ	Ground Water	MW-1 (BD)
T26039-2	03/11/09	13:20 JT	03/14/09	AQ	Ground Water	MW-1 (WELL #7)
T26039-3	03/11/09	13:35 JT	03/14/09	AQ	Ground Water	MW-2
T26039-4	03/11/09	13:50 JT	03/14/09	AQ	Ground Water	MW-3
T26039-5	03/11/09	13:00 JT	03/14/09	AQ	Ground Water	MW-4
T26039-6	03/11/09	13:10 JT	03/14/09	AQ	Ground Water	MW-5
T26039-7	03/11/09	13:25 JT	03/14/09	AQ	Ground Water	MW-6
T26039-8	03/11/09	00:00 JT	03/14/09	AQ	Ground Water	DUPLICATE
T26039-9	03/11/09	10:30 JT	03/14/09	AQ	Trip Blank Water	TRIP BLANK

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1 (BD)		
Lab Sample ID:	T26039-1	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015027.D	1	03/22/09	RR	n/a	n/a	VF3330
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	108%		87-119%
460-00-4	4-Bromofluorobenzene	121%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1 (BD)		
Lab Sample ID:	T26039-1	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	922	10	0.59	mg/l	5	03/23/09 13:56	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1 (WELL #7)		
Lab Sample ID:	T26039-2	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015028.D	1	03/22/09	RR	n/a	n/a	VF3330
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	109%		87-119%
460-00-4	4-Bromofluorobenzene	122%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1 (WELL #7)		
Lab Sample ID:	T26039-2	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	1360	16	0.94	mg/l	8	03/23/09 14:18	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T26039-3	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015029.D	1	03/22/09	RR	n/a	n/a	VF3330
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	121%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T26039-3	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	140	2.0	0.12	mg/l	1	03/20/09 22:57	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	T26039-4	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015094.D	1	03/24/09	RR	n/a	n/a	VF3334
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	0.52	1.0	0.48	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	125%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	T26039-4	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	229	2.0	0.12	mg/l	1	03/20/09 23:20	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T26039-5	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015039.D	1	03/22/09	RR	n/a	n/a	VF3331
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	109%		87-119%
460-00-4	4-Bromofluorobenzene	121%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T26039-5	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	573	6.0	0.35	mg/l	3	03/23/09 14:41	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T26039-6	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015042.D	1	03/22/09	RR	n/a	n/a	VF3331
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	108%		87-119%
460-00-4	4-Bromofluorobenzene	118%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T26039-6	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	879	10	0.59	mg/l	5	03/23/09 15:03	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T26039-7	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015043.D	1	03/22/09	RR	n/a	n/a	VF3331
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	110%		87-119%
460-00-4	4-Bromofluorobenzene	121%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T26039-7	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	92.7	2.0	0.12	mg/l	1	03/21/09 01:12	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T26039-8	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015044.D	1	03/22/09	RR	n/a	n/a	VF3331
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	108%		87-119%
460-00-4	4-Bromofluorobenzene	119%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUPLICATE		
Lab Sample ID:	T26039-8	**Date Sampled:**	03/11/09
Matrix:	AQ - Ground Water	**Date Received:**	03/14/09
		Percent Solids:	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride [a]	930	10	0.59	mg/l	5	03/24/09 10:46	ANJ	EPA 300/SW846 9056

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T26039-9	**Date Sampled:**	03/11/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GHSI-PXP Quarterly Groundwater Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F015037.D	1	03/22/09	RR	n/a	n/a	VF3331
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.46	ug/l	
108-88-3	Toluene	ND	1.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	106%		75-121%
2037-26-5	Toluene-D8	108%		87-119%
460-00-4	4-Bromofluorobenzene	120%		80-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page ___ of

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T26039

Client / Reporting Information			Project Information		
Company Name: CRA			Project Name / No.: GSHI PXP Hill, E.C. Federal #7 TB / 55627DM (ENV749A006)		
Project Contact: Angela Bown	E-Mail: abown@craworld.com		Bill to: GSHI	Invoice Attn.: Jen Devonshire	
Address: 9033 Meridian Way			Address: 2055 Niagra Falls Blvd., Suite 3		
City: West Chester	State: OH	Zip: 45069	City: Niagra Falls	State: NY	Zip: 14304
Phone No.: 513-942-4750	Fax No.:		Phone No.:	Fax No.:	
Samplers's Name:			Client Purchase Order #:		

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Wastewater; SO - Soil; SL - Sludge; OI - Oil; LIQ - Liquid; SOL - Other Solid

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	[illegible]	[illegible]	[illegible]	[illegible]	NONE	BTEX (8260b)	Chloride	LAB USE ONLY
1	MW-1 (BD)	3/11/09	1340	GW	4	3							1	X	X	
2	MW-1 (Well #7)		1320		4	3							1	X	X	
3	MW-2		1335		4	3							1	X	X	
4	MW-3		1350		4	3							1	X	X	
5	MW-4		1300		4	3							1	X	X	
6	MW-5		1310		4	3							1	X	X	
7	MW-6		1325		4	3							1	X	X	
	MW-7		1320		4	3							1	X	X	
8	Duplicate		—		4	3							1	X	X	
9	Trip Blank	3/13/09	1050		2	2								X		

Turnaround Time (Business days)

- [X] 10 Day *STANDARD*
- [ ] 7 Day
- [ ] 4 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [ ] Other

Approved By: / Date:

Real time analytical data available via Lablink

Data Deliverable Information

- [ ] Commercial "A"
- [X] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Data Package
- [ ] TRRP-13
- [ ] EDD Format______
- [ ] Other______

Commercial "A" = Results Only
Commercial "B" = Results & Standard QC

Comments / Remarks

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by	Date Time	Received By	Relinquished By	Date Time	Received By
1 Sampler: [signature] Johnny Thwarth	3/13/09 1030	1	2		2
3		3	4		4
5 FEDEX	3.14.09 1000	5 [signature]	Custody Seal #	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 1.2

T26039: Chain of Custody

Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T26039 Client: CRA Date/Time Received: 3.14.09 1000

# of Coolers Received: 1 Thermometer #: IR1 Temperature Adjustment Factor: -.4

Cooler Temps: #1: 1.2 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 868932870403

COOLER INFORMATION
- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY
- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION
- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [X] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION
- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:
Did not receive sample MW-7

TECHNICIAN SIGNATURE/DATE: [signature] 3.14.09

INFORMATION AND SAMPLE LABELING VERIFIED BY: _____

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

I:\mwalker\forms\samplemanagement

SAMPLE RECEIPT LOG

JOB #: T26039 DATE/TIME RECEIVED: 3.14.09 1000

CLIENT: CRA INITIALS: IT

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW-1 (DO)	3.11.09 1340	GW	500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓		40mL	2-4	VR	1 (3) 3 4 5 6 7 8	<2	>12
	2	MW-1 (with H2)	3.11.09 1320		500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓		40mL	2-4	VR	1 (3) 3 4 5 6 7 8	<2	>12
	3	MW-2	3.11.09 1335		500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓		40mL	2-4	VR	1 (3) 3 4 5 6 7 8	<2	>12
	4	MW-3	3.11.09 1350		500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓		40mL	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	5	MW-4	3.11.09 1320		500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓		40mL	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	6	MW-5	3.11.09 1310		500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓ ~~1320~~ PT		40mL	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	7	MW-6	3.11.09 ~~1325~~		500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓		40mL	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	8	Duplicate	3.11.09		500mL	1	JJ	(1) 2 3 4 5 6 7 8	<2	>12
	↓	↓	↓	↓	40mL	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
↓	9	Trip Blank	—	DI	↓	1-2	↓	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

T26039: Chain of Custody
Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3330-MB	F015011.D	1	03/21/09	RR	n/a	n/a	VF3330

The QC reported here applies to the following samples: Method: SW846 8260B

T26039-1, T26039-2, T26039-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%
2037-26-5	Toluene-D8	113%	87-119%
460-00-4	4-Bromofluorobenzene	126%	80-133%

Method Blank Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3331-MB	F015036.D	1	03/22/09	RR	n/a	n/a	VF3331

The QC reported here applies to the following samples: **Method:** SW846 8260B

T26039-5, T26039-6, T26039-7, T26039-8, T26039-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%
2037-26-5	Toluene-D8	111%	87-119%
460-00-4	4-Bromofluorobenzene	125%	80-133%

Method Blank Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3334-MB	F015093.D	1	03/24/09	RR	n/a	n/a	VF3334

The QC reported here applies to the following samples: Method: SW846 8260B

T26039-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	123%	80-133%

Blank Spike Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3330-BS	F015009.D	1	03/21/09	RR	n/a	n/a	VF3330

The QC reported here applies to the following samples: **Method:** SW846 8260B

T26039-1, T26039-2, T26039-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	22.5	90	76-118
100-41-4	Ethylbenzene	25	22.8	91	75-112
108-88-3	Toluene	25	22.6	90	77-114
1330-20-7	Xylene (total)	75	69.6	93	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	75-121%
2037-26-5	Toluene-D8	109%	87-119%
460-00-4	4-Bromofluorobenzene	114%	80-133%

Blank Spike Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3331-BS	F015034.D	1	03/22/09	RR	n/a	n/a	VF3331

The QC reported here applies to the following samples: Method: SW846 8260B

T26039-5, T26039-6, T26039-7, T26039-8, T26039-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.6	98	76-118
100-41-4	Ethylbenzene	25	23.9	96	75-112
108-88-3	Toluene	25	23.7	95	77-114
1330-20-7	Xylene (total)	75	73.4	98	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	110%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	75-121%
2037-26-5	Toluene-D8	108%	87-119%
460-00-4	4-Bromofluorobenzene	114%	80-133%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3334-BS	F015085.D	1	03/24/09	RR	n/a	n/a	VF3334
VF3334-BSD	F015086.D	1	03/24/09	RR	n/a	n/a	VF3334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T26039-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	25	23.5	94	21.3	85	10	76-118/30
100-41-4	Ethylbenzene	25	24.6	98	22.5	90	9	75-112/30
108-88-3	Toluene	25	24.6	98	22.5	90	9	77-114/30
1330-20-7	Xylene (total)	75	76.4	102	70.2	94	8	75-111/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	75-121%
2037-26-5	Toluene-D8	110%	110%	87-119%
460-00-4	4-Bromofluorobenzene	114%	113%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T26036-1MS	F015014.D	1	03/21/09	RR	n/a	n/a	VF3330
T26036-1MSD	F015015.D	1	03/21/09	RR	n/a	n/a	VF3330
T26036-1	F015013.D	1	03/21/09	RR	n/a	n/a	VF3330

The QC reported here applies to the following samples: **Method:** SW846 8260B

T26039-1, T26039-2, T26039-3

CAS No.	Compound	T26036-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	23.4	94	23.0	92	2	76-118/16
100-41-4	Ethylbenzene	ND		25	23.3	93	22.9	92	2	75-112/12
108-88-3	Toluene	ND		25	23.1	92	22.6	90	2	77-114/12
1330-20-7	Xylene (total)	ND		75	71.4	95	70.7	94	1	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T26036-1	Limits
1868-53-7	Dibromofluoromethane	111%	111%	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	111%	107%	103%	75-121%
2037-26-5	Toluene-D8	108%	109%	108%	87-119%
460-00-4	4-Bromofluorobenzene	112%	113%	121%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T26039
Account: CRAOHWC CRA West Chester
Project: GHSI-PXP Quarterly Groundwater Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T26039-5MS	F015040.D	1	03/22/09	RR	n/a	n/a	VF3331
T26039-5MSD	F015041.D	1	03/22/09	RR	n/a	n/a	VF3331
T26039-5	F015039.D	1	03/22/09	RR	n/a	n/a	VF3331

The QC reported here applies to the following samples: **Method:** SW846 8260B

T26039-5, T26039-6, T26039-7, T26039-8, T26039-9

CAS No.	Compound	T26039-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	25.0	100	24.8	99	1	76-118/16
100-41-4	Ethylbenzene	ND		25	24.7	99	24.2	97	2	75-112/12
108-88-3	Toluene	ND		25	24.4	98	24.2	97	1	77-114/12
1330-20-7	Xylene (total)	ND		75	76.3	102	75.1	100	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T26039-5	Limits
1868-53-7	Dibromofluoromethane	110%	114%	109%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	113%	100%	75-121%
2037-26-5	Toluene-D8	107%	110%	109%	87-119%
460-00-4	4-Bromofluorobenzene	110%	114%	121%	80-133%

Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

SUBCONTRACT COC

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page 1 of 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client Information	
Company Name	Accutest Gulf Coast
Project Contact	William Reeves
Email	williamr@accutest.com
Address	10165 Harwin Dr, Suite 150
City / State / Zip	Houston, TX 77036
Phone No.	713-271-4700

Subcontract Information	
Subcontract Laboratory	Accutest New Jersey
Laboratory Contact	
Email	
Address	
City / State / Zip	
Phone No.	

Accutest Sample Number	Collection Date	Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NaHSO4	TSP	NONE	OTHER	CHL by IC	LAB USE ONLY
T26039-1	11-Mar-09			1							1		X	48TX
T26039-2	11-Mar-09			1							1		X	
T26039-3	11-Mar-09			1							1		X	
T26039-4	11-Mar-09			1							1		X	
T26039-5	11-Mar-09			1							1		X	
T26039-6	11-Mar-09			1							1		X	
T26039-7	11-Mar-09			1							1		X	
T26039-8	11-Mar-09			1							1		X	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Wastewater; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Liquid; SOL - Other Solid

Turnaround Time (Business days) — Approved By:/ Date:
- [ ] STANDARD
- [ ] 7 Day
- [ ] 4 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] Other 27-Mar-09

Real time analytical data available via Lablink

Data Deliverable Information
- [ ] Commercial "A"
- [X] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Data Package
- [ ] TRRP-13
- [ ] EDD Format ____
- [ ] Other ____

Commercial "A" = Results Only
Commercial "B" = Results & Standard QC

Comments / Remarks
NAB TRS 3/18/09

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	3/17/09 1610	1 FedEx	2 FedEx	3/18/09 0940	2 [signature]
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 2.6°C

T26039: Chain of Custody
Page 1 of 2
Accutest New Jersey

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T26039 **Client:** **Immediate Client Services Action Required:** No

Date / Time Received: 3/18/2009 **Delivery Method:** **Client Service Action Required at Login:** No

Project: **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservatio	Y or N
1. Trip Blank present / cooler:	☐ ☐
2. Trip Blank listed on COC:	☐ ☐
3. Samples preserved properly:	☑ ☐
4. VOCs headspace free:	☐ ☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N
1. Analysis requested is clear:	☑ ☐
2. Bottles received for unspecified tests	☐ ☑
3. Sufficient volume recvd for analysis:	☑ ☐
4. Compositing instructions clear:	☐ ☐
5. Filtering instructions clear:	☐ ☐

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

5

T26039: Chain of Custody
Page 2 of 2

General Chemistry

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T26039
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: CRAOHWC: GHSI-PXP Quarterly Groundwater Sampling

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP48349/GN24726	2.0	0.0	mg/l	80	83.8	104.8	90-110%
Chloride	GP48349/GN24784	2.0	0.0	mg/l	80	83.4	104.3	90-110%
Chloride	GP48349/GN24804	2.0	0.0	mg/l	80	82.7	103.4	90-110%

Associated Samples:
Batch GP48349: T26039-1, T26039-2, T26039-3, T26039-4, T26039-5, T26039-6, T26039-7, T26039-8
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T26039
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: CRAOHWC: GHSI-PXP Quarterly Groundwater Sampling

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP48349/GN24784	T26039-1	mg/l	922	922	0.0	0-20%

Associated Samples:
Batch GP48349: T26039-1, T26039-2, T26039-3, T26039-4, T26039-5, T26039-6, T26039-7, T26039-8
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T26039
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: CRAOHWC: GHSI-PXP Quarterly Groundwater Sampling

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP48349/GN24726	T26039-3	mg/l	140	80	221	101.3	80-120%
Chloride	GP48349/GN24784	T26039-1	mg/l	922	800	1730	101.0	80-120%

Associated Samples:
Batch GP48349: T26039-1, T26039-2, T26039-3, T26039-4, T26039-5, T26039-6, T26039-7, T26039-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

of holding time to meet the project specified limits. All compounds associated with the reanalysis were qualified as estimated (See Table 3).

Surrogate compounds were added to all samples, blanks, and QC samples prior to VOC analysis. All surrogate recoveries were acceptable, demonstrating good analytical accuracy.

Method blanks were analyzed for all parameters. Target compounds were not detected in the method blanks indicating that contamination was not an issue for this event.

Blank spike (BS) samples were prepared and analyzed for all parameters. The BS analyses demonstrated acceptable analytical accuracy.

While Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed for all VOCs and chloride, the sample selected was not from this project. On this basis, the MS/MSD was not evaluated and no qualification of data was needed.

One field duplicate sample set was submitted for analysis. The data indicate that an adequate level of precision was achieved for the sampling event.

One trip blank sample was submitted for analysis. Target compounds were not detected in the trip blank indicating that contamination was not an issue for this event.

CONCLUSION

Based on the preceding assessment, the data were acceptable for use with the noted qualifications.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
QUARTERLY GROUNDWATER MONITORING
PXP-HILL, E.C. "B" FEDERAL #7 TB
LEA COUNTY, NEW MEXICO
JUNE 2009

			Analysis/Parameters		
Sample I.D.	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*VOCs (BTEX)*	*Chloride*	*Comments*
MW-1 (Well #7)	06/10/09	14:30	X	X	
MW-1 (DUP)	06/10/09	14:30	X	X	Field Duplicate of MW-1
MW-2	06/10/09	15:15	X	X	
MW-3	06/10/09	14:50	X	X	
MW-4	06/10/09	15:30	X	X	
MW-5	06/10/09	15:45	X	X	
MW-6	06/10/09	16:10	X	X	
MW-7	06/10/09	16:00	X	X	
Trip Blank	06/10/09	--	X		

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene.
VOCs - Volatile Organic Compounds.

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
PXP-HILL, E.C. "B" FEDERAL #7 TB
LEA COUNTY, NEW MEXICO
JUNE 2009

	Sample Location:	*MW-1*	*MW-1*	*MW-2*	*MW-3*	*MW-4*	*MW-5*	*MW-6*	*MW-7*
	Sample ID:	*MW-1 (WELL #7)*	*MW-1 (DUP)*	*MW-2*	*MW-3*	*MW-4*	*MW-5*	*MW-6*	*MW-7*
	Sample Date:	*6/10/2009*	*6/10/2009 (Duplicate)*	*6/10/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*
Parameters	*Units*								
Volatile Organic Compounds - BTEX									
Benzene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	µg/L	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
General Chemistry									
Chloride	mg/L	610	525	134	243	645	860	87.4	1030

Notes:

U - Not present at or above the associated value.
UJ - Estimated reporting limit.

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO HOLDING TIME EXCEEDANCES
QUARTERLY GROUNDWATER MONITORING
PXP-HILL, E.C. "B" FEDERAL #7 TB
LEA COUNTY, NEW MEXICO
JUNE 2009

Parameter	*Sample ID*	*Holding Time (days)*	*Holding Time Criteria (days)*	*Qualified Sample Results*	*Units*
Ethylbenzene	MW-2	15	14	1.0 UJ	µg/L
Toluene				1.0 UJ	µg/L
Xylene (total)				3.0 UJ	µg/L
Benzene				1.0 UJ	µg/L

Notes:

UJ - The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST Laboratories

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # 8043 8850 5997 | Bottle Order Control #
Accutest Quote # | Accutest Job # T31094

Client / Reporting Information

Company Name: Conestoga Rover & Associates
Street Address: 9033 Meridian Way
City: West Chester | State: OH | Zip: 45069
Project Contact: Angela Bown | E-mail: abown@craworld.com
Phone #: 513-942-4750 | Fax #:
Sampler(s) Name(s): | Phone #:

Project Information

Project Name: GSHI PXP Hill, E.C. Federal #7 TB
Street:
City: | State: NM
Project #: 115-6402943
Client Purchase Order #: 55627DM (ENV749A008)
Project Manager: Teri Reed

Billing Information (if different from Report to)

Company Name: GSHI c/o CRA
Street Address: 2056 Niagara Falls Blvd, Suite 3
City: Niagara Falls | State: NY | Zip: 14304
Attention: Jan Devonshire

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	MeOH	ZnAcet+NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	VX2608TX	Chloride	Matrix Codes / LAB USE ONLY
1	MW-1 (Dup)	6-10-09	1430	RG/KD	GW	4	3					1							X	X	
2	MW-1 (Well #7)		1430		GW	4	3					1							X	X	
	MW-2		1515		GW	4	3					1							X	X	
3	MW-3		1450		GW	4	3					1							X	X	
4	MW-4		1530		GW	4	3					1							X	X	
5	MW-5		1545		GW	4	3					1							X	X	
6	MW-6		1610		GW	4	3					1							X	X	
7	MW-7 (Conv. Fed #7)		1600		GW	4	3					1							X	X	
	~~Dup - 2~~				GW	4	3					1							X	X	
8	Trip Blank				WTB	3	3												X		

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Turnaround Time (Business days)

- [X] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM) / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1		6-11-09 3:20 pm	1	2 Fed Ex	06/12/09 0915	2
3	Relinquished by Sampler	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable	On Ice: 4	Cooler Temp.: 5.6

4.1 4

4.1 **4**

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 1

Project Contact: Angela Bown
Company Name: CRA
E-Mail: abown@craworld.com

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

T31115

CLIENT NAME: OXY
SITE MANAGER: Ike Tavarez
PROJECT NO.: 115-6402943
PROJECT NAME: OXY/GSHI PXP Hill, EC Federal #7 (ENV 749A008) 7556270M

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE 2009	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B (8260b)	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	6/10	1515	W		X	MW-2	4		3		X		X												X				

RELINQUISHED BY: (Signature) Robert Grubbs Jr.	Date: 6/12/05 Time: 1545	RECEIVED BY: (Signature) [signature]	Date: 06/13/09 Time: 1000
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

RECEIVING LABORATORY: Accutest
ADDRESS: 10165 Harwin Suite 150 Houston
CITY: Houston STATE: TX ZIP: 770
CONTACT: PHONE:
RECEIVED BY: (Signature) DATE: TIME:

SAMPLED BY: (Print & Initial) Robert Grubbs Jr. Date: 6/12/05 Time: 1520
SAMPLE SHIPPED BY: (Circle) FEDEX (circled) BUS AIRBILL #:
HAND DELIVERED UPS OTHER:
TETRA TECH CONTACT PERSON: Ike Tavarez
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:
REMARKS: Temp. 1.6

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.