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FEB 2014



2013 ANNUAL GROUNDWATER MONITORING REPORT

**LOVINGTON PADDOCK REMEDIATION SITE
SECTION 1, TOWNSHIP 17 SOUTH, RANGE 36 EAST
LEA COUNTY, NEW MEXICO**

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**FEBRUARY 2014
REF. NO. 073020 (4)**

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SECTION 1, TOWNSHIP 17 SOUTH, RANGE 36 EAST
LEA COUNTY, NEW MEXICO

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SECTION 1.0 Introduction

Conestoga-Rovers & Associates (CRA) has prepared this report, on behalf of Chevron Environmental Management Company (CEMC), summarizing groundwater monitoring activities and operation of the existing bio-sparg system at the Lovington Paddock Groundwater Remediation Site (Site). Data presented in this report were collected by CRA during two semi-annual monitoring events conducted in January 2013 and July 2013.

The Site is located in the S 1/2, SE 1/4, Section 1, Township 17 South, Range 36 East. It is approximately 6.2 miles southeast of Lovington in Lea County, New Mexico. The Site lies at latitude 32° 51' 32.31" N and longitude 103° 18' 8.14" W (Figure 1). There are two active pipelines on the Site. A portion of the surface at the Site is owned by Mico Oilfield Services of Hobbs, New Mexico.

Section 2.0 Background

Investigation of potential hydrocarbon impact related to the abandoned ATB1-1 pit on the northern portion of the site was initiated in June 1998 by Highlander Environmental Corp. Soil borings BH-1 through BH-5 were advanced at that time. Shortly thereafter approximately two feet of sludge was excavated from the abandoned pit. Nine monitor wells (MW-1 through MW-9) were installed by March 1999 with two separate hydrocarbon plumes identified. One plume surrounded the abandoned pit while the other was upgradient (south) from the first and under the EOTT Energy, LLC (EOTT) pipeline. Soil borings BH-6 through BH-11 were advanced in March 2000 to assess the upgradient plume. Boring BH-11 was completed as MW-10. At that time MW-4 and MW-10 were impacted by light non-aqueous-phase liquid (LNAPL). Monitor wells MW-3, MW 5, and MW-6 were impacted by dissolved-phase benzene, toluene, ethylbenzene, and xylenes (BTEX).

In March 2001, three hundred feet of pipeline were uncovered by Environmental Plus, Inc. on behalf of EOTT, to determine if the EOTT pipeline in the vicinity of the impacts had been repaired or replaced. No previously repaired or replaced pipeline was discovered. The 40-acre tract on which the Site lies was purchased by AST West from the City of Lovington in 2001. AST West installed a water supply well south of the site. Four water wells, WW-1, WW-2, WW-3, and WW-4, were installed by Goff Dairies east and south of the Site. Each well was designed to pump approximately 600 to 800 gallons per minute (gpm). Pumping from some of these wells has resulted in lowering the water table by several feet; complete loss of the groundwater column in MW-1 through MW-10; and changing the direction of the groundwater gradient from northeast to southeast.

Arcadis installed deeper monitor wells MW-A through MW-J and MW-L through MW-N in November 2003 to continue monitoring the southern hydrocarbon plume. None of these wells exhibited LNAPL. Arcadis also installed well BW-1 and a low-flow bio-sparg system to remediate the dissolved-phase

hydrocarbon plume. Additional monitor wells MW-O, MW-P, and MW-Q were installed to further delineate the extent of the hydrocarbon plume. Another monitor well, MW-D2, was installed to investigate potential impact of the groundwater by chlorides. Groundwater results from MW-D2 indicated that the aquifer had not been affected by chlorides and/or total dissolved solids. A 90-day test of the bio-spargage system indicated a significant positive affect by the system. This led Arcadis to install two additional bio-spargage wells, BW-2 and BW-3, in May 2005 and conduct a 180-day study of the expanded bio-spargage system. Arcadis concluded in a March 2006 report that the bio-spargage system had prevented further downgradient movement of the petroleum-hydrocarbon plume.

After acquiring the Site from Arcadis, SECOR International continued operation of the bio-spargage system. Monitor wells MW-S and MW-T were installed in July 2006. MW-T was converted into a bio-spargage well upon failure of BW-2. On the basis of data collected between July 2006 and May 2007, SECOR could not definitely conclude that the bio-spargage system was having its intended effect upon the hydrocarbon plume. SECOR installed three additional monitor wells, MW-U, MW-V, and MW-W to better evaluate the effectiveness of the bio-spargage system. Based on groundwater monitoring results through 2007, SECOR indicated that impact of groundwater by hydrocarbons had occurred near the intersection of two pipelines on the Site. Groundwater monitoring and operation of the bio-spargage system continued throughout 2008 and 2009.

CRA was selected to provide environmental consulting services at the Site in November 2010. Wildfires damaged some surface equipment in the Spring of 2011. The biosparge system has not operated since 2011. As noted in Section 5.0, CRA is evaluating whether or not the existing biosparge system will be used in further remediation efforts at the Site. Dissolved benzene concentrations increased in monitor wells MW-B, MW-H, MW-I, and MW-T during 2011. Continued use of water wells by Goff Dairy throughout 2012 and 2013 lowered the water table such that monitor wells MW-B through MW-I and MW-O through MW-Q were dry during the July 2013 monitoring event. Dissolved phase benzene concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard of 0.01 mg/l in BW-3, MW-B, MW-H, MW-I, MW-T, and MW-V when last sampled.

Section 3.0 Regulatory Framework

The New Mexico Oil Conservation Division (NMOCD) of the New Mexico Energy, Minerals, and Natural Resources Department (NMOCD) has regulatory jurisdiction over corrective actions being conducted at the Site. Corrective actions follow guidance given by the NMOCD in *Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993)*. These guidelines require remediation of groundwater to the human health standards of the NMWQCC set forth in New Mexico Administrative Code (NMAC) 20.6.2.3103A that are shown in the following table.

<i>Analyte</i>	<i>NMWQCC Standard for Groundwater (mg/L)</i>
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total xylenes	0.62

Section 4.0 Groundwater Monitoring

The Site includes 23 existing monitor wells (MW-A through MW-W, except MW-K), MW-D2, and three existing bio-spargers (BW-1 through BW-3). They are shown on the Site Details Map on Figure 2. The Site was monitored during two semi-annual events in 2013. The first event took place from January 21 through January 23. MW-A was not gauged or sampled during that event, because its down-hole casing collapsed in 2008. Monitor well MW-J was gauged but not sampled due to an insufficient water column.

The second event was conducted from July 22 through July 24. All three biosparger wells, and all monitor wells with sufficient groundwater present were gauged and sampled during the event. Monitor wells MW-A through MW-H, MW-I, and MW-O were not gauged or sampled due to being dry. Monitor wells MW-N, MW-P, and MW-Q were gauged but not sampled.

4.1 Field Methodology

Water levels were measured to the nearest one-hundredth of a foot in each well before purging and sampling. Water levels were measured with an electronic oil-water interface probe. Water levels were measured from the top of the casing at permanent reference points, or at the north edge of the casing if no permanent reference point was marked. No LNAPL was detected in any well during 2013.

Low-flow purging techniques were used prior to sampling. Temperature, oxidation-reduction potential (ORP), pH, conductivity, and dissolved oxygen (DO) were monitored during purging. Purging continued until at least three of these parameters were within 10 percent of previous readings for three consecutive measurements. Samples were then collected, labeled, and recorded on a laboratory chain-of-custody form. Samples were placed on ice immediately to maintain a temperature of approximately 40°F (4°C). Field equipment was decontaminated with an Alconox™ wash and distilled water rinse before beginning field activities and between wells. Samples of groundwater collected

during the monitoring event were delivered to Xenco laboratories in Odessa, Texas for analyses. Proper chain-of-custody documentation was maintained throughout sampling and analytical processes.

Samples collected during 2013 were analyzed for dissolved benzene, toluene, ethylbenzene, and total xylenes (BTEX) according to analytical method SW846-8021B. Samples were also analyzed for total petroleum hydrocarbons (TPH) in the gasoline range (TPH-GRO) and TPH in the diesel range (TPH-DRO), according to analytical method SW846-8015B.

4.2 Potentiometric surface and gradient

Fluid level measurements collected during 2013 are shown in Table 1. Surveyed tops of well casings and elevations of potentiometric surface are shown in feet above mean sea level (famsl). The range of groundwater elevations during the first semi-annual monitoring event between January 21 and 23 was from 3718.61 famsl to 3709.39 famsl. The potentiometric surface map for the January 2013 monitoring event is shown in Figure 3. It indicates that the direction of flow of groundwater was toward the east. The calculated gradient was 0.012 feet/feet (ft/ft).

The range of groundwater elevations during the second monitoring event between July 22 and 24 was from 3715.56 famsl to 3699.10 famsl. The potentiometric surface map generated from the July 2013 monitoring event is shown on Figure 4. This map indicated that the direction of groundwater was also to the east with a calculated gradient of 0.016 ft/ft. The direction and calculated gradient for the potentiometric surface at the Site for both 2013 events are consistent with those determined during monitoring events since pumping from the Goff water wells began.

The groundwater flow direction and calculated gradient have changed dramatically over time at the Lovington Paddock Site due to pumping from the AST and Goff wells. Before installation of water supply wells WW-1 through WW-4 by Goff Dairy in 2001, directions of the gradient were consistently toward the northeast. Since pumping from the Goff wells began, the groundwater flow direction and gradient has been variable—from east to southeast. The groundwater flow direction shown on Figure 3 suggests that recent pumping has occurred at WW-3 and WW-4. Comparison of gauging data from the monitoring event in October 2012 with data recorded in July 2013 indicates that overall the groundwater elevation increased in 13 wells (BW-1 through BW-3, MW-J, MW-L through MW-N, MW-R, MW-S, MW-U through MW-W, and MW-D2) measured during both monitoring events. The increase in elevations ranged from 0.26 to 2.6 feet. The average increase among those wells was 0.89 feet. Well MW-T decreased in elevation from the October 2012 to July 2013 monitoring event. The decrease in elevation for MW-T was 2.27 feet.

4.3 Groundwater results

Groundwater samples were collected from BW-1 through BW-3, MW-B through MW-I, MW-L through MW-W, and MW-D2 during the January 2013 semi-annual event. Monitor well MW-J was not sampled due to an insufficient quantity of water.

Groundwater samples were collected from BW-1 through BW-3, MW-J, MW-L, MW-M, MW-R through MW-W, and MW-D2 during the July 2013 semi-annual event. Monitor wells MW-B through MW-I, and MW-O through MW-Q were not sampled due to being dry at the time of the event.

The analytical results for groundwater samples collected during the 2013 monitoring events are summarized in Table 2. A cumulative table of historical groundwater analytical results for the Site is provided in Appendix B. Analytical results for the January and July 2013 monitoring events are shown on Figure 5 and 6, respectively. The laboratory analytical reports and associated chain-of-custodies for both 2013 events are provided in Appendix C. Charts of COPC concentrations versus time are shown in Appendix D.

Benzene was present in BW-2, BW-3, MW-B, MW-H, MW-I, and MW-T at concentrations above the NMWQCC remediation standard of 0.01 mg/L during the January 2013 monitoring event. Dissolved benzene concentrations in BW-3, MW-T, and MW-V exceeded the standard during the July 2013 event. Figure 5 depicts the approximate boundary of a dissolved benzene plume that encompasses these wells at concentrations exceeding the standard. Two smaller plumes, one encompassing BW-3 and the other MW-T, are shown on Figure 6. These smaller plumes are due to the surrounding wells being dry during the July 2013 monitoring event.

Dissolved TPH-GRO was detected at concentrations exceeding the NMWQCC remediation standard of 1.5 mg/L in samples MW-B, MW-H, and MW-T during the January 2013 monitoring event. The dissolved TPH-GRO concentration from MW-T also exceeded the standard during the July 2013 event. Dissolved TPH-DRO was not detected at concentrations exceeding 1.5 mg/L in any sample of groundwater collected in 2013.

Section 5.0 Groundwater Remediation and Performance

The bio-sparge system has not operated since May 2011 due to past damage and numerous mechanical issues. In May 2011 a wildfire burned through much of the Site. Monitor wellheads, air compressors, and remaining surface equipment not in contact with the ground were not damaged. The repair and/or replacement of the existing bio-sparge system along with other viable options to remediate the existing groundwater impacts are being evaluated as part of the Site closure strategy. This evaluation will be documented and presented to NMOCD and CEMC for approval.

Section 6.0 Summary of Findings

Based on groundwater monitoring and remedial activities performed at the Site, CRA presents the following summary of findings:

- Groundwater monitoring was conducted by CRA on a semi-annual basis in 2013. The monitoring events occurred in January and July 2013. MW-A was not gauged or sampled during the January 2013 event, because its down-hole casing collapsed in 2008. Monitor well MW-J was gauged in January 2013 but not sampled due to an insufficient water column. Monitor wells MW-B through MW-I and MW-O were not gauged or sampled in July 2013 due to being dry. Monitor wells MW-N, MW-P, and MW-Q were gauged but not sampled due to an insufficient water column during the July 2013 monitoring event.
- The groundwater flow direction across the Site was generally to the east during the 2013 monitoring events. The calculated gradient was 0.0012 ft/ft and 0.0016 ft/ft for the January and July 2013 events, respectively. Comparison of gauging data from the monitoring event in October 2012 with data recorded in July 2013 indicates that overall the groundwater elevation increased in 13 wells (BW-1 through BW-3, MW-J, MW-L through MW-N, MW-R, MW-S, MW-U through MW-W, and MW-D2) measured during both monitoring events. The increase in elevations ranged from 0.26 to 2.6 feet. The average increase among those wells was 0.89 feet. Well MW-T decreased 2.27 feet in elevation from the October 2012 to July 2013 monitoring event.
- Dissolved benzene concentrations in BW-2, MW-B, MW-H, MW-I, and MW-T were reported above the NMWQCC standard during the January 2013 monitoring event. Benzene was detected in BW-3, MW-T, and MW-V at concentrations above the standard during the July 2013 event. The remaining bio-sparge and monitor wells were either non-detect or had detected levels of other dissolved BTEX constituents, all of which were below their respective NMWQCC remediation standards during both events.
- Dissolved TPH-GRO was detected at concentrations exceeding the NMWQCC remediation standard of 1.5 mg/L in samples MW-B, MW-H, and MW-T during the January 2013 monitoring event. The dissolved TPH-GRO concentration from MW-T also exceeded the standard during the July 2013 event. Dissolved TPH-DRO was not detected at concentrations exceeding 1.5 mg/L in any sample of groundwater collected in 2013.

Section 7.0 Planned Activities

The bio-sparge system has not operated since May 2011, partially due to damage from a wildfire at that time and mechanical issues. Semi-annual gauging and sampling is planned for March and September

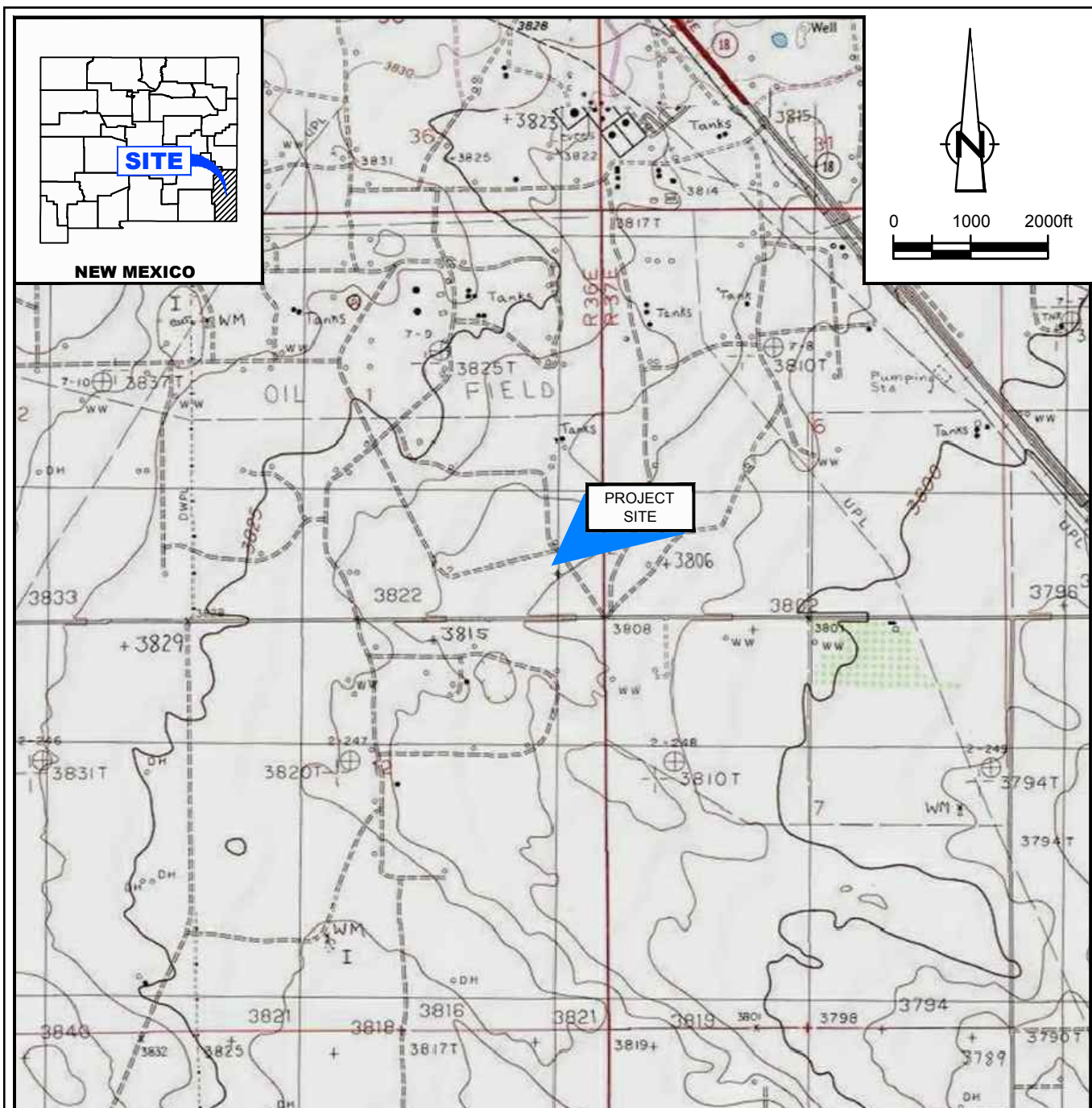
2014. Groundwater levels will be measured in all wells where groundwater is available. All wells that have sufficient groundwater present will be purged and sampled. Samples will be analyzed for BTEX, TPH-GRO and TPH-DRO.

The 2014 semi-annual groundwater monitoring events at the Site will be summarized in an annual report for submission to the NMOCD. The report will include tabulated data from gauging activities; tabulated results of chemical analyses; maps of groundwater gradients and maps of COPCs observed during each monitoring event; and recommendations to expedite the Site toward closure.

As noted in Section 5.0, the repair and/or replacement of the existing bio-sparge system along with other viable options to remediate the existing groundwater impacts are being evaluated as part of the Site closure strategy. At this time, groundwater impacts are restricted to only 3 to 4 wells onsite. Potential alternatives for which pilot tests may be considered include soil vapor extraction (SVE). In August 2013, AcuVac Remediation, LLC (AVR) of Houston, Texas conducted three quick SVE tests, each a few minutes in duration, on MW-H, MW-I, and MW-W to determine vapor flow rates and concentrations of TPH, carbon dioxide (CO₂), carbon monoxide (CO), oxygen (O₂), and hydrogen sulfide (H₂S). Monitor well MW-H was selected at the time for an 8-hour SVE pilot test to determine the total volume of hydrocarbons extracted and the radius of influence of the extraction.

The results of the SVE pilot test will be presented in a Site Closure Strategy Evaluation package. The package will include input from NMOCD and property owners of nearby receptors regarding the feasibility of eliminating or showing via modeling there is little to no risk to such receptors. The information will be used to determine if the Site can be closed without further remediation using the risk assessment process. In addition, cost-effective and innovative remedial technologies, that work well on Sites where other remedial technologies have been tried and no longer work and/or groundwater monitoring only has occurred, will be evaluated to determine the best and quickest path toward closure. The package will be presented to CEMC in June 2014.

FIGURES



SOURCE: USGS 7.5 MINUTE QUAD
"LOVINGTON SE, NEW MEXICO"

LAT/LONG: 32.8586° NORTH, 103.3015 WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

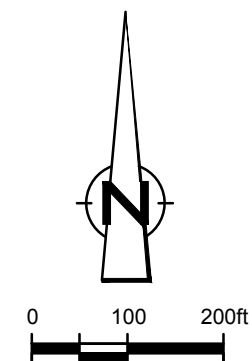
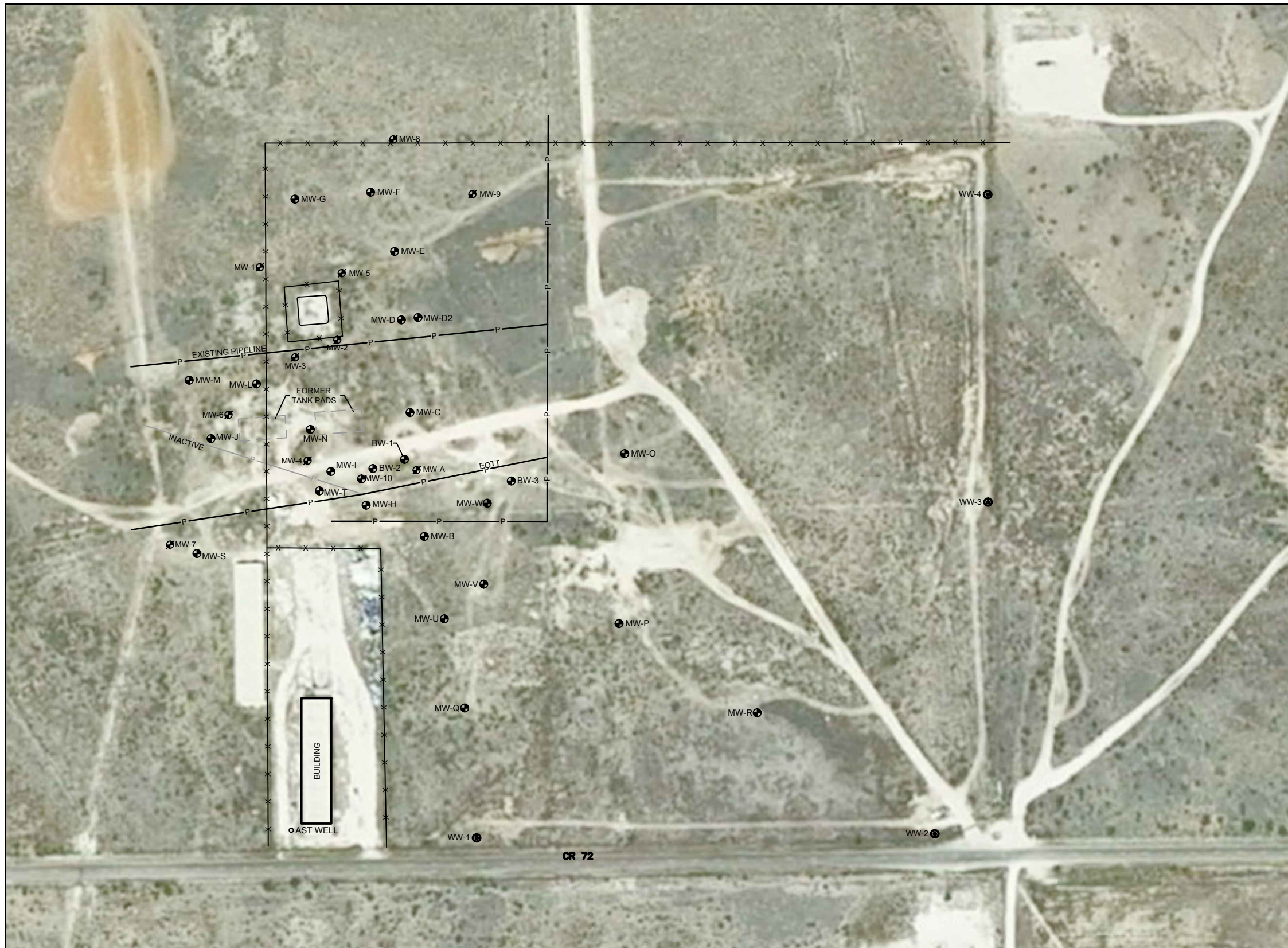
figure 1

SITE LOCATION MAP
LOVINGTON PADDOCK SITE

SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company, Houston, Texas



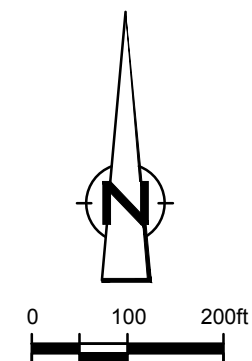
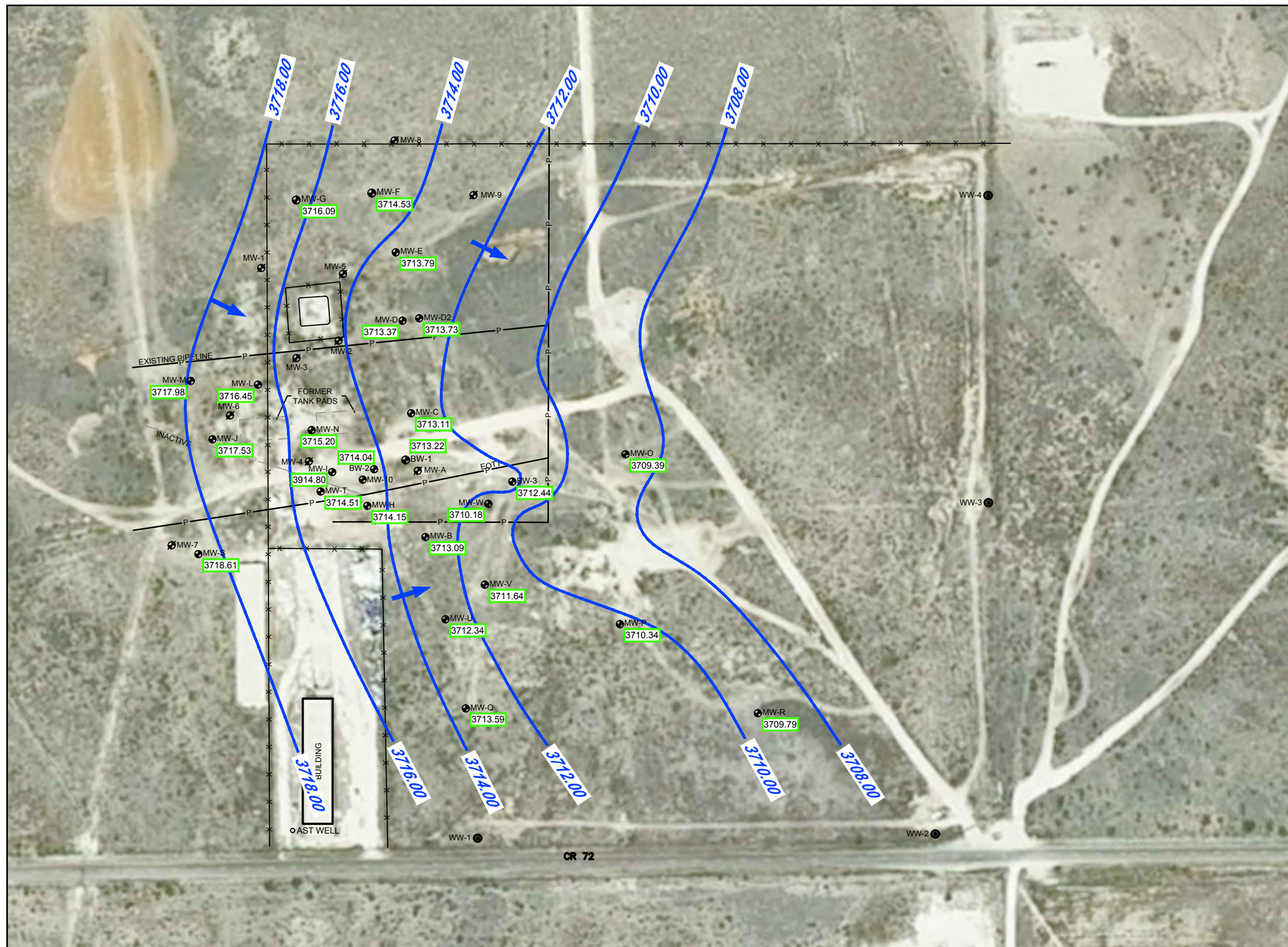


LEGEND	
	Monitoring Well Location
	Goff Diary Well Location
	Plugged and Abandoned Monitor Well
	Fence Line
	Underground Petroleum Pipeline

figure 2

SITE DETAILS MAP
LOVINGTON PADDOCK SITE
SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company, Houston, Texas





NOTES:

1. Groundwater elevations indicated are from measurements obtained on January 21, 2013.
2. Groundwater Gradient = 0.012 ft/ft.

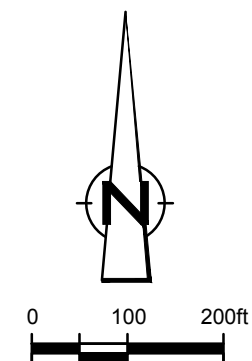
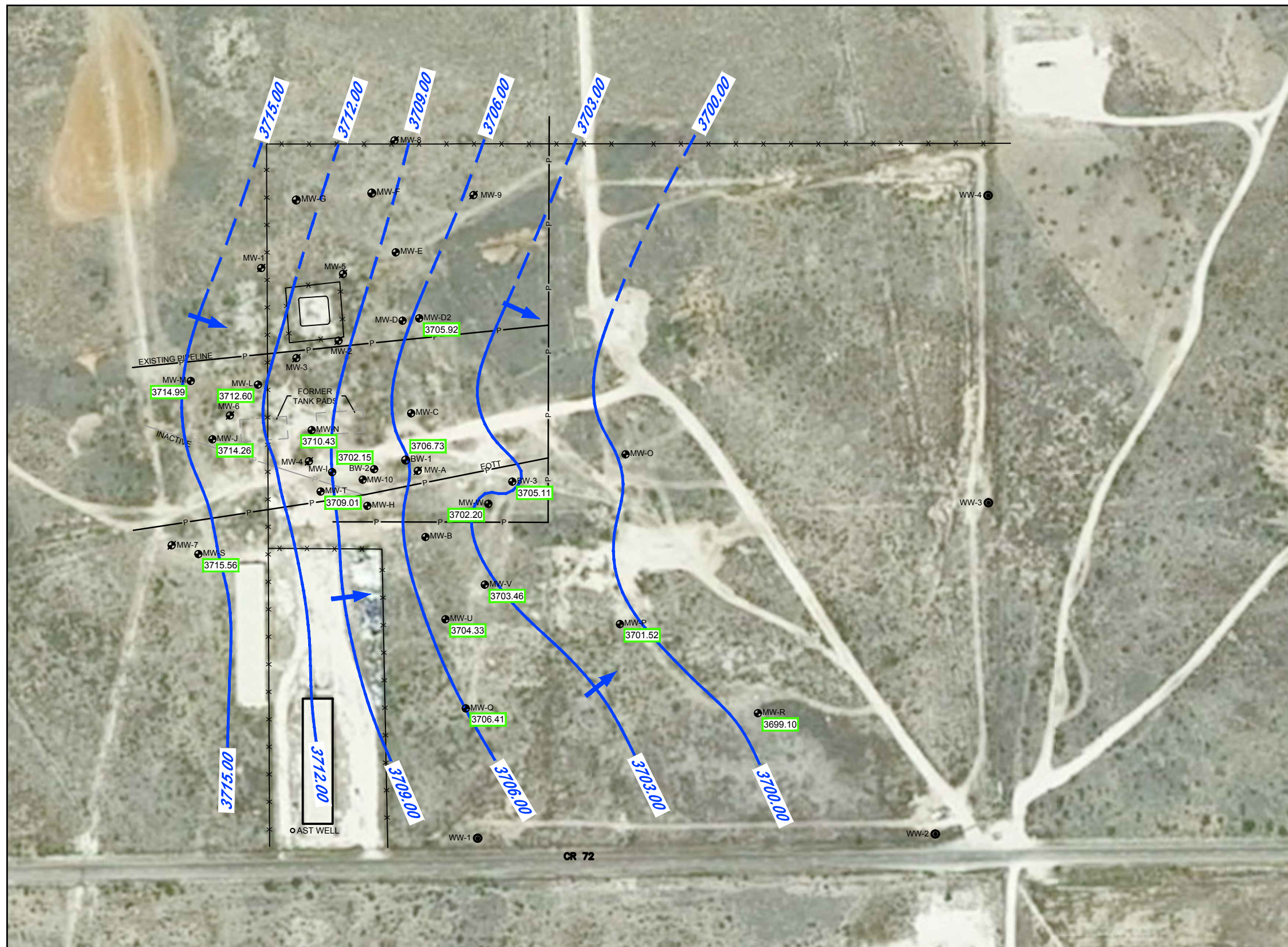
LEGEND

- Monitoring Well Location
- Goff Diary Well Location
- Plugged and Abandoned Monitor Well
- Fence Line
- Underground Petroleum Pipeline
- Groundwater Elevation Contour (Interval = 1.0 ft)
- Elevation of Groundwater (ft)
- Direction Of Groundwater Flow

figure 3

POTENTIOMETRIC SURFACE MAP - JANUARY 2013
LOVINGTON PADDOCK SITE
SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company, Houston, Texas





NOTES:

1. Groundwater elevations indicated are from measurements obtained on July 22, 2013.
2. Groundwater Gradient = 0.016 ft/ft.
3. Wells MW-B thru MW-I and MW-N thru MW-Q were dry during July 2013 event.

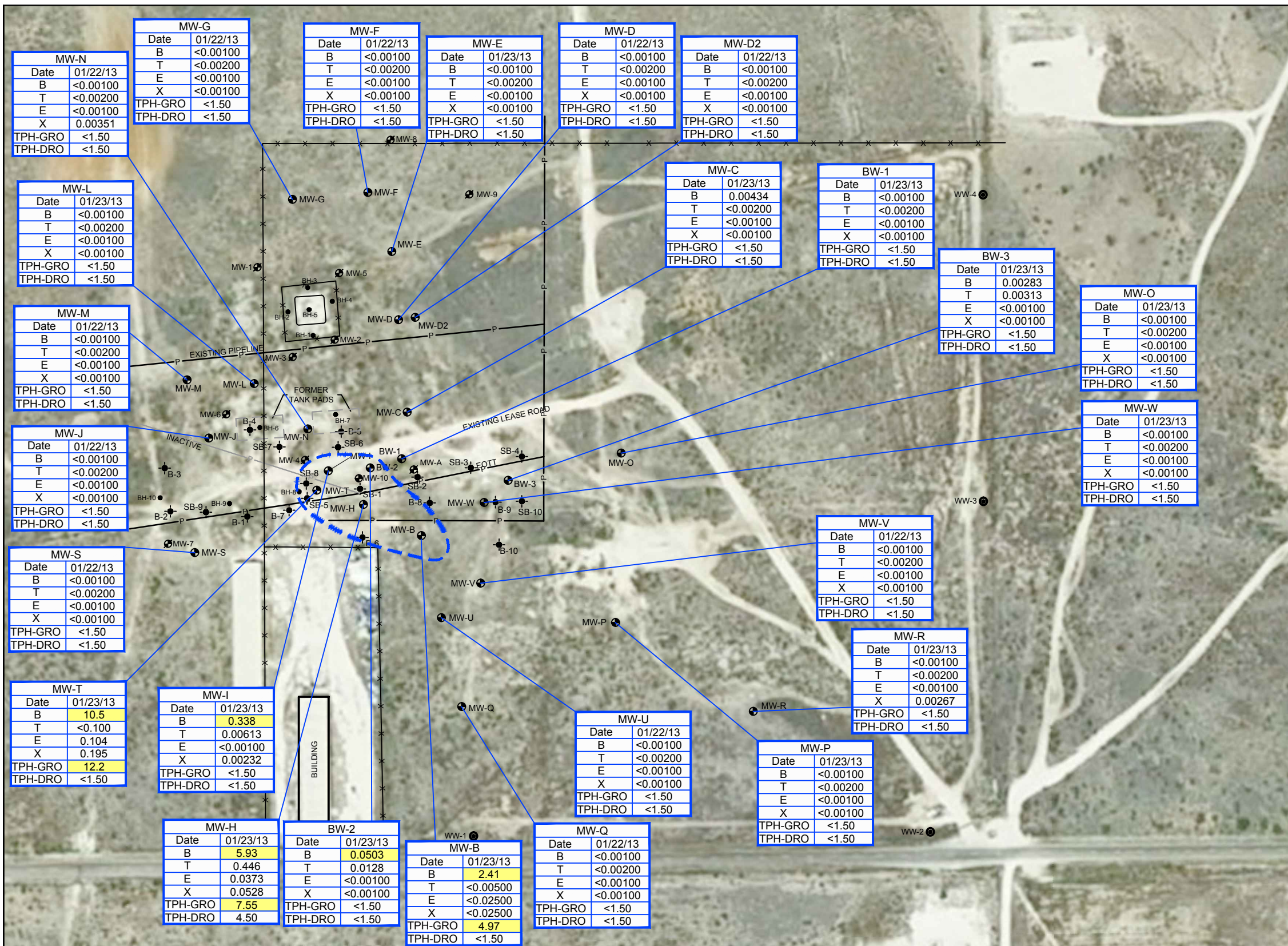
LEGEND

- Monitoring Well Location
- Goff Diary Well Location
- Plugged and Abandoned Monitor Well
- Fence Line
- Underground Petroleum Pipeline
- Groundwater Elevation Contour (Interval = 5.0 ft)
- Elevation of Groundwater (ft)
- Direction Of Groundwater Flow

figure 4

POTENTIOMETRIC SURFACE MAP - JULY 2013
LOVINGTON PADDOCK SITE
SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company, Houston, Texas





NOTE:

1. Concentrations shaded in yellow exceed corresponding standard or guideline.

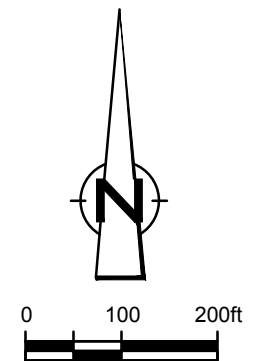
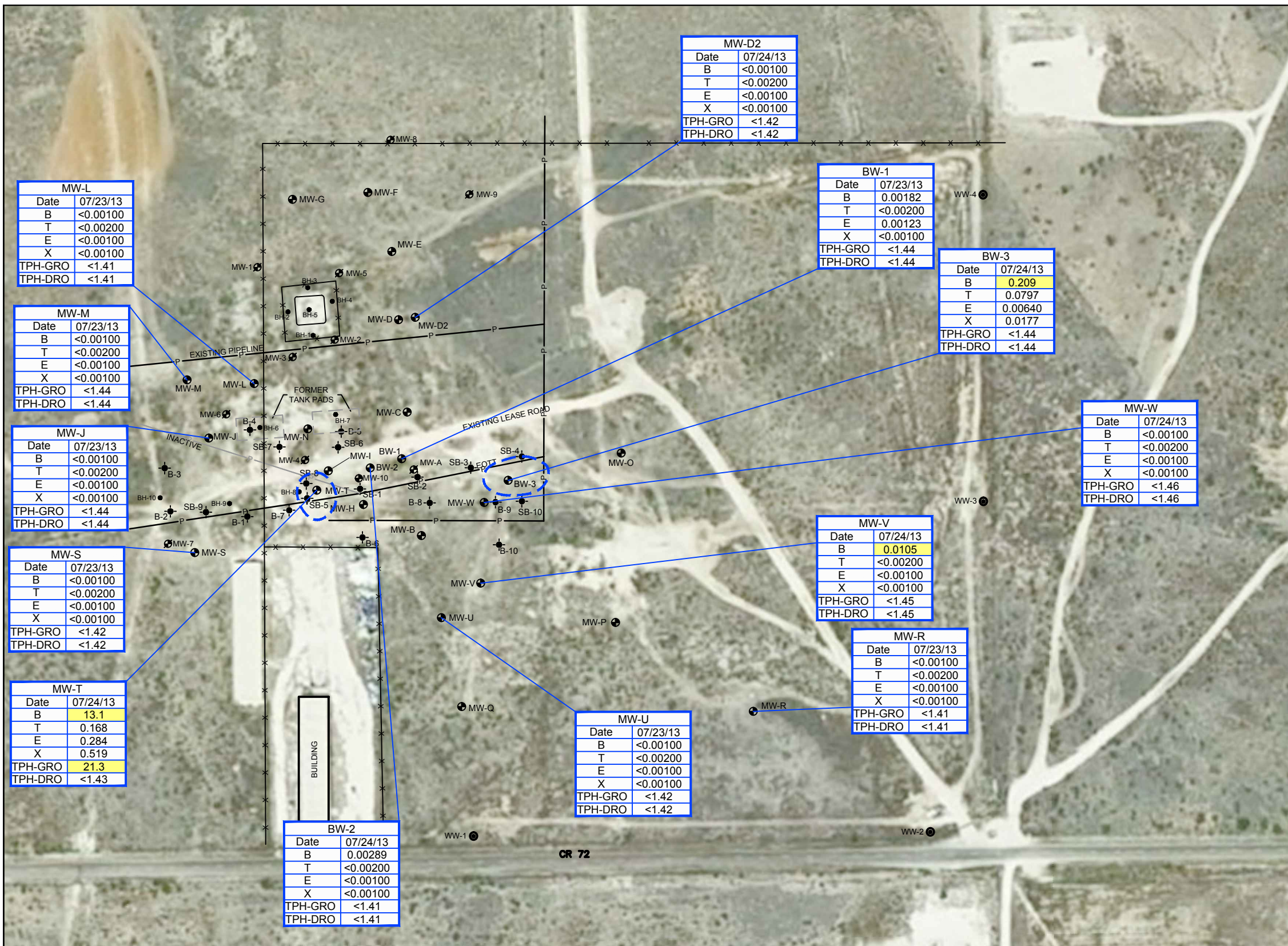
LEGEND

- Monitoring Well Location
- Goff Diary Well Location
- Plugged and Abandoned Monitor Well
- Fence Line
- Underground Petroleum Pipeline
- Extent of Benzene Exceedances
- B Benzene Concentration (mg/L)
- T Toluene Concentration (mg/L)
- E Ethylbenzene Concentration (mg/L)
- X Xylenes Concentration (mg/L)
- TPH-GRO Concentration of Dissolved Total Petroleum Hydrocarbons Gasoline Range Organics (C10 - C28) (mg/L)
- TPH-DRO Concentration of Dissolved Total Petroleum Hydrocarbons Diesel Range Organics (C10 - C28) (mg/L)

figure 5

DISSOLVED HYDROCARBONS CONCENTRATION MAP - JANUARY 2013
LOVINGTON PADDOCK REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company, Houston, Texas





NOTES:

1. Concentrations shaded in yellow exceed corresponding standard or guideline.
2. Wells MW-B thru MW-I and MW-N thru MW-Q not sampled during July 2013 event due to being dry.

LEGEND

- Monitoring Well Location
- Goff Diary Well Location
- Plugged and Abandoned Monitor Well
- Fence Line
- Underground Petroleum Pipeline
- Extent of Benzene Exceedances
- B Benzene Concentration (mg/L)
- T Toluene Concentration (mg/L)
- E Ethylbenzene Concentration (mg/L)
- X Xylenes Concentration (mg/L)
- TPH-GRO Concentration of Dissolved Total Petroleum Hydrocarbons Gasoline Range Organics (C10 - C28) (mg/L)
- TPH-DRO Concentration of Dissolved Total Petroleum Hydrocarbons Diesel Range Organics (C10 - C28) (mg/L)

figure 6

DISSOLVED HYDROCARBONS CONCENTRATION MAP - JULY 2013
LOVINGTON PADDOCK REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company, Houston, Texas



TABLES

TABLE 1

**2013 FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>
BW-1	3816.14	1/21/2013	102.92	3713.22
	3816.14	7/22/2013	109.41	3706.73
BW-2	3816.57	1/21/2013	102.53	3714.04
	3816.57	7/22/2013	108.42	3708.15
BW-3	3815.82	1/21/2013	103.38	3712.44
	3815.82	7/22/2013	110.71	3705.11
MW-A	3816.04	1/21/2013	Collapsed	
	3816.04	7/22/2013	Collapsed	
MW-B	3816.09	1/21/2013	103.00	3713.09
	3816.09	7/22/2013	Dry	
MW-C	3817.04	1/21/2013	103.93	3713.11
	3817.04	7/22/2013	Dry	
MW-D	3816.08	1/21/2013	102.71	3713.37
	3816.08	7/22/2013	Dry	
MW-E	3816.31	1/21/2013	102.52	3713.79
	3816.31	7/22/2013	Dry	
MW-F	3816.69	1/21/2013	102.16	3714.53
	3816.69	7/22/2013	Dry	
MW-G	3818.23	1/21/2013	102.14	3716.09
	3818.23	7/22/2013	Dry	
MW-H	3816.74	1/21/2013	102.59	3714.15
	3816.74	7/22/2013	Dry	
MW-I	3816.94	1/21/2013	102.14	3714.80
	3816.94	7/22/2013	Dry	
MW-J	3817.66	1/21/2013	100.13	3717.53
	3817.66	7/22/2013	103.40	3714.26
MW-L	3818.35	1/21/2013	101.90	3716.45
	3818.35	7/22/2013	105.75	3712.60
MW-M	3817.88	1/21/2013	99.90	3717.98
	3817.88	7/22/2013	102.89	3714.99
MW-N	3817.7	1/21/2013	102.50	3715.20
	3817.7	7/22/2013	107.27	3710.43
MW-O	3814.74	1/21/2013	105.35	3709.39
	3814.74	7/22/2013	Dry	
MW-P	3814.24	1/21/2013	103.90	3710.34
	3814.24	7/22/2013	112.72	3701.52
MW-Q	3814.23	1/21/2013	100.64	3713.59
	3814.23	7/22/2013	107.82	3706.41
MW-R	3810.89	1/21/2013	101.10	3709.79
	3810.89	7/22/2013	111.79	3699.10

TABLE 1

**2013 FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>
MW-S	3816.52	1/21/2013	97.91	3718.61
	3816.52	7/22/2013	100.96	3715.56
MW-T	3816.71	1/21/2013	102.20	3714.51
	3816.71	7/22/2013	107.70	3709.01
MW-U	3814.94	1/21/2013	102.60	3712.34
	3814.94	7/22/2013	110.61	3704.33
MW-V	3815.04	1/21/2013	103.40	3711.64
	3815.04	7/22/2013	111.58	3703.46
MW-W	3815.09	1/21/2013	104.11	3710.98
	3815.09	7/22/2013	112.89	3702.20
MW-D2	3815.93	1/21/2013	102.80	3713.13
	3815.93	7/22/2013	110.01	3705.92

Notes:

1. Wells with treatment equipment present were not gauged.
2. Well was converted to a biosparge well.
3. Wells had not been surveyed as of gauging date.
4. famsl = feet above mean sea level.

TABLE 2

2013 GROUNDWATER ANALYTICAL RESULTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM

<i>Sample Location</i>	<i>Date of Measurement</i>	<i>Benzene (mg/L)</i>	<i>Toluene (mg/L)</i>	<i>Ethylbenzene (mg/L)</i>	<i>Total Xylenes (mg/L)</i>	<i>TPH-GRO (mg/L)</i>	<i>TPH-DRO (mg/L)</i>
NMWQCC Standard		0.01	0.75	0.75	0.62	1.5	1.5
BW-1	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	<0.00182	<0.00200	<0.00123	<0.00100	<1.44	<1.44
BW-2	1/23/2013	0.0503	0.0128	<0.00100	<0.00100	<1.50	<1.50
	7/24/2013	0.00289	<0.00200	<0.00100	<0.00100	<1.41	<1.41
BW-3	1/23/2013	0.00283	0.00313	<0.00100	<0.00100	<1.50	<1.50
	7/24/2013	0.209	0.0797	<0.00640	0.0177	<1.44	<1.44
MW-B	1/23/2013	2.41	<0.0500	<0.0250	<0.0250	4.97	<1.50
	7/23/2013	Not Sampled - Dry					
MW-C	1/23/2013	0.00434	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-D	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-E	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-F	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-G	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-H	1/23/2013	5.93	0.446	0.0373	0.0528	7.55	<1.50
	7/23/2013	Not Sampled - Dry					
MW-I	1/23/2013	0.338	0.00613	<0.00100	0.00232	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-J	1/22/2013	Not Sampled - Insufficient Water					
	7/23/2013	0.00100	0.00200	0.00100	0.00100	1.44	1.44

TABLE 2

**2013 GROUNDWATER ANALYTICAL RESULTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

MW-L	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41
MW-M	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.44	<1.44
MW-N	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00351	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-O	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-P	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-Q	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	Not Sampled - Dry					
MW-R	1/23/2013	<0.00100	<0.00200	<0.00100	0.00267	<1.50	<1.50
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41
MW-S	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
DUP1	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42
Dup 1	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42
MW-T	1/23/2013	10.5	<0.100	0.104	0.195	12.2	<1.50
	7/24/2013	13.1	0.168	0.284	0.519	21.3	<1.43
MW-U	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42
MW-V	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/24/2013	0.0105	<0.00200	<0.00100	<0.00100	<1.45	<1.45
MW-W	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.46	<1.46
MW-D2	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	7/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50

Notes:

1. mg/L - milligrams per liter
2. TPH - total petroleum hydrocarbons
3. TPH GRO - total petroleum hydrocarbons gasoline range organic (C₆-C₁₀)
4. TPH DRO - total petroleum hydrocarbons diesel range organic (>C₁₀-C₂₈)
5. NMWQCC HHSGR - New Mexico Water Quality Control Commission Human Health for groundwater (NMAC 20.6.2.3103A)
6. J - estimated value which is greater than or equal to the method detection limit and less than the limit of quantitation (LOQ) or reporting limit
7. * - resampled on 05/16/2007
8. ** - resampled on 07/01/2008

Appendix A

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-1	3817.26	10/1/1998		65.86		3751.4		
MW-1	3817.26	1/6/2000		66.56		3750.7		
MW-1	3817.26	10/5/2001		68.02		3749.24		
MW-1	3817.26	10/17/2001		68.21		3749.05		
MW-1	3817.26	2/12/2002		69.57		3747.69		
MW-2	3816.07	10/1/1998		64.75		3751.32		
MW-2	3816.07	1/6/2000		65.45		3750.62		
MW-2	3816.07	10/5/2001		66.97		3749.1		
MW-2	3816.07	10/17/2001		67.33		3748.74		
MW-2	3816.07	2/12/2002		68.69		3747.38		
MW-3	3817.41	10/1/1998		65.83		3751.58		
MW-3	3817.41	1/6/2000		66.56		3750.85		
MW-3	3817.41	10/5/2001		68.03		3749.38		
MW-3	3817.41	10/17/2001		68.37		3749.04		
MW-3	3817.41	2/12/2002		69.72		3747.69		
MW-4	3816.86	10/2/1998		64.91		3751.93		
MW-4	3816.86	1/6/2000		65.65	0.04	3751.19		
MW-4	3816.86	3/31/2000		64.85	0.03	3751.99		
MW-4	3816.86	10/5/2001	67.18	67.22	0.04	3749.62		
MW-4	3816.86	10/17/2001	67.82	67.83	0.01	3749.01		
MW-4	3816.86	2/12/2002		-	trace	-		
MW-5	3816.23	1/27/1999		65.24		3750.99		

TABLE 1

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LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-5	3816.23	1/6/2000		65.96		3750.27		
MW-5	3816.23	10/5/2001		67.44		3748.79		
MW-5	3816.23	10/17/2001		67.69		3748.54		
MW-5	3816.23	2/12/2002		69.07		3747.16		
MW-6	3817.51	1/27/1999		65.36		3752.15		
MW-6	3817.51	1/6/2000		66.07		3751.44		
MW-6	3817.51	10/5/2001		67.54		3749.97		
MW-6	3817.51	10/17/2001		67.9		3749.61		
MW-6	3817.51	2/12/2002		69.21		3748.3		
MW-7	3816.25	3/24/1999		63.28		3752.97		
MW-7	3816.25	1/6/2000		63.97		3752.28		
MW-7	3816.25	10/5/2001		65.46		3750.79		
MW-7	3816.25	10/17/2001		65.98		3750.27		
MW-7	3816.25	2/12/2002		67.15		3749.1		
MW-8	3816.38	3/24/1999		66.09		3750.29		
MW-8	3816.38	1/6/2000		66.78		3749.6		
MW-8	3816.38	10/5/2001		68.31		3748.07		
MW-8	3816.38	10/17/2001		68.45		3747.93		
MW-8	3816.38	2/12/2002		69.82		3746.56		
MW-9	3815.72	3/24/1999		65.55		3750.14		
MW-9	3815.72	1/6/2000		66.24		3749.45		
MW-9	3815.72	10/5/2001		67.8		3747.89		

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-9	3815.72	10/17/2001		68.08		3747.61		
MW-9	3815.72	2/12/2002		69.45		3746.24		
MW-10	3815.74	3/31/2000	66.45	66.78	0.33			
MW-10	3815.74	10/5/2001	64.45	74.19	9.74			
MW-10	3815.74	10/17/2001	65.33	75.46	10.13			
MW-10	3815.74	2/12/2002						
WW-1		10/5/2001		62.22				Static
WW-1		10/17/2001		85.10				Not static
WW-1		2/12/2002		64.35				Static
WW-2		10/5/2001		62.51				Static
WW-2		10/7/2001		82.70				Not static
WW-2		2/12/2002		64.90				Static
WW-3		10/5/2001		65.00				Static
WW-3		10/17/2001		85.45				Not static
WW-3		2/12/2002		67.20				Static
WW-4		10/5/2001		67.55				Static
WW-4		10/17/2001		69.42				Not static
WW-4		2/12/2002		69.30				Static
BW-1	3816.14	6/16/2005		86.75		3729.39	128.04	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
BW-1	3816.14	7/27/2005		92.32		3723.82	128.04	
BW-1	3816.14	9/21/2005		90.41		3725.73	128.04	
BW-1	3816.14	12/9/2005		88.38		3727.76	128.04	
BW-1	3816.14	5/9/2007		N/A ¹			128.04	
BW-1	3816.14	6/13/2008		94.25		3721.89	128.04	
BW-1	3816.14	9/17/2008		97.51		3718.63	128.04	
BW-1	3816.14	1/26/2009		91.08		3725.06	128.04	
BW-1	3816.14	7/9/2009		98.83		3717.31	128.04	
BW-1	3816.14	1/25/2010		95.08		3721.06	118.80	
BW-1	3816.14	7/6/2010		100.81		3715.33	118.80	
BW-1	3816.14	1/25/2011		98.03		3718.11		
BW-1	3816.14	7/11/2011		107.50		3708.64		9.47
BW-1	3816.14	10/15/2012		110.31		3705.83		
BW-1	3816.14	1/21/2013		102.92		3713.22		
BW-1	3816.14	7/22/2013		109.41		3706.73		
BW-2	3816.57	6/16/2005		86.38		3730.19	123.04	
BW-2	3816.57	7/27/2005		90.70		3725.87	123.04	
BW-2	3816.57	9/21/2005		89.99		3726.58	123.04	
BW-2	3816.57	12/9/2005		88.21		3728.36	123.04	
BW-2	3816.57	5/9/2007		N/A ¹			123.04	
BW-2	3816.57	6/13/2008		95.16		3721.41	123.04	
BW-2	3816.57	9/17/2008		96.92		3719.65	123.04	
BW-2	3816.57	1/26/2009		91.13		3725.44	123.04	
BW-2	3816.57	7/9/2009		98.47		3718.10	123.04	
BW-2	3816.57	7/6/2010		100.10		3716.47	122.16	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
BW-2	3816.57	1/27/2011		97.76		3718.81		
BW-2	3816.57	7/11/2011		107.91		3708.66		10.15
BW-2	3816.57	10/15/2012		109.20		3707.37	123.79	
BW-2	3816.57	1/21/2013		102.53		3714.04		
BW-2	3816.57	7/22/2013		108.42		3708.15		
BW-3	3815.82	6/16/2005		87.39		3728.43	123.09	
BW-3	3815.82	7/27/2005		92.72		3723.10	123.09	
BW-3	3815.82	9/22/2005		91.07		3724.75	123.09	
BW-3	3815.82	12/9/2005		88.46		3727.36	123.09	
BW-3	3815.82	5/9/2007		N/A1			123.09	
BW-3	3815.82	9/17/2008		98.57		3717.25	123.09	
BW-3	3815.82	1/26/2009		92.44		3723.38	123.09	
BW-3	3815.82	7/9/2009		100.44		3715.38	123.09	
BW-3	3815.82	7/6/2010		101.96		3713.86	120.30	
BW-3	3815.82	1/25/2011		Not Gauged-Junk				
BW-3	3815.82	7/11/2011		108.64		3707.18		
BW-3	3815.82	10/15/2012		111.87		3703.95		
BW-3	3815.82	1/21/2013		103.38		3712.44		
BW-3	3815.82	7/22/2013		110.71		3705.11		
MW-A	3816.04	6/16/2005		86.75		3729.29	100.51	
MW-A	3816.04	7/25/2005		DRY			100.51	
MW-A	3816.04	9/19/2005		90.41		3725.63	100.51	
MW-A	3816.04	12/5/2005		88.38		3727.66	100.51	
MW-A	3816.04	5/9/2007		DRY			100.51	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-A	3816.04	7/1/2008		Collapsed				
MW-A	3816.04	7/6/2010		Collapsed			99.03	
MW-A	3816.04	1/25/2011		Collapsed				
MW-A	3816.04	7/11/2011		Collapsed				
MW-A	3816.04	10/15/2012		Collapsed				
MW-A	3816.04	1/21/2013		Collapsed				
MW-A	3816.04	7/22/2013		Collapsed				
MW-B	3816.09	6/16/2005		87.15		3728.94	108.11	
MW-B	3816.09	7/25/2005		92.55		3723.54	108.11	
MW-B	3816.09	9/19/2005		90.82		3725.27	108.11	
MW-B	3816.09	12/5/2005		88.73		3727.36	108.11	
MW-B	3816.09	5/9/2007		91.78		3724.31	108.11	
MW-B	3816.09	10/2/2007		92.94		3723.15	108.11	
MW-B	3816.09	6/13/2008		95.05		3721.04	108.11	
MW-B	3816.09	9/15/2008		98.39		3717.70	108.11	
MW-B	3816.09	1/26/2009		91.36		3724.73	108.11	
MW-B	3816.09	7/9/2009		99.76		3716.33	108.11	
MW-B	3816.09	1/25/2010		95.21		3720.88	107.65	
MW-B	3816.09	7/6/2010		101.50		3714.59	107.65	
MW-B	3816.09	1/27/2011		98.36		3717.73		
MW-B	3816.09	7/11/2011		DRY				
MW-B	3816.09	10/15/2012		DRY			111.32	
MW-B	3816.09	1/21/2013		103.00		3713.09		
MW-B	3816.09	7/22/2013		Dry				

TABLE 1

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LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-C	3817.04	6/15/2005		87.83		3729.21	108.05	
MW-C	3817.04	7/25/2005		92.53		3724.51	108.05	
MW-C	3817.04	9/19/2005		91.54		3725.50	108.05	
MW-C	3817.04	12/5/2005		89.50		3727.54	108.05	
MW-C	3817.04	5/9/2007		92.56		3724.48	108.05	
MW-C	3817.04	10/2/2007		93.66		3723.38	108.05	
MW-C	3817.04	6/13/2008		95.21		3721.83	108.05	
MW-C	3817.04	9/15/2008		98.75		3718.29	108.05	
MW-C	3817.04	1/26/2009		92.10		3724.94	108.05	
MW-C	3817.04	7/9/2009		99.78		3717.26	108.05	
MW-C	3817.04	1/25/2010		96.09		3720.95	106.35	
MW-C	3817.04	7/6/2010		101.78		3715.26	106.35	
MW-C	3817.04	1/27/2011		98.92		3718.12		
MW-C	3817.04	7/11/2011		DRY				
MW-C	3817.04	10/15/2012		DRY				
MW-C	3817.04	1/21/2013		103.93		3713.11		
MW-C	3817.04	7/22/2013		Dry				
MW-D	3816.08	3/2/2005		82.68		3733.40	107.92	
MW-D	3816.08	9/19/2005		90.48		3725.60	107.92	
MW-D	3816.08	12/5/2005		88.44		3727.64	107.92	
MW-D	3816.08	5/9/2007		91.49		3724.59	107.92	
MW-D	3816.08	9/27/2007		92.62		3723.46	107.92	
MW-D	3816.08	6/13/2008		94.43		3721.65	107.92	
MW-D	3816.08	9/15/2008		97.49		3718.59	107.92	
MW-D	3816.08	1/26/2009		91.08		3725.00	107.92	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-D	3816.08	7/9/2009		98.82		3717.26	107.92	
MW-D	3816.08	1/25/2010		95.14		3720.94	106.90	
MW-D	3816.08	7/6/2010		100.57		3715.51	106.90	
MW-D	3816.08	1/25/2011		97.68		3718.40		
MW-D	3816.08	7/11/2011		DRY				
MW-D	3816.08	10/15/2012		DRY				
MW-D	3816.08	1/21/2013		102.71		3713.37		
MW-D	3816.08	7/22/2013		Dry				
MW-E	3816.31	9/19/2005		90.39		3725.92	107.99	
MW-E	3816.31	12/5/2005		88.40		3727.91	107.99	
MW-E	3816.31	5/9/2007		91.47		3724.84	107.99	
MW-E	3816.31	9/27/2007		92.60		3723.71	107.99	
MW-E	3816.31	7/1/2008		95.54		3720.77	107.99	
MW-E	3816.31	9/15/2008		97.21		3719.10	107.99	
MW-E	3816.31	1/26/2009		91.11		3725.20	107.99	
MW-E	3816.31	7/9/2009		98.81		3717.50	107.99	
MW-E	3816.31	1/25/2010		95.20		3721.11	107.01	
MW-E	3816.31	7/6/2010		100.37		3715.94	107.01	
MW-E	3816.31	1/26/2011		97.50		3718.81		
MW-E	3816.31	7/11/2011		DRY		DRY		
MW-E	3816.31	10/15/2012		DRY				
MW-E	3816.31	1/21/2013		102.52		3713.79		
MW-E	3816.31	7/22/2013		Dry				
MW-F	3816.69	9/19/2005		89.86		3726.83	108.09	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-F	3816.69	12/5/2005		88.09		3728.60	108.09	
MW-F	3816.69	5/9/2007		91.21		3725.48	108.09	
MW-F	3816.69	9/27/2007		92.26		3724.43	108.09	
MW-F	3816.69	7/1/2008		93.93		3722.76	108.09	
MW-F	3816.69	9/15/2008		96.49		3720.20	108.09	
MW-F	3816.69	1/26/2009		91.10		3725.59	108.09	
MW-F	3816.69	7/9/2009		98.00		3718.69	108.09	
MW-F	3816.69	1/25/2010		94.89		3721.80	106.70	
MW-F	3816.69	7/6/2010		99.50		3717.19	106.70	
MW-F	3816.69	1/25/2011		97.20		3719.49		
MW-F	3816.69	7/11/2011		106.29		3710.40		9.09
MW-F	3816.69	10/15/2012		DRY				
MW-F	3816.69	1/21/2013		102.16		3714.53		
MW-F	3816.69	7/22/2013		Dry				
MW-G	3818.23	9/19/2005		89.46		3728.77	108.05	
MW-G	3818.23	12/5/2005		88.18		3730.05	108.05	
MW-G	3818.23	5/9/2007		91.19		3727.04	108.05	
MW-G	3818.23	10/1/2007		92.08		3726.15	108.05	
MW-G	3818.23	7/1/2008		95.54		3722.69	108.05	
MW-G	3818.23	9/15/2008		95.70		3722.53	108.05	
MW-G	3818.23	1/26/2009		91.48		3726.75	108.05	
MW-G	3818.23	7/9/2009		96.72		3721.51	108.05	
MW-G	3818.23	1/25/2010		95.01		3723.22	106.55	
MW-G	3818.23	7/6/2010		98.50		3719.73	106.55	
MW-G	3818.23	1/25/2011		97.35		3720.88		

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-G	3818.23	7/11/2011		103.60		3714.63		6.25
MW-G	3818.23	10/15/2012		DRY				
MW-G	3818.23	1/21/2013		102.14		3716.09		
MW-G	3818.23	7/22/2013		Dry				
MW-H	3816.74	6/15/2005		86.46		3730.28	108.10	
MW-H	3816.74	7/25/2005		91.05		3725.69	108.10	
MW-H	3816.74	9/19/2005		90.15		3726.59	108.10	
MW-H	3816.74	12/5/2005		88.30		3728.44	108.10	
MW-H	3816.74	5/9/2007		91.30		3725.44	108.10	
MW-H	3816.74	10/2/2007		92.37		3724.37	108.10	
MW-H	3816.74	6/13/2008		93.94		3722.80	108.10	
MW-H	3816.74	9/15/2008		97.28		3719.46	108.10	
MW-H	3816.74	1/26/2009		91.14		3725.60	108.10	
MW-H	3816.74	7/9/2009		98.30		3718.44	108.10	
MW-H	3816.74	1/25/2010		94.91		3721.83	105.53	
MW-H	3816.74	7/6/2010		101.28		3715.46	105.53	
MW-H	3816.74	1/27/2011		97.87		3718.87		
MW-H	3816.74	7/11/2011		DRY				
MW-H	3816.74	10/15/2012		DRY				
MW-H	3816.74	1/21/2013		102.59		3714.15		
MW-H	3816.74	7/22/2013		Dry				
MW-I	3816.94	6/15/2005		85.90		3731.04	108.07	
MW-I	3816.94	7/25/2005		89.94		3727.00	108.07	
MW-I	3816.94	9/19/2005		89.50		3727.44	108.07	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-I	3816.94	12/5/2005		87.88		3729.06	108.07	
MW-I	3816.94	5/9/2007		90.83		3726.11	108.07	
MW-I	3816.94	10/1/2007		91.82		3725.12	108.07	
MW-I	3816.94	6/13/2008		93.03		3723.91	108.07	
MW-I	3816.94	9/15/2008		96.38		3720.56	108.07	
MW-I	3816.94	1/26/2009		90.78		3726.16	108.07	
MW-I	3816.94	7/9/2009		97.19		3719.75	108.07	
MW-I	3816.94	1/25/2010		94.52		3722.42	103.79	
MW-I	3816.94	7/6/2010		99.29		3717.65	103.79	
MW-I	3816.94	1/27/2011		97.39		3719.55		
MW-I	3816.94	7/11/2011		106.76		3710.18		9.37
MW-I	3816.94	10/15/2012		DRY				
MW-I	3816.94	1/21/2013		102.14		3714.80		
MW-I	3816.94	7/22/2013		Dry				
MW-J	3817.66	9/19/2005		87.24		3730.42	108.05	
MW-J	3817.66	12/5/2005		86.23		3731.43	108.05	
MW-J	3817.66	5/9/2007		89.07		3728.59	108.05	
MW-J	3817.66	10/1/2007		89.86		3727.80	108.05	
MW-J	3817.66	6/13/2008		90.51		3727.15	108.05	
MW-J	3817.66	9/15/2008		93.44		3724.22	108.05	
MW-J	3817.66	1/26/2009		89.58		3728.08	108.05	
MW-J	3817.66	7/9/2009		93.95		3723.71	108.05	
MW-J	3817.66	1/25/2010		93.03		3724.63	105.97	
MW-J	3817.66	7/6/2010		96.05		3721.61	105.97	
MW-J	3817.66	1/25/2011		95.59		3722.07		

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-J	3817.66	7/11/2011		100.22		3717.44		4.63
MW-J	3817.66	10/15/2012		103.82		3713.84		Insufficient water
MW-J	3817.66	1/21/2013		100.13		3717.53		
MW-J	3817.66	7/22/2013		103.40		3714.26		
MW-L	3818.35	9/19/2005		86.95		3731.40	108.07	
MW-L	3818.35	12/5/2005		87.80		3730.55	108.07	
MW-L	3818.35	5/9/2007		90.70		3727.65	108.07	
MW-L	3818.35	10/1/2007		91.54		3726.81	108.07	
MW-L	3818.35	6/13/2008		92.29		3726.06	108.07	
MW-L	3818.35	9/15/2008		95.36		3722.99	108.07	
MW-L	3818.35	1/26/2009		91.03		3727.32	108.07	
MW-L	3818.35	7/9/2009		95.76		3722.59	108.07	
MW-L	3818.35	1/25/2010		94.57		3723.78	107.20	
MW-L	3818.35	7/6/2010		98.03		3720.32	107.20	
MW-L	3818.35	1/27/2011		97.60		3720.75		
MW-L	3818.35	7/11/2011		102.58		3715.77		4.98
MW-L	3818.35	10/15/2012		106.09		3712.26		Insufficient water
MW-L	3818.35	1/21/2013		101.90		3716.45		
MW-L	3818.35	7/22/2013		105.75		3712.60		
MW-M	3817.88	9/19/2005		86.95		3730.93	108.04	
MW-M	3817.88	12/5/2005		86.06		3731.82	108.04	
MW-M	3817.88	5/9/2007		88.89		3728.99	108.04	
MW-M	3817.88	10/1/2007		89.63		3728.25	108.04	
MW-M	3817.88	6/13/2008		90.18		3727.70	108.04	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-M	3817.88	9/15/2008		92.97		3724.91	108.04	
MW-M	3817.88	1/26/2009		89.49		3728.39	108.04	
MW-M	3817.88	7/9/2009		93.50		3724.38	108.04	
MW-M	3817.88	1/25/2010		92.89		3724.99	108.13	
MW-M	3817.88	7/6/2010		95.53		3722.35	108.13	
MW-M	3817.88	1/25/2011		95.35		3722.53		
MW-M	3817.88	7/11/2011		99.53		3718.35		4.18
MW-M	3817.88	10/15/2012		103.15		3714.73		
MW-M	3817.88	1/21/2013		99.90		3717.98		
MW-M	3817.88	7/22/2013		102.89		3714.99		
MW-N	3817.7	6/16/2005		86.25		3731.45	108.08	
MW-N	3817.7	7/25/2005		89.85		3727.85	108.08	
MW-N	3817.7	9/19/2005		89.73		3727.97	108.08	
MW-N	3817.7	12/5/2005		88.19		3729.51	108.08	
MW-N	3817.7	5/9/2007		91.17		3726.53	108.08	
MW-N	3817.7	10/2/2007		92.12		3725.58	108.08	
MW-N	3817.7	6/13/2008		93.14		3724.56	108.08	
MW-N	3817.7	9/15/2008		96.44		3721.26	108.08	
MW-N	3817.7	1/26/2009		91.24		3726.46	108.08	
MW-N	3817.7	7/9/2009		97.16		3720.54	108.08	
MW-N	3817.7	1/25/2010		94.94		3722.76	108.67	
MW-N	3817.7	7/6/2010		99.07		3718.63	108.67	
MW-N	3817.7	1/26/2011		97.22		3720.48		
MW-N	3817.7	7/11/2011		104.40		3713.30		7.18
MW-N	3817.7	10/15/2012		107.82		3709.88		Insufficient water

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-N	3817.7	1/21/2013		102.50		3715.20		
MW-N	3817.7	7/22/2013		107.27		3710.43		
MW-O	3814.74	7/25/2005		96.58		3718.16	113.05	
MW-O	3814.74	9/19/2005		93.71		3721.03	113.05	
MW-O	3814.74	12/5/2005		90.80		3723.94	113.05	
MW-O	3814.74	5/9/2007		93.97		3720.77	113.05	
MW-O	3814.74	10/2/2007		95.44		3719.30	113.05	
MW-O	3814.74	6/13/2008		92.82		3721.92	113.05	
MW-O	3814.74	9/15/2008		102.30		3712.44	113.05	
MW-O	3814.74	1/26/2009		92.41		3722.33	113.05	
MW-O	3814.74	7/9/2009		103.69		3711.05	113.05	
MW-O	3814.74	1/25/2010		97.04		3717.70	112.47	
MW-O	3814.74	7/6/2010		104.52		3710.22	112.47	
MW-O	3814.74	1/27/2011		100.46		3714.28		
MW-O	3814.74	7/11/2011		DRY				
MW-O	3814.74	10/15/2012		DRY				
MW-O	3814.74	1/21/2013		105.35		3709.39		
MW-O	3814.74	7/22/2013		Dry				
MW-P	3814.24	6/15/2005		88.88		3725.36	113.05	
MW-P	3814.24	7/25/2005		96.83		3717.41	113.05	
MW-P	3814.24	9/19/2005		92.73		3721.51	113.05	
MW-P	3814.24	12/5/2005		89.84		3724.40	113.05	
MW-P	3814.24	5/9/2007		93.07		3721.17	113.05	
MW-P	3814.24	9/27/2007		94.58		3719.66	113.05	

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**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-P	3814.24	6/13/2008		98.30		3715.94	113.05	
MW-P	3814.24	9/15/2008		101.73		3712.51	113.05	
MW-P	3814.24	1/26/2009		91.62		3722.62	113.05	
MW-P	3814.24	7/9/2009		103.99		3710.25	113.05	
MW-P	3814.24	1/25/2010		96.05		3718.19	112.90	
MW-P	3814.24	7/6/2010		104.93		3709.31	112.90	
MW-P	3814.24	1/27/2011		99.60		3714.64		
MW-P	3814.24	7/11/2011		111.72		3702.52		12.12
MW-P	3814.24	10/15/2012		DRY				
MW-P	3814.24	1/21/2013		103.90		3710.34		
MW-P	3814.24	7/22/2013		112.72		3701.52		
MW-Q	3814.23	7/25/2005		96.81		3717.42	108.07	
MW-Q	3814.23	9/19/2005		90.00		3724.23	108.07	
MW-Q	3814.23	12/5/2005		87.53		3726.70	108.07	
MW-Q	3814.23	5/9/2007		90.43		3723.80	108.07	
MW-Q	3814.23	9/27/2007		92.23		3722.00	108.07	
MW-Q	3814.23	6/13/2008		98.61		3715.62	108.07	
MW-Q	3814.23	9/15/2008		98.08		3716.15	108.07	
MW-Q	3814.23	1/26/2009		90.52		3723.71	108.07	
MW-Q	3814.23	7/9/2009		103.51		3710.72	108.07	
MW-Q	3814.23	1/25/2010		94.13		3720.10	108.41	
MW-Q	3814.23	7/6/2010		101.92		3712.31	108.41	
MW-Q	3814.23	1/27/2011		97.60		3716.63		
MW-Q	3814.23	7/11/2011		DRY				
MW-Q	3814.23	10/15/2012		DRY				

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-Q	3814.23	1/21/2013		100.64		3713.59		
MW-Q	3814.23	7/22/2013		107.82		3706.41		
MW-R	3810.89	9/19/2005		91.19		3719.70	152.93	
MW-R	3810.89	12/5/2005		87.71		3723.18	152.93	
MW-R	3810.89	5/9/2007		90.83		3720.06	152.93	
MW-R	3810.89	9/27/2007		92.83		3718.06	152.93	
MW-R	3810.89	6/13/2008		98.18		3712.71	152.93	
MW-R	3810.89	9/15/2008		100.76		3710.13	152.93	
MW-R	3810.89	1/26/2009		88.57		3722.32	152.93	
MW-R	3810.89	7/9/2009		105.25		3705.64	152.93	
MW-R	3810.89	1/25/2010		93.88		3717.01	152.29	
MW-R	3810.89	7/6/2010		103.95		3706.94	152.29	
MW-R	3810.89	1/26/2011		97.58		3713.31		
MW-R	3810.89	7/11/2011		108.64		3702.25		11.06
MW-R	3810.89	10/15/2012		114.39		3696.50		
MW-R	3810.89	1/21/2013		101.10		3709.79		
MW-R	3810.89	7/22/2013		111.79		3699.10		
MW-S	3816.52	5/9/2007		87.07		3729.45	122.73	
MW-S	3816.52	10/1/2007		87.85		3728.67	122.73	
MW-S	3816.52	6/13/2008		88.58		3727.94	122.73	
MW-S	3816.52	9/15/2008		91.27		3725.25	122.73	
MW-S	3816.52	1/26/2009		87.74		3728.78	122.73	
MW-S	3816.52	7/9/2009		91.86		3724.66	122.73	
MW-S	3816.52	1/25/2010		91.11		3725.41	122.77	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-S	3816.52	7/6/2010		93.92		3722.60	122.77	
MW-S	3816.52	1/25/2011		93.60		3722.92		
MW-S	3816.52	7/11/2011		98.00		3718.52		4.40
MW-S	3816.52	10/15/2012		101.41		3715.11		
MW-S	3816.52	1/21/2013		97.91		3718.61		
MW-S	3816.52	7/22/2013		100.96		3715.56		
MW-T	3816.71	5/9/2007		N/A ²		N/A ²		
MW-T	3816.71	7/7/2008		94.43		3722.28		
MW-T	3816.71	9/15/2008		96.81		3719.90		
MW-T	3816.71	1/26/2009		92.39		3724.32	122.17	
MW-T	3816.71	7/9/2009		97.92		3718.79	122.17	
MW-T	3816.71	7/6/2010		99.58		3717.13	122.17	
MW-T	3816.71	1/27/2011		97.69		3719.02	122.17	
MW-T	3816.71	7/11/2011		105.15		3711.56	122.17	7.46
MW-T	3816.71	10/15/2012		105.43		3711.28		
MW-T	3816.71	1/21/2013		102.20		3714.51		
MW-T	3816.71	7/22/2013		107.70		3709.01		
MW-U	3814.94	5/9/2007		91.76		3723.18	123.10	
MW-U	3814.94	9/27/2007		93.09		3721.85	123.10	
MW-U	3814.94	6/13/2008		96.34		3718.60	123.10	
MW-U	3814.94	9/15/2008		99.07		3715.87	123.10	
MW-U	3814.94	1/26/2009		91.19		3723.75	123.10	
MW-U	3814.94	7/9/2009		101.27		3713.67	123.10	
MW-U	3814.94	1/25/2010		95.12		3719.82	123.09	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-U	3814.94	7/6/2010		102.33		3712.61	123.09	
MW-U	3814.94	1/25/2011		98.38		3716.56		
MW-U	3814.94	7/11/2011		109.63		3705.31		11.25
MW-U	3814.94	10/15/2012		112.01		3702.93		
MW-U	3814.94	1/21/2013		102.60		3712.34		
MW-U	3814.94	7/22/2013		110.61		3704.33		
MW-V	3815.04	5/9/2007		92.17		3722.87	122.79	
MW-V	3815.04	9/27/2007		93.48		3721.56	122.79	
MW-V	3815.04	6/13/2008		96.14		3718.90	122.79	
MW-V	3815.04	9/15/2008		99.61		3715.43	122.79	
MW-V	3815.04	1/26/2009		91.31		3723.73	122.79	
MW-V	3815.04	7/9/2009		101.25		3713.79	122.79	
MW-V	3815.04	1/25/2010		95.45		3719.59	122.84	
MW-V	3815.04	7/6/2010		102.80		3712.24	122.84	
MW-V	3815.04	1/25/2011		98.75		3716.29		
MW-V	3815.04	7/11/2011		109.80		3705.24		11.05
MW-V	3815.04	10/15/2012		113.00		3702.04		
MW-V	3815.04	1/21/2013		103.40		3711.64		
MW-V	3815.04	7/22/2013		111.58		3703.46		
MW-W	3815.09	5/9/2007		92.76		3722.33	122.05	
MW-W	3815.09	9/27/2007		94.06		3721.03	122.05	
MW-W	3815.09	6/13/2008		96.37		3718.72	122.05	
MW-W	3815.09	9/15/2008		100.23		3714.86	122.05	
MW-W	3815.09	1/26/2009		91.72		3723.37	122.05	

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
MW-W	3815.09	7/9/2009		101.58		3713.51	122.05	
MW-W	3815.09	1/25/2010		95.98		3719.11	133.15	
MW-W	3815.09	7/6/2010		103.41		3711.68	133.15	
MW-W	3815.09	1/26/2011		99.24		3715.85		
MW-W	3815.09	7/11/2011		110.25		3704.84		11.01
MW-W	3815.09	10/15/2012		114.13		3700.96		
MW-W	3815.09	1/21/2013		104.11		3710.98		
MW-W	3815.09	7/22/2013		112.89		3702.20		
MW-D2	3815.93	5/9/2007		91.63		N/A ³	204.00	
MW-D2	3815.93	9/26/2007		92.79				
MW-D2	3815.93	6/13/2008		94.93				
MW-D2	3815.93	9/15/2008		97.77		N/A ³	204.00	
MW-D2	3815.93	1/26/2009		91.12		3724.81	204.00	
MW-D2	3815.93	7/9/2009		99.30		3716.63	204.00	
MW-D2	3815.93	1/25/2010		95.27		3720.66	204.00	
MW-D2	3815.93	7/6/2010		100.93		3715.00	204.00	
MW-D2	3815.93	1/26/2011		97.76		3718.17		
MW-D2	3815.93	7/11/2011		109.10		3706.83		11.34
MW-D2	3815.93	10/15/2012		110.30		3705.63		
MW-D2	3815.93	1/21/2013		102.80		3713.13		
MW-D2	3815.93	7/22/2013		110.01		3705.92		

Notes:

1. Wells with treatment equipment present were not gauged.

2. Well was converted to a biosparge well.

8.53

4.18

TABLE 1

**CUMULATIVE SUMMARY OF FLUID LEVEL MEASUREMENTS
LOVINGTON PADDOCK GROUNDWATER REMEDIATION SITE
SECTION 1-T17S-R36E, LEA COUNTY, NM**

<i>Well ID</i>	<i>Elevation of TOC (famsl)</i>	<i>Date Measured</i>	<i>Depth to LNAPL (fbtoc)</i>	<i>Depth to Groundwater (fbtoc)</i>	<i>Thickness of LNAPL (ft.)</i>	<i>Elevation of Potentiometric Surface (famsl)</i>	<i>Total Depth (fbtoc)</i>	<i>Remarks</i>
3. Wells had not been surveyed as of gauging date.								
4. famsl = feet above mean sea level.								
5. Total depths of wells reported through 07/08/09 were calculated rather than measured.								
								12.12

Appendix B

TABLE 2

OF DISSOLVED-PHASE HYDROCARBONS IN GROUNDWATER
 ADDOCK GROUNDWATER REMEDIATION SITE
 ION 1-T17S-R36E, LEA COUNTY, NM

Sample Location	Date of Measurement	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH (mg/L)	Chlorides (mg/l)	TDS (mg/l)	Notes
NMWQCC HHSGR		0.01	0.75	0.75	0.62			100			
MW-1	11/5/1998	<0.001	<0.001	<0.001	<0.001						
MW-1	1/28/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5				
MW-1	1/6/2000	<0.005	<0.005	<0.005	<0.005						
MW-1	2/12/2002	<0.001	<0.001	<0.001	<0.001						
MW-2	11/5/1998	<0.001	<0.001	<0.001	<0.001						
MW-2	1/28/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5				
MW-2	1/6/2000	<0.005	<0.005	<0.005	<0.005						
MW-2	2/12/2002	0.032	<0.001	<0.001	<0.001						
MW-3	11/5/1998	0.147	<0.001	<0.001	<0.001						
MW-3	1/28/1999	0.102	<0.001	<0.001	<0.001	<0.100	<5				
MW-3	1/6/2000	0.593	<0.005	<0.005	<0.005						
MW-3	2/12/2002	0.557	<0.010	<0.010	<0.010						
MW-4	11/5/1998	0.882	0.808	0.085	0.214						
MW-4	1/28/1999	1.85	1.89	0.123	0.682	8.07	<5				
MW-4	1/6/2000	0.569	0.331	0.055	0.109						
MW-4	3/31/2000										
MW-4	2/12/2002	0.422	0.379	0.044	0.126						
MW-5	1/28/1999	2.73	0.001	0.002	0.12	5.18	<5				
MW-5	1/6/2000	3.1	<0.005	<0.005	0.057						
MW-5	2/12/2002	3.06	<0.020	<0.020	<0.020						
MW-6	1/28/1999	2.58	0.003	0.39	0.108	5.38	<5				
MW-6	1/6/2000	2.07	<0.005	0.439	0.087						
MW-6	2/12/2002	7.03	<0.100	0.7	0.152						

MW-7	3/25/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5		
MW-7	1/6/2000	<0.005	<0.005	<0.005	<0.005				
MW-7	2/12/2002	<0.005	<0.005	<0.005	<0.005				
MW-8	3/25/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5		
MW-8	1/6/2000	<0.005	<0.005	<0.005	<0.005				
MW-8	2/12/2002	<0.001	<0.001	<0.001	<0.001				
MW-9	3/25/1999	0.104	<0.001	<0.001	0.002	0.155	<5		
MW-9	4/14/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5		
MW-9	1/6/2000	<0.005	<0.005	<0.005	<0.005				
MW-9	2/12/2002	0.0474	<0.001	<0.001	<0.001				
MW-10	3/31/2000								
MW-10	2/12/2002								
WW-1	10/17/2001	<0.001	<0.001	<0.001	<0.001			655	1,790
WW-1	2/12/2002	<0.001	<0.001	<0.001	<0.001			77.5	
		<0.000	<0.000	<0.000	<0.000				
WW-2	10/17/2001	<0.001	<0.001	<0.001	<0.001			45.5	389
WW-2	2/12/2002								
		<0.000	<0.000	<0.000	<0.000				
WW-3	10/17/2001	<0.001	<0.001	<0.001	<0.001			102	478
WW-3	2/12/2002	<0.001	<0.001	<0.001	<0.001			125	
WW-4	10/17/2001	<0.001	<0.001	<0.001	<0.001			58	446
WW-4	2/12/2002	<0.001	<0.001	<0.001	<0.001			56.5	
AST WW	10/17/2001	<0.001	<0.001	<0.001	<0.001			43.6	396
AST WW	2/12/2002	<0.001	<0.001	<0.001	<0.001			39.4	
BW-1	6/16/2005	<0.005	<0.005	<0.005	<0.005				
BW-1	7/27/2005	<0.001	<0.001	<0.001	<0.001				
BW-1	9/21/2005	<0.001	<0.001	<0.001	<0.001				
BW-1	12/9/2005	0.184	0.24	0.0458	0.172				
BW-1	7/2/2008	0.0052	0.0018	0.0007	0.0018	0.027	0.077		
BW-1	9/18/2008	0.0022	0.0014	0.0007 J	0.0015 J	<0.02	0.076 J		
BW-1	2/11/2009	0.0004	0.0002 J	0.0002 J	<0.0006	<0.02	0.031		
BW-1	7/14/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.035 J	0.13		

BW-1	1/26/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.073 J
BW-1	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.070 J
BW-1	1/25/2011	<0.001	<0.0010	<0.0010	<0.0030	<0.0500	<0.050
BW-1	7/13/2011	<0.001	<0.0020	<0.0010	<0.0010	<1.5	<1.5
BW-1	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
BW-1	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
BW-1	7/23/2013	<0.00182	<0.00200	<0.00123	<0.00100	<1.44	<1.44
BW-2	6/16/2005	0.0039	0.0026	<0.001	0.001		
BW-2	7/27/2005	<0.001	<0.001	<0.001	<0.001		
BW-2	9/21/2005	<0.001	<0.001	<0.001	<0.001		
BW-2	12/9/2005	0.076	0.117	0.0272	0.0981		
BW-2	7/2/2008	0.0099	0.0025	0.0009	0.0022	0.043	0.11
BW-2	9/18/2008	0.0016	0.0011	0.0003 J	0.0009 J	<0.02	<0.033
BW-2	2/11/2009	0.0002 J	<0.0002	<0.0002	<0.0006	<0.02	<0.031
BW-2	7/16/2009	0.018	0.0002 J	0.0019	0.0009 J	0.087	0.64
BW-2	7/13/2010	0.13	0.038	0.0061	0.013	0.37	0.13
BW-2	1/27/2011	0.005	0.0028	<0.0010	<0.0030	<0.0500	0.025 J
BW-2	7/14/2011	0.00139	<0.0020	<0.0010	<0.0010	<1.5	<1.5
BW-2	10/17/2012	0.00695	0.00613	<0.00100	<0.00100	<1.50	<1.50
BW-2	1/23/2013	0.0503	0.0128	<0.00100	<0.00100	<1.50	<1.50
BW-2	7/24/2013	0.00289	<0.00200	<0.00100	<0.00100	<1.41	<1.41
BW-3	6/16/2005	4.25	0.11	<0.1	<0.1		
BW-3	7/27/2005	<0.001	<0.001	<0.001	<0.001		
BW-3	9/22/2005	<0.001	<0.001	<0.001	<0.001		
BW-3	12/9/2005	0.0508	0.0769	0.0182	0.0724		
BW-3	7/2/2008	0.0073	0.0024	0.001	0.0023	0.035	0.095
BW-3	9/18/2008	0.0029	0.0017	0.0004 J	0.0012 J	<0.02	<0.033
BW-3	2/11/2009	0.0003 J	0.0002 J	<0.0002	<0.0006	<0.02	<0.031
BW-3	7/16/2009	0.012	<0.0002	0.0016	0.0007 J	0.063	0.13
BW-3	1/27/2011						
BW-3	7/14/2011	0.0151	0.00774	0.00156	<0.0010	<1.5	<1.5
BW-3	10/17/2012	0.0215	0.00969	<0.00100	<0.00100	<1.50	<1.50
BW-3	1/23/2013	0.00283	0.00313	<0.00100	<0.00100	<1.50	<1.50
BW-3	7/24/2013	0.209	0.0797	<0.00640	0.0177	<1.44	<1.44
MW-A	6/16/2005	0.0348	0.0034	<0.001	<0.001		
MW-A	7/26/2005						

NS--Junk

NS--Dry

MW-A	9/20/2005								
MW-A	12/8/2005	0.0206	0.0887	0.0159	0.0858				
MW-A	7/1/2008								Casing Collapsed
MW-B	6/16/2005	0.713	0.0266	<0.02	<0.02				
MW-B	7/26/2005	0.546	0.917	0.0902	0.485				
MW-B	9/20/2005	0.312	0.454	0.0344	0.236				
MW-B	12/8/2005	0.103	0.172	<0.02	0.115				
MW-B	5/17/2007	0.086	0.0076	0.0005	0.003	0.3	0.088		
MW-B	10/2/2007	0.068	0.003	0.0003	0.0009			1.3	
MW-B	6/30/2008	0.67	0.025	0.0028	0.02	1.7	0.087**		
MW-B	9/17/2008	0.11	0.0041 J	0.0019 J	0.0081 J	0.34	<0.032		
MW-B	2/3/2009	0.041	0.0019	0.0004 J	0.0014 J	0.095	<0.056		
MW-B	7/15/2009	0.034	<0.0002	0.0013	<0.0006	0.14	0.09 J		
MW-B	1/27/2010	0.048	0.0032	<0.0002	0.0016 J	0.28	0.1		
MW-B	7/12/2010	0.077	0.0029	<0.0002	0.0016 J	0.26	0.063 J		
MW-B	1/27/2011	0.36	0.0096	<0.0010	0.0064	0.914	0.073		
MW-B	7/13/2011								NS--Dry
MW-B	10/15/2012								NS--Dry
MW-B	1/23/2013	2.41	<0.0500	<0.0250	<0.0250	4.97	<1.50		
MW-B	7/23/2013								NS--Dry
MW-C	6/15/2005	<0.005	<0.005	<0.005	<0.005				
MW-C	7/26/2005	0.414	0.543	0.0885	0.266				
MW-C	9/21/2005	0.239	0.317	0.0599	0.17				
MW-C	12/8/2005	0.0472	0.0741	0.0162	0.0592				
MW-C	5/17/2007	0.012	0.0049	0.0006	0.0019	0.062	0.095		
MW-C	10/2/2007	0.029	0.011	0.0011	0.003			<0.095	
MW-C	6/30/2008	0.019	0.0053	0.0011	0.0016	0.075	0.26		
MW-C	9/17/2008	0.0029	0.0014	0.0006 J	0.0015 J	0.025 J	0.068 J		
MW-C	2/5/2009	0.0086	0.0036	0.0007 J	0.0019 J	0.039 J	<0.032		
MW-C	7/14/2009	0.0071	0.0002 J	0.0014	0.0006 J	0.093	0.09 J		
MW-C	1/27/2010	0.0021	0.0003 J	<0.0002	<0.0006	<0.02	0.061 J		
MW-C	7/12/2010	0.0005 J	0.0004 J	<0.0002	<0.0006	0.033 J	0.096 J		
MW-C	1/27/2011	0.0025	0.0011	<0.0010	<0.0030	<0.0500	0.024 J		
MW-C	7/13/2011								NS--Dry
MW-C	10/15/2012								NS--Dry
MW-C	1/23/2013	0.00434	<0.00200	<0.00100	<0.00100	<1.50	<1.50		
MW-C	7/23/2013								NS--Dry

MW-D	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	<0.094	
MW-D	9/27/2007	<0.002	<0.002	<0.002	<0.006				
MW-D	6/30/2008	0.039	0.0073	0.0013	0.0013	0.095	0.13		
MW-D	9/16/2008	0.0013	0.001 J	0.0005 J	0.0012 J	<0.02	0.088 J		
MW-D	2/4/2009	0.0081	0.0023	0.0007 J	0.0019 J	0.034 J	<0.031		
MW-D	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.044 J	0.13		
MW-D	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.046 J		
MW-D	7/8/2010	<0.0002	0.0004 J	<0.0002	<0.0006	0.028 J	0.16		
MW-D	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		
MW-D	7/13/2011								NS--Dry
MW-D	10/15/2012								NS--Dry
MW-D	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		
MW-D	7/23/2013								NS--Dry
MW-E	6/15/2005	<0.005	<0.005	<0.005	<0.005			<0.094	
MW-E	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028		
MW-E	9/27/2007	<0.002	<0.002	<0.002	<0.006				
MW-E	7/1/2008	0.017	0.005	0.001	0.0011	0.049	0.041		
MW-E	9/17/2008	0.01	0.0059	0.0006 J	0.0034	0.055	<0.03		
MW-E	2/11/2009	0.0008 J	0.0004 J	0.0003 J	0.0007 J	<0.02	<0.031		
MW-E	7/15/2009	<0.0002	<0.0002	0.0002 J	<0.0006	0.044 J	0.33		
MW-E	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.062 J		
MW-E	7/8/2010	<0.0002	0.0004 J	<0.0002	<0.0006	<0.02	0.080 J		
MW-E	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		
MW-E	7/13/2011								NS--Dry
MW-E	10/15/2012								NS--Dry
MW-E	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		
MW-E	7/23/2013								NS--Dry
MW-F	6/15/2005	<0.005	<0.005	<0.005	<0.005			<0.096	
MW-F	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028		
MW-F	9/27/2007	<0.002	<0.002	<0.002	<0.006				
MW-F	7/2/2008	0.013	0.0036	0.0007	0.0008	0.039	0.044		
MW-F	9/17/2008	0.0074	0.0042	0.0005 J	0.0025 J	0.039 J	<0.031		
MW-F	2/11/2009	0.0004 J	0.0002 J	<0.0002	<0.0006	<0.02	<0.031		
MW-F	7/14/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.079 J		
MW-F	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.063 J		
MW-F	7/7/2010	0.0002 J	0.0003 J	<0.0002	<0.0006	<0.02	0.11		

MW-F	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		
MW-F	7/13/2011								NS--Insufficient water
MW-F	10/15/2012								NS--Dry
MW-F	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		
MW-F	7/23/2013								NS--Dry
MW-G	6/15/2005	<0.005	<0.005	<0.005	<0.005				
MW-G	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028		
MW-G	10/1/2007	<0.002	<0.002	<0.002	<0.006			<0.096	
MW-G	7/2/2008	0.0081	0.0025	0.0006	0.0006	0.026	<0.029		
MW-G	9/17/2008	0.024	0.013	0.001	0.0057	0.11	<0.031		
MW-G	2/11/2009	0.0012	0.0005 J	0.0003 J	0.0009 J	<0.02	<0.031		
MW-G	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.11		
MW-G	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.054 J		
MW-G	7/7/2010	0.0002 J	0.0003 J	<0.0002	<0.0006	<0.02	0.073 J		
MW-G	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		
MW-G	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5		
MW-G	10/15/2012								NS--Dry
MW-G	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		
MW-G	7/23/2013								NS--Dry
MW-H	6/15/2005	0.492	0.0219	<0.02	<0.02				
MW-H	7/26/2005	1.93	2.01	0.144	0.677				
MW-H	9/20/2005	2.35	2.54	0.188	0.932				
MW-H	12/6/2005	3.89	2.72	0.202	0.815				
MW-H	5/17/2007	0.73	0.082	0.0089	0.031	2.4	0.2		
MW-H	10/2/2007	0.2	0.037	0.0027	0.01			<0.094	
MW-H	7/2/2008	0.14	0.022	0.0018	0.006	0.36	0.036		
MW-H	9/17/2008	0.26	0.077	0.0032	0.022	0.86	0.036 J		
MW-H	2/3/2009	0.49	0.056	0.0075	0.022	1.2	0.078 J		
MW-H	7/15/2009	0.25	0.0018	0.027	0.012	0.64	0.068 J		
MW-H	1/27/2010	0.6	0.061	0.0025	0.017	1.7	0.16		
MW-H	7/13/2010	0.71	0.032	0.0016 J	0.0079 J	1.5	0.094 J		
MW-H	1/27/2011	4.6	0.28	0.0066	0.055	8.48	0.15		
MW-H	7/13/2011								NS--Dry
MW-H	10/15/2012								NS--Dry
MW-H	1/23/2013	5.93	0.446	0.0373	0.0528	7.55	<1.50		
MW-H	7/23/2013								NS--Dry

MW-I	6/15/2005	0.378	0.0124	<0.01	<0.01			
MW-I	7/26/2005	1.1	1.4	0.067	0.491			
MW-I	9/20/2005	0.555	0.801	0.0253	0.375			
MW-I	12/6/2005	0.496	0.611	0.0287	0.238			
MW-I	5/17/2007	0.067	0.032	0.0009	0.007	0.26	0.053	
MW-I	10/1/2007	0.033	0.01	<0.002	0.002			<0.097
MW-I	7/1/2008	0.086	0.034	0.0017	0.0059	0.3	0.063	
MW-I	9/17/2008	0.0042	0.0022	0.0007 J	0.0019 J	0.029 J	0.091 J	
MW-I	2/5/2009	0.012	0.0056	0.0005 J	0.0021 J	0.058	<0.031	
MW-I	7/14/2009	0.011	0.0002 J	0.004	0.001 J	0.091	0.1	
MW-I	1/27/2010	0.03	0.012	0.0004 J	0.0025 J	0.13	0.065 J	
MW-I	7/12/2010	0.041	0.0028	0.0003 J	0.0014 J	0.14	0.047 J	
MW-I	1/27/2011	0.0025	0.0018	<0.0010	<0.0030	0.0448 J	<0.050	
MW-I	7/14/2011	4.19	0.994	0.049	0.356	6.12	<1.5	
MW-I	10/15/2012							NS--Dry
MW-I	1/23/2013	0.338	0.00613	<0.00100	0.00232	<1.50	<1.50	
MW-I	7/23/2013							NS--Dry
MW-J	12/6/2005	<0.005	<0.005	<0.005	<0.005			
MW-J	5/15/2007	0.0015	<0.002	<0.002	<0.006	<0.02	<0.028	
MW-J	10/1/2007	0.0005	<0.002	<0.002	<0.006			<0.096
MW-J	6/30/2008	0.038	0.0073	0.0014	0.0014	0.093	0.28	
MW-J	9/16/2008	0.0012	0.0008 J	0.0005 J	0.0011 J	<0.02	0.093 J	
MW-J	2/4/2009	0.0078	0.0022	0.0007 J	0.0019 J	0.032 J	<0.031	
MW-J	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.035 J	0.11	
MW-J	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.056 J	
MW-J	7/7/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.062 J	
MW-J	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-J	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-J	10/15/2012							NS--Insufficient Water
MW-J	1/22/2013							NS--Insufficient Water
MW-J	7/23/2013	0.00100	0.00200	0.00100	0.00100	1.44	1.44	
MW-L	6/15/2005	<0.005	<0.005	<0.005	<0.005			
MW-L	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.038	
MW-L	10/1/2007	<0.002	<0.002	<0.002	<0.006			<0.093
MW-L	7/1/2008	0.018	0.0031	0.001	0.0025	0.063	0.089	
MW-L	9/16/2008	0.0019	0.0012	<0.0006	<0.0015	<0.02	0.13	
MW-L	2/4/2009	0.011	0.003	0.0009 J	0.0024 J	0.041 J	0.042 J	

MW-L	7/14/2009	0.0003 J	<0.0002	0.0002 J	<0.0006	0.033 J	0.079 J	
MW-L	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.037 J	
MW-L	7/12/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.051 J	
MW-L	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-L	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-L	10/15/2012							NS--Insufficient Water
MW-L	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-L	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	
MW-M	6/15/2005	<0.005	<0.005	<0.005	<0.005			
MW-M	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	
MW-M	10/1/2007	<0.002	<0.002	<0.002	<0.006			<0.096
MW-M	6/30/2008	0.042	0.004	0.0011	0.0032	0.11	0.034**	
MW-M	9/16/2008	0.0023	0.0013	0.0006 J	0.0014 J	0.022	0.13	
MW-M	2/4/2009	0.013	0.0031 J	0.001 J	0.0025 J	0.053	0.036 J	
MW-M	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.071 J	
MW-M	1/25/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.25	
MW-M	7/6/2010	0.0003 J	0.0003 J	<0.0002	<0.0006	<0.02	0.1	
MW-M	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-M	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-M	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-M	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-M	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.44	<1.44	
MW-N	6/15/2005	<0.001	<0.001	<0.001	<0.001			
MW-N	7/26/2005	0.0059	<0.005	<0.005	<0.005			
MW-N	9/21/2005	0.0076	<0.001	<0.001	<0.001			
MW-N	12/6/2005	<0.001	<0.001	<0.001	<0.001			
MW-N	5/17/2007	0.0013	0.0007	0.0002	<0.006	0.032	0.067	
MW-N	10/2/2007	<0.002	<0.002	<0.002	<0.006			<0.095
MW-N	6/30/2008	0.011	0.0031	0.0008	0.0009	0.056	0.05	
MW-N	9/17/2008	0.0014	0.0011	0.0007 J	0.0016 J	<0.02	0.073	
MW-N	2/5/2009	0.0051	0.0025	0.0006 J	0.0014 J	0.031 J	0.034 J	
MW-N	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.079	0.32	
MW-N	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.041 J	
MW-N	7/8/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.062 J	
MW-N	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-N	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-N	10/15/2012							NS--Insufficient Water

MW-N	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00351	<1.50	<1.50		
MW-N	7/23/2013								NS--Dry
MW-O	7/25/2005	0.0035	<0.001	<0.001	<0.001				
MW-O	9/21/2005	0.0102	<0.001	<0.001	<0.001				
MW-O	12/8/2005	0.0045	<0.001	<0.001	<0.001				
MW-O	5/14/2007	0.0072	<0.002	<0.002	<0.006	0.043	0.13		
MW-O	10/2/2007	0.0012	0.001	<0.002	<0.006			<0.093	
MW-O	6/30/2008	0.04	0.01	0.0065	0.011	0.15	0.280**		
MW-O	9/16/2008	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031		
MW-O	2/2/2009	<0.0002	0.0012	0.0005 J	0.0011 J	<0.02	0.063 J		
MW-O	7/13/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.1	0.36		
MW-O	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031		
MW-O	7/8/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.053 J		
MW-O	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		
MW-O	7/13/2011								NS--Dry
MW-O	10/15/2012								NS--Dry
MW-O	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		
MW-O	7/23/2013								NS--Dry
MW-P	6/15/2005	1.92	<0.05	<0.05	<0.05				
MW-P	7/25/2005	0.179	<0.001	<0.001	<0.001				
MW-P	9/19/2005	<0.001	<0.001	<0.001	<0.001				
MW-P	12/8/2005	<0.001	<0.001	<0.001	<0.001				
MW-P	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.028		
MW-P	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.094	
MW-P	6/17/2008	<0.002	0.003	<0.002	<0.006	<0.037	<0.062		
MW-P	9/16/2008	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031		
MW-P	2/2/2009	<0.0002	0.0033	0.0005 J	0.0011 J	<0.02	0.049 J		
MW-P	7/13/2009	0.0011	<0.0002	0.0003 J	<0.0006	0.31	4.7		
MW-P	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031		
MW-P	7/12/2010	<0.0002	0.0004 J	<0.0002	<0.0006	0.024 J	0.074 J		
MW-P	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		
MW-P	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5		
MW-P	10/15/2012								NS--Dry
MW-P	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		
MW-P	7/23/2013								NS--Dry
MW-Q	7/25/2005	<0.001	<0.001	<0.001	<0.001				

MW-Q	9/21/2005	<0.001	<0.001	<0.001	<0.001			
MW-Q	12/6/2005	<0.001	<0.001	<0.001	<0.001			
MW-Q	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	
MW-Q	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.094
MW-Q	6/17/2008	0.005	0.006	0.003	0.006	<0.043	<0.062	
MW-Q	9/16/2008	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031	
MW-Q	2/2/2009	<0.0002	0.0021	0.0003 J	0.0007 J	<0.02	0.048 J	
MW-Q	7/14/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.16	0.68	
MW-Q	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.031 J	
MW-Q	7/12/2010	<0.0002	0.0004 J	<0.0002	<0.0006	0.046 J	0.420 J	
MW-Q	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-Q	7/13/2011							NS--Dry
MW-Q	10/15/2012							NS--Dry
MW-Q	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-Q	7/23/2013							NS--Dry
MW-R	8/12/2005	<0.001	<0.001	<0.001	<0.001			
MW-R	9/19/2005	<0.001	<0.001	<0.001	<0.001			
MW-R	12/8/2005	<0.001	<0.001	<0.001	<0.001			
MW-R	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.028	
MW-R	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.095
MW-R	6/17/2008	<0.002	0.002	<0.002	<0.006	<0.061	<0.110	
MW-R	9/15/2008	<0.0002	0.000**	<0.0002	<0.0006	<0.02	<0.039	
MW-R	2/2/2009	0.0002 J	0.0005 J	0.0008 J	0.0016 J	0.028 J	0.074 J	
MW-R	7/14/2009	<0.0002	<0.0002	0.0002 J	<0.0006	0.049 J	0.13	
MW-R	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.041 J	
MW-R	7/8/2010	<0.0002	0.0004 J	<0.0002	<0.0006	<0.02	0.076 J	
MW-R	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-R	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-R	10/17/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-R	1/23/2013	<0.00100	<0.00200	<0.00100	0.00267	<1.50	<1.50	
MW-R	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	
MW-S	7/27/2006	<0.0005	<0.0007	<0.0008	<0.0008	0.028	0.053	
MW-S	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.39	
MW-S	10/1/2007	<0.002	<0.002	<0.002	<0.006			<0.095
MW-S	6/30/2008	0.039	0.0032	0.0005	0.0021	0.11	<0.043	
MW-S	9/16/2008	0.004	0.0018	0.0008 J	0.0019 J	0.029 J	0.35	
MW-S	2/4/2009	0.022	0.0048	0.0011	0.0031	0.072	0.044 J	

MW-S	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.050 J	
MW-S	1/25/2010	<0.0002	<0.0002	<0.0002	<0.0006	0.023 J	0.18 J	
MW-S	7/6/2010	0.0003 J	0.0002 J	<0.0002	<0.0006	<0.02	0.074 J	
MW-S	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-S	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-S	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-S	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-S	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42	
MW-T	7/27/2006	0.36	0.12	0.037	0.15	1.3	0.86	
MW-T	9/18/2008	0.0049	0.0028	0.0008 J	0.002 J	0.027 J	0.11	
MW-T	2/11/2009	0.0004 J	0.0003 J	<0.0002	<0.0006	<0.02	0.033 J	
MW-T	7/16/2009	0.0071	<0.0002	0.0013	0.0008 J	0.044 J	0.13	
MW-T	7/13/2010	0.84	0.18	0.026	0.055	2.4	0.070 J	
MW-T	1/27/2011	12	1.5	0.2	0.61	22.6	0.41	
MW-T	7/13/2011	4.49	0.448	0.0208	0.0576	8.17	<1.5	
MW-T	10/17/2012	12.8	<0.200	0.260	0.418	15.5	<1.50	
MW-T	1/23/2013	10.5	<0.100	0.104	0.195	12.2	<1.50	
MW-T	7/24/2013	13.1	0.168	0.284	0.519	21.3	<1.43	
MW-U	4/24/2007	<0.005	0.009	<0.008	<0.008	0.027	0.180*	
MW-U	5/16/2007	<0.0002	<0.0002	<0.0002	<0.0006	0.027	0.18	
MW-U	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.093
MW-U	6/30/2008	0.004	0.0018	0.0009	0.0019	0.028	0.057**	
MW-U	9/17/2008	<0.0002	0.0003 J	0.0002 J	<0.0006	0.025 J	<0.032	
MW-U	2/3/2009	<0.0002	0.0021	0.0006 J	0.0013 J	<0.02	0.060 J	
MW-U	7/14/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.034 J	0.1	
MW-U	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.049 J	
MW-U	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.070 J	
MW-U	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-U	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-U	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-U	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-U	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42	
MW-V	4/24/2007	<0.005	<0.007	<0.008	<0.008	0.028*	0.310*	
MW-V	5/16/2008	<0.001	<0.0002	<0.0002	<0.0006	0.028	0.31	
MW-V	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.094
MW-V	6/30/2008	0.011	0.0027	0.0012	0.0025	0.044	0.093**	

MW-V	9/16/2008	0.0045	<0.0002	<0.0002	<0.0006	0.023 J	0.064 J	
MW-V	2/2/2009	<0.0002	0.0078	0.0003 J	0.0007 J	0.023 J	0.066 J	
MW-V	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.027 J	0.14	
MW-V	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.062 J	
MW-V	7/7/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.070 J	
MW-V	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-V	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-V	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-V	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-V	7/24/2013	0.0105	<0.00200	<0.00100	<0.00100	<1.45	<1.45	
MW-W	4/24/2007	<0.005	<0.007	<0.008	<0.008	0.037*	0.450*	
MW-W	5/16/2007	<0.001	<0.0002	<0.0002	<0.0006	0.037	0.45	
MW-W	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.094
MW-W	6/30/2008	0.031	0.0035	0.0015	0.0032	0.092	0.130**	
MW-W	9/16/2008	0.0025	<0.0002	<0.0002	<0.0002	0.021 J	0.068 J	
MW-W	2/2/2009	<0.0002	0.0029	0.0004 J	0.0009 J	<0.02	0.078 J	
MW-W	7/13/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.093	0.33	
MW-W	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.039 J	
MW-W	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.087 J	
MW-W	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-W	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-W	10/17/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-W	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-W	7/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.46	<1.46	
MW-D2	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	
MW-D2	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.096
MW-D2	6/30/2008	0.026	0.0046	0.0009	0.0009	0.061	0.036	
MW-D2	9/17/2008	0.0011	0.0008 J	0.0007 J	0.0015 J	<0.02	0.052 J	
MW-D2	2/4/2009	0.0067	0.0031	0.0006 J	0.0016 J	0.030 J	<0.031	
MW-D2	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.023 J	0.086 J	
MW-D2	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.049 J	
MW-D2	7/7/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.060 J	
MW-D2	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	
MW-D2	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5	
MW-D2	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-D2	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	
MW-D2	7/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	

DUP1 (MW-D)	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050
DUP-1 (MW-N)	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5
DUP11 (MW-C)	1/25/2011	0.0024	0.00099 J	<0.0010	<0.0030	<0.0500	0.036 J
DUP-2 (BW-2)	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5
DUP	10/16/2012	<0.00100	<0.00203	<0.00100	<0.00100	<1.50	<1.50
Trip Blank	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030		
DUP1	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
Dup 1	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42

Notes:

1. mg/L - milligrams per liter

2. TPH - total petroleum hydrocarbons

3. TPH GRO - total petroleum hydrocarbons gasoline range organic (C₆-C₁₀)4. TPH DRO - total petroleum hydrocarbons diesel range organic (>C₁₀-C₂₈)

5. NMWQCC HHSGR - New Mexico Water Quality Control Commission Human Health for groundwater (NMAC 20.6.2.3103A)

6. J - estimated value which is greater than or equal to the method detection limit and less than the limit of quantitation (LOQ) or reporting limit

7. * - resampled on 05/16/2007

8. ** - resampled on 07/01/2008

9. NS = not sampled

re of the data re

Appendix C

Analytical Report 456283

for

Conestoga Rovers & Associates

Project Manager: John Schnable

Lovington Paddock

073020

31-JAN-13

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



31-JAN-13

Project Manager: **John Schnable**
Conestoga Rovers & Associates
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **456283**
Lovington Paddock
Project Address: New Mexico

John Schnable:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 456283. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 456283 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Nicholas Straccione
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Conestoga Rovers & Associates, Midland, TX

Lovington Paddock

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MWS 012213	W	01-22-13 09:55		456283-001
MWN 012213	W	01-22-13 11:30		456283-002
MWF 012213	W	01-22-13 13:10		456283-003
MWG 012213	W	01-22-13 14:10		456283-004
MWV 012213	W	01-22-13 15:10		456283-005
MWU 012213	W	01-22-13 15:55		456283-006
MWQ 012213	W	01-22-13 16:55		456283-007
MWD 012213	W	01-22-13 18:00		456283-008
MWD 2012213	W	01-22-13 16:15		456283-009
MWM 012213	W	01-22-13 15:10		456283-010
DUP1 012213	W	01-22-13 00:00		456283-011
BW1 012313	W	01-23-13 10:10		456283-012
MWD 012213	W	01-23-13 10:55		456283-013
MWE 012313	W	01-23-13 11:40		456283-014
MWR 012313	W	01-23-13 12:30		456283-015
MWW 012313	W	01-23-13 13:15		456283-016
MWO 012313	W	01-22-13 13:55		456283-017
MWL 012313	W	01-23-13 14:45		456283-018
MWP 012313	W	01-23-13 09:30		456283-019
MWC 012313	W	01-23-13 10:30		456283-020
BW 3012313	W	01-23-13 11:00		456283-021
MWB 012313	W	01-23-13 11:50		456283-022
MWH 012313	W	01-23-13 13:00		456283-023
MWI 012313	W	01-23-13 14:50		456283-024
MWT 012313	W	01-23-13 13:50		456283-025
BW2 012313	W	01-23-13 15:20		456283-026
DUP2 012313	W	01-23-13 00:00		456283-027
DUP3 012313	W	01-23-13 00:00		456283-028



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates

Project Name: Lovington Paddock



Project ID: 073020

Work Order Number(s): 456283

Report Date: 31-JAN-13

Date Received: 01/24/2013

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 456283

Conestoga Rovers & Associates, Midland, TX



Project Id: 073020

Contact: John Schnable

Project Name: Lovington Paddock

Date Received in Lab: Thu Jan-24-13 10:00 am

Report Date: 31-JAN-13

Project Location: New Mexico

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	456283-001	456283-002	456283-003	456283-004	456283-005	456283-006
	<i>Field Id:</i>	MWS 012213	MWN 012213	MWF 012213	MWG 012213	MWV 012213	MWU 012213
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Jan-22-13 09:55	Jan-22-13 11:30	Jan-22-13 13:10	Jan-22-13 14:10	Jan-22-13 15:10	Jan-22-13 15:55
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10
	<i>Analyzed:</i>	Jan-25-13 10:40	Jan-25-13 10:56	Jan-25-13 11:13	Jan-25-13 11:30	Jan-25-13 11:46	Jan-25-13 12:03
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
m,p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
o-Xylene		ND 0.00100	0.00351 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total Xylenes		ND 0.00100	0.00351 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total BTEX		ND 0.00100	0.00351 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
TPH By SW8015B Mod	<i>Extracted:</i>	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15
	<i>Analyzed:</i>	Jan-24-13 18:50	Jan-24-13 19:16	Jan-24-13 19:41	Jan-24-13 20:08	Jan-24-13 20:34	Jan-24-13 20:59
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
C6-C10 Gasoline Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50
C10-C28 Diesel Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione
Project Manager

Certificate of Analysis Summary 456283

Conestoga Rovers & Associates, Midland, TX

Project Name: Lovington Paddock



Project Id: 073020

Contact: John Schnable

Project Location: New Mexico

Date Received in Lab: Thu Jan-24-13 10:00 am

Report Date: 31-JAN-13

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	456283-007	456283-008	456283-009	456283-010	456283-011	456283-012
	<i>Field Id:</i>	MWQ 012213	MWD 012213	MWD 2012213	MWM 012213	DUP1 012213	BW1 012313
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Jan-22-13 16:55	Jan-22-13 18:00	Jan-22-13 16:15	Jan-22-13 15:10	Jan-22-13 00:00	Jan-23-13 10:10
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10
	<i>Analyzed:</i>	Jan-25-13 12:20	Jan-25-13 12:36	Jan-25-13 12:53	Jan-25-13 13:10	Jan-25-13 13:43	Jan-25-13 13:59
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
m,p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
o-Xylene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total Xylenes		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total BTEX		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
TPH By SW8015B Mod	<i>Extracted:</i>	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15
	<i>Analyzed:</i>	Jan-24-13 21:26	Jan-24-13 21:51	Jan-24-13 22:18	Jan-24-13 22:44	Jan-24-13 23:38	Jan-25-13 00:05
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
C6-C10 Gasoline Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50
C10-C28 Diesel Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50

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Nicholas Straccione
Project Manager

Certificate of Analysis Summary 456283

Conestoga Rovers & Associates, Midland, TX



Project Id: 073020

Contact: John Schnable

Project Name: Lovington Paddock

Date Received in Lab: Thu Jan-24-13 10:00 am

Report Date: 31-JAN-13

Project Location: New Mexico

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	456283-013	456283-014	456283-015	456283-016	456283-017	456283-018
	<i>Field Id:</i>	MWD 012213	MWE 012313	MWR 012313	MWW 012313	MWO 012313	MWL 012313
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Jan-23-13 10:55	Jan-23-13 11:40	Jan-23-13 12:30	Jan-23-13 13:15	Jan-22-13 13:55	Jan-23-13 14:45
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-25-13 09:10	Jan-25-13 09:10	Jan-25-13 09:10	Jan-28-13 08:10	Jan-28-13 08:10	Jan-28-13 08:10
	<i>Analyzed:</i>	Jan-25-13 14:16	Jan-25-13 14:33	Jan-25-13 14:49	Jan-28-13 13:13	Jan-28-13 13:29	Jan-28-13 13:46
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
m,p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
o-Xylene		ND 0.00100	ND 0.00100	0.00267 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total Xylenes		ND 0.00100	ND 0.00100	0.00267 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total BTEX		ND 0.00100	ND 0.00100	0.00267 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
TPH By SW8015B Mod	<i>Extracted:</i>	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15	Jan-24-13 15:15
	<i>Analyzed:</i>	Jan-25-13 00:32	Jan-25-13 00:58	Jan-25-13 01:25	Jan-25-13 01:52	Jan-25-13 02:19	Jan-25-13 02:45
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
C6-C10 Gasoline Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50
C10-C28 Diesel Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione
Project Manager

Certificate of Analysis Summary 456283

Conestoga Rovers & Associates, Midland, TX

Project Name: Lovington Paddock



Project Id: 073020

Contact: John Schnable

Project Location: New Mexico

Date Received in Lab: Thu Jan-24-13 10:00 am

Report Date: 31-JAN-13

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	456283-019	456283-020	456283-021	456283-022	456283-023	456283-024
	<i>Field Id:</i>	MWP 012313	MWC 012313	BW 3012313	MWB 012313	MWH 012313	MWI 012313
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Jan-23-13 09:30	Jan-23-13 10:30	Jan-23-13 11:00	Jan-23-13 11:50	Jan-23-13 13:00	Jan-23-13 14:50
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-28-13 08:10	Jan-28-13 08:10	Jan-28-13 08:10	Jan-28-13 08:10	Jan-28-13 08:10	Jan-28-13 08:10
	<i>Analyzed:</i>	Jan-28-13 14:03	Jan-28-13 14:20	Jan-28-13 14:36	Jan-28-13 16:53	Jan-28-13 17:10	Jan-28-13 16:20
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00100	0.00434 0.00100	0.00283 0.00100	2.41 0.0250	5.93 0.0250	0.338 0.00100
Toluene		ND 0.00200	ND 0.00200	0.00313 0.00200	ND 0.0500	0.446 0.0500	0.00613 0.00200
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.0250	0.0373 0.0250	ND 0.00100
m,p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.0500	0.0528 0.0500	0.00232 0.00200
o-Xylene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.0250	ND 0.0250	ND 0.00100
Total Xylenes		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.0250	0.0528 0.0250	0.00232 0.00100
Total BTEX		ND 0.00100	0.00434 0.00100	0.00596 0.00100	2.41 0.0250	6.47 0.0250	0.346 0.00100
TPH By SW8015B Mod	<i>Extracted:</i>	Jan-24-13 15:15	Jan-24-13 15:15	Jan-25-13 08:20	Jan-25-13 08:20	Jan-25-13 08:20	Jan-25-13 08:20
	<i>Analyzed:</i>	Jan-25-13 03:12	Jan-25-13 03:39	Jan-25-13 12:50	Jan-25-13 13:17	Jan-25-13 13:44	Jan-25-13 14:11
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
C6-C10 Gasoline Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	4.97 1.50	7.55 1.50	ND 1.50
C10-C28 Diesel Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50	ND 1.50

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Nicholas Straccione
Project Manager

Certificate of Analysis Summary 456283

Conestoga Rovers & Associates, Midland, TX



Project Id: 073020

Contact: John Schnable

Project Name: Lovington Paddock

Date Received in Lab: Thu Jan-24-13 10:00 am

Report Date: 31-JAN-13

Project Location: New Mexico

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	456283-025	456283-026	456283-027	456283-028		
	<i>Field Id:</i>	MWT 012313	BW2 012313	DUP2 012313	DUP3 012313		
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER		
	<i>Sampled:</i>	Jan-23-13 13:50	Jan-23-13 15:20	Jan-23-13 00:00	Jan-23-13 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-28-13 08:10	Jan-28-13 08:10	Jan-29-13 07:50	Jan-29-13 07:50		
	<i>Analyzed:</i>	Jan-28-13 17:26	Jan-28-13 16:03	Jan-29-13 10:13	Jan-29-13 10:30		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Benzene		10.5 0.0500	0.0503 0.00100	ND 0.00100	ND 0.00100		
Toluene		ND 0.100	0.0128 0.00200	ND 0.00200	ND 0.00200		
Ethylbenzene		0.104 0.0500	ND 0.00100	ND 0.00100	ND 0.00100		
m,p-Xylenes		0.195 0.100	ND 0.00200	ND 0.00200	ND 0.00200		
o-Xylene		ND 0.0500	ND 0.00100	ND 0.00100	ND 0.00100		
Total Xylenes		0.195 0.0500	ND 0.00100	ND 0.00100	ND 0.00100		
Total BTEX		10.8 0.0500	0.0631 0.00100	ND 0.00100	ND 0.00100		
TPH By SW8015B Mod	<i>Extracted:</i>	Jan-25-13 08:20	Jan-25-13 08:20	Jan-25-13 08:20	Jan-25-13 08:20		
	<i>Analyzed:</i>	Jan-25-13 14:36	Jan-25-13 15:01	Jan-25-13 15:25	Jan-25-13 15:50		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
C6-C10 Gasoline Range Hydrocarbons		12.2 1.50	ND 1.50	ND 1.50	ND 1.50		
C10-C28 Diesel Range Hydrocarbons		ND 1.50	ND 1.50	ND 1.50	ND 1.50		

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Nicholas Straccione
Project Manager

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905425

Sample: 456283-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/24/13 18:50

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.71	10.0	97	70-135	
o-Terphenyl	5.25	5.00	105	70-135	

Lab Batch #: 905425

Sample: 456283-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/24/13 19:16

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.4	10.0	104	70-135	
o-Terphenyl	5.65	5.00	113	70-135	

Lab Batch #: 905425

Sample: 456283-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/24/13 19:41

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.3	10.0	103	70-135	
o-Terphenyl	5.54	5.00	111	70-135	

Lab Batch #: 905425

Sample: 456283-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/24/13 20:08

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.3	10.0	103	70-135	
o-Terphenyl	5.53	5.00	111	70-135	

Lab Batch #: 905425

Sample: 456283-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/24/13 20:34

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.53	10.0	95	70-135	
o-Terphenyl	5.16	5.00	103	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905425

Sample: 456283-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/24/13 20:59	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.5	10.0	105	70-135
o-Terphenyl		5.61	5.00	112	70-135

Lab Batch #: 905425

Sample: 456283-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/24/13 21:26	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.87	10.0	99	70-135
o-Terphenyl		5.35	5.00	107	70-135

Lab Batch #: 905425

Sample: 456283-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/24/13 21:51	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.72	10.0	97	70-135
o-Terphenyl		5.23	5.00	105	70-135

Lab Batch #: 905425

Sample: 456283-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/24/13 22:18	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.1	10.0	101	70-135
o-Terphenyl		5.44	5.00	109	70-135

Lab Batch #: 905425

Sample: 456283-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/24/13 22:44	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.91	10.0	99	70-135
o-Terphenyl		5.36	5.00	107	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905425

Sample: 456283-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/24/13 23:38

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.25	10.0	93	70-135	
o-Terphenyl	5.02	5.00	100	70-135	

Lab Batch #: 905425

Sample: 456283-012 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 00:05

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.2	10.0	102	70-135	
o-Terphenyl	5.53	5.00	111	70-135	

Lab Batch #: 905425

Sample: 456283-013 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 00:32

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.4	10.0	104	70-135	
o-Terphenyl	5.63	5.00	113	70-135	

Lab Batch #: 905425

Sample: 456283-014 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 00:58

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.2	10.0	102	70-135	
o-Terphenyl	5.50	5.00	110	70-135	

Lab Batch #: 905425

Sample: 456283-015 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 01:25

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.3	10.0	103	70-135	
o-Terphenyl	5.55	5.00	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905425

Sample: 456283-016 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 01:52

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.72	10.0	97	70-135	
o-Terphenyl	5.29	5.00	106	70-135	

Lab Batch #: 905425

Sample: 456283-017 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 02:19

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.3	10.0	103	70-135	
o-Terphenyl	5.55	5.00	111	70-135	

Lab Batch #: 905425

Sample: 456283-018 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 02:45

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.5	10.0	105	70-135	
o-Terphenyl	5.63	5.00	113	70-135	

Lab Batch #: 905425

Sample: 456283-019 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 03:12

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.5	10.0	105	70-135	
o-Terphenyl	5.73	5.00	115	70-135	

Lab Batch #: 905425

Sample: 456283-020 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 03:39

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.80	10.0	98	70-135	
o-Terphenyl	5.33	5.00	107	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905474

Sample: 456283-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 10:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 905474

Sample: 456283-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 10:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 905474

Sample: 456283-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 11:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 905474

Sample: 456283-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 11:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 905474

Sample: 456283-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 11:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905474

Sample: 456283-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 12:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

Lab Batch #: 905474

Sample: 456283-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 12:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 905474

Sample: 456283-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 12:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0333	0.0300	111	80-120	

Lab Batch #: 905515

Sample: 456283-021 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 12:50

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.2	10.0	102	70-135	
o-Terphenyl	5.52	5.00	110	70-135	

Lab Batch #: 905474

Sample: 456283-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 12:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905474

Sample: 456283-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 13:10		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0250	0.0300	83	80-120
4-Bromofluorobenzene		0.0313	0.0300	104	80-120

Lab Batch #: 905515

Sample: 456283-022 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 13:17		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		10.0	10.0	100	70-135
o-Terphenyl		5.43	5.00	109	70-135

Lab Batch #: 905474

Sample: 456283-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 13:43		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0270	0.0300	90	80-120
4-Bromofluorobenzene		0.0269	0.0300	90	80-120

Lab Batch #: 905515

Sample: 456283-023 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 13:44		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		10.3	10.0	103	70-135
o-Terphenyl		5.56	5.00	111	70-135

Lab Batch #: 905474

Sample: 456283-012 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 13:59		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0283	0.0300	94	80-120
4-Bromofluorobenzene		0.0336	0.0300	112	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905515

Sample: 456283-024 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 14:11		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		9.75	10.0	98	70-135
o-Terphenyl		5.27	5.00	105	70-135

Lab Batch #: 905474

Sample: 456283-013 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 14:16		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0243	0.0300	81	80-120
4-Bromofluorobenzene		0.0250	0.0300	83	80-120

Lab Batch #: 905474

Sample: 456283-014 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 14:33		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0246	0.0300	82	80-120
4-Bromofluorobenzene		0.0273	0.0300	91	80-120

Lab Batch #: 905515

Sample: 456283-025 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 14:36		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		10.1	10.0	101	70-135
o-Terphenyl		5.43	5.00	109	70-135

Lab Batch #: 905474

Sample: 456283-015 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 14:49		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0268	0.0300	89	80-120
4-Bromofluorobenzene		0.0319	0.0300	106	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905515

Sample: 456283-026 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/25/13 15:01	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.2	10.0	102	70-135
o-Terphenyl		5.48	5.00	110	70-135

Lab Batch #: 905515

Sample: 456283-027 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/25/13 15:25	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.3	10.0	103	70-135
o-Terphenyl		5.57	5.00	111	70-135

Lab Batch #: 905515

Sample: 456283-028 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/25/13 15:50	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.7	10.0	107	70-135
o-Terphenyl		5.78	5.00	116	70-135

Lab Batch #: 905634

Sample: 456283-016 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/28/13 13:13	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0305	0.0300	102	80-120
4-Bromofluorobenzene		0.0315	0.0300	105	80-120

Lab Batch #: 905634

Sample: 456283-017 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/28/13 13:29	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0303	0.0300	101	80-120
4-Bromofluorobenzene		0.0333	0.0300	111	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905634

Sample: 456283-018 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 13:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 905634

Sample: 456283-019 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 14:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 905634

Sample: 456283-020 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 14:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 905634

Sample: 456283-021 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 14:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 905634

Sample: 456283-026 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 16:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905634

Sample: 456283-024 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 16:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0245	0.0300	82	80-120	

Lab Batch #: 905634

Sample: 456283-022 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 16:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 905634

Sample: 456283-023 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 17:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

Lab Batch #: 905634

Sample: 456283-025 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 17:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 905748

Sample: 456283-027 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/29/13 10:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905748

Sample: 456283-028 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/29/13 10:30		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0338	0.0300	113	80-120
4-Bromofluorobenzene		0.0312	0.0300	104	80-120

Lab Batch #: 905425

Sample: 632865-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/24/13 18:24		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		10.5	10.0	105	70-135
o-Terphenyl		5.66	5.00	113	70-135

Lab Batch #: 905474

Sample: 632879-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 10:23		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0244	0.0300	81	80-120
4-Bromofluorobenzene		0.0254	0.0300	85	80-120

Lab Batch #: 905515

Sample: 632880-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 12:24		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		9.98	10.0	100	70-135
o-Terphenyl		5.38	5.00	108	70-135

Lab Batch #: 905634

Sample: 632980-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/28/13 12:06		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0298	0.0300	99	80-120
4-Bromofluorobenzene		0.0273	0.0300	91	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905748

Sample: 633059-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/29/13 09:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 905425

Sample: 632865-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/24/13 17:35

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	10.5	10.0	105	70-135	
o-Terphenyl	5.98	5.00	120	70-135	

Lab Batch #: 905474

Sample: 632879-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 09:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 905515

Sample: 632880-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 11:32

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	11.1	10.0	111	70-135	
o-Terphenyl	5.49	5.00	110	70-135	

Lab Batch #: 905634

Sample: 632980-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 11:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0334	0.0300	111	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905748

Sample: 633059-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/29/13 08:28		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0348	0.0300	116	80-120
4-Bromofluorobenzene		0.0341	0.0300	114	80-120

Lab Batch #: 905425

Sample: 632865-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/24/13 18:00		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		10.8	10.0	108	70-135
o-Terphenyl		6.07	5.00	121	70-135

Lab Batch #: 905474

Sample: 632879-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 10:06		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0308	0.0300	103	80-120
4-Bromofluorobenzene		0.0330	0.0300	110	80-120

Lab Batch #: 905515

Sample: 632880-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 11:58		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		11.3	10.0	113	70-135
o-Terphenyl		5.94	5.00	119	70-135

Lab Batch #: 905634

Sample: 632980-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/28/13 11:50		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0320	0.0300	107	80-120
4-Bromofluorobenzene		0.0303	0.0300	101	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905748

Sample: 633059-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/29/13 08:45		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0317	0.0300	106	80-120
4-Bromofluorobenzene		0.0337	0.0300	112	80-120

Lab Batch #: 905425

Sample: 456283-020 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 04:05		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		10.4	10.0	104	70-135
o-Terphenyl		5.89	5.00	118	70-135

Lab Batch #: 905474

Sample: 456283-015 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 15:06		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0340	0.0300	113	80-120
4-Bromofluorobenzene		0.0295	0.0300	98	80-120

Lab Batch #: 905515

Sample: 456283-028 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/25/13 16:15		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		10.6	10.0	106	70-135
o-Terphenyl		6.08	5.00	122	70-135

Lab Batch #: 905634

Sample: 456283-016 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/28/13 17:43		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0252	0.0300	84	80-120
4-Bromofluorobenzene		0.0302	0.0300	101	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 456283,

Project ID: 073020

Lab Batch #: 905748

Sample: 456283-027 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/29/13 14:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0355	0.0300	118	80-120	

Lab Batch #: 905474

Sample: 456283-015 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/25/13 15:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

Lab Batch #: 905634

Sample: 456283-016 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/28/13 17:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 905748

Sample: 456283-027 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/29/13 14:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: Lovington Paddock

Work Order #: 456283

Analyst: KEB

Date Prepared: 01/25/2013

Project ID: 073020

Date Analyzed: 01/25/2013

Lab Batch ID: 905474

Sample: 632879-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0979	98	0.100	0.0860	86	13	70-125	25	
Toluene	<0.00200	0.100	0.101	101	0.100	0.0851	85	17	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0984	98	0.100	0.0845	85	15	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.188	94	0.200	0.160	80	16	70-131	25	
o-Xylene	<0.00100	0.100	0.0952	95	0.100	0.0824	82	14	71-133	25	

Analyst: KEB

Date Prepared: 01/28/2013

Date Analyzed: 01/28/2013

Lab Batch ID: 905634

Sample: 632980-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0919	92	0.100	0.0864	86	6	70-125	25	
Toluene	<0.00200	0.100	0.0842	84	0.100	0.0788	79	7	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0874	87	0.100	0.0842	84	4	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.168	84	0.200	0.162	81	4	70-131	25	
o-Xylene	<0.00100	0.100	0.0878	88	0.100	0.0822	82	7	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: Lovington Paddock

Work Order #: 456283

Analyst: KEB

Date Prepared: 01/29/2013

Project ID: 073020

Date Analyzed: 01/29/2013

Lab Batch ID: 905748

Sample: 633059-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0915	92	0.100	0.0980	98	7	70-125	25	
Toluene	<0.00200	0.100	0.0892	89	0.100	0.0927	93	4	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0903	90	0.100	0.0957	96	6	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.177	89	0.200	0.184	92	4	70-131	25	
o-Xylene	<0.00100	0.100	0.0891	89	0.100	0.0897	90	1	71-133	25	

Analyst: KEB

Date Prepared: 01/24/2013

Date Analyzed: 01/24/2013

Lab Batch ID: 905425

Sample: 632865-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C10 Gasoline Range Hydrocarbons	<1.50	100	105	105	100	105	105	0	70-135	25	
C10-C28 Diesel Range Hydrocarbons	<1.50	100	112	112	100	113	113	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: Lovington Paddock

Work Order #: 456283

Analyst: KEB

Date Prepared: 01/25/2013

Project ID: 073020

Date Analyzed: 01/25/2013

Lab Batch ID: 905515

Sample: 632880-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C10 Gasoline Range Hydrocarbons	<1.50	100	104	104	100	105	105	1	70-135	25	
C10-C28 Diesel Range Hydrocarbons	<1.50	100	114	114	100	116	116	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Lovington Paddock

Work Order #: 456283

Lab Batch #: 905425

Date Analyzed: 01/25/2013

QC- Sample ID: 456283-020 S

Reporting Units: mg/L

Project ID: 073020

Analyst: KEB

Date Prepared: 01/24/2013

Batch #: 1

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW 8015B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C10 Gasoline Range Hydrocarbons	<1.50	100	104	104	70-135	
C10-C28 Diesel Range Hydrocarbons	<1.50	100	113	113	70-135	

Lab Batch #: 905515

Date Analyzed: 01/25/2013

QC- Sample ID: 456283-028 S

Reporting Units: mg/L

Date Prepared: 01/25/2013

Analyst: KEB

Batch #: 1

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW 8015B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C10 Gasoline Range Hydrocarbons	<1.50	100	104	104	70-135	
C10-C28 Diesel Range Hydrocarbons	<1.50	100	112	112	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Lovington Paddock

Work Order #: 456283

Project ID: 073020

Lab Batch ID: 905474

QC- Sample ID: 456283-015 S

Batch #: 1 Matrix: Water

Date Analyzed: 01/25/2013

Date Prepared: 01/25/2013

Analyst: KEB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0851	85	0.100	0.0961	96	12	70-125	25	
Toluene	<0.00200	0.100	0.0827	83	0.100	0.0936	94	12	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0790	79	0.100	0.0946	95	18	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.150	75	0.200	0.180	90	18	70-131	25	
o-Xylene	0.00267	0.100	0.0756	73	0.100	0.0926	90	20	71-133	25	

Lab Batch ID: 905634

QC- Sample ID: 456283-016 S

Batch #: 1 Matrix: Water

Date Analyzed: 01/28/2013

Date Prepared: 01/28/2013

Analyst: KEB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0855	86	0.100	0.0842	84	2	70-125	25	
Toluene	<0.00200	0.100	0.0801	80	0.100	0.0751	75	6	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0786	79	0.100	0.0762	76	3	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.145	73	0.200	0.147	74	1	70-131	25	
o-Xylene	<0.00100	0.100	0.0799	80	0.100	0.0743	74	7	71-133	25	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: Lovington Paddock

Work Order # : 456283

Project ID: 073020

Lab Batch ID: 905748

QC- Sample ID: 456283-027 S

Batch #: 1 Matrix: Water

Date Analyzed: 01/29/2013

Date Prepared: 01/29/2013

Analyst: KEB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0924	92	0.100	0.0819	82	12	70-125	25	
Toluene	<0.00200	0.100	0.0878	88	0.100	0.0816	82	7	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0881	88	0.100	0.0823	82	7	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.172	86	0.200	0.159	80	8	70-131	25	
o-Xylene	<0.00100	0.100	0.0914	91	0.100	0.0811	81	12	71-133	25	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * [(C - F) / (C + F)]$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

- ☐ 4143 Greenbriar Drive, Stafford, TX 77477 **281-240-4200**
☐ 5332, Blackberry Drive, San Antonio, TX 78238 **210-509-3334**
☐ 9701 Harry Hines Blvd., Dallas, TX 75220 **214-902-0300**

- ☐ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**
☐ 842 Cantwell, Corpus Christi, TX 78408 **361-8840371**

Serial #: 307932 Page 1 of 3

Company-City CRA-Midland				Phone 432-686-0086				Lab Only: 456283																							
Project Name-Location Lovington Paddock NM				☐ Previously done at XENCO				Project ID 073020				TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.																			
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other				Proj. Manager (PM) John Schnable																											
E-mail Results to JSchnable@Crawford.com				☒ PM and				Fax No: 432-686-0186																							
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.				Bill to:																											
Quote/Pricing:				P.O. No:				☐ Call for P.O.																							
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP																															
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																															
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)																															
Sampler Name Justin Nixon Signature Justin Nixon																															
Sample ID		Sampling Date		Time		Depth ft' in" m		Matrix		Composite		# Containers		Container Size		Container Type		Preservatives		VOCs: Full-List BTEX-MTBE EtOH Oxyg VOHs VOA's VCO's PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2 SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP BTEX (801B) TPH - GRO (801SB) TPH - DRO (801SB)											
mwS 012213		1-22-13		955				6		X		4		40ml				HCL		TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Addn: PAH above mg/L W, mg/Kg S - Highest Hit Hold Samples (Surcharges will apply and are pre-approved) Sample Clean-ups are pre-approved as needed											
mwN 012213				1130																											
mwF 012213				1310																											
mwG 012213				1410																											
mwV 012213				1510																											
mwU 012213				1555																											
mwR 012213				1655																											
mwD 012213				1800																											
mwJ 012213				1615																											
mwM 012213		J		1570																											
Relinquished by (Initials and Sign)				Date & Time				Relinquished to (Initials and Sign)				Date & Time				Total Containers per COC: 40				Cooler Temp: 0 °C											
1) J. Nixon				01-24-13				Shaunee Smith				1/24/13				1000				Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.											
3)								4)																							
5)								6)																							

Preservatives: Various (V), HCl pH<2 (H), H₂SO₄ pH<2 (S), HNO₃ pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other

Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

Company-City CRA-Midland						Phone 432-686-0086						Lab Only: 456283																							
Project Name-Location Lovingston Paddock MM						☐ Previously done at XENCO						Project ID 073020						TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.																	
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other						Proj. Manager (PM) John Schrable																													
E-mail Results to jschrable@cracore.com						Fax No: 432-686-0186																													
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.																																			
Bill to:																																			
Quote/Pricing:						P.O. No:						☐ Call for P.O.																							
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP																																			
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																																			
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)																																			
Sampler Name Justin Nixon						Signature [Signature]																													
Sample ID		Sampling Date		Time		Depth ft' In" m		Matrix		Composite		Grab		# Containers		Container Size		Container Type		Preservatives		VOCs: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs VCO's PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2 SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP BTX (80218) TPM-GRO (80153) TPM-DRO (80153)													
BW3012313		1-23-13		1100				W		X		4		40m				HCL				TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Addn: PAH above mg/L W, mg/Kg S Highest Hit Hold Samples (Surcharges will apply and are pre-approved) Sample Clean-ups are pre-approved as needed													
MLW3012313				1150																															
MLWH012313				1300																															
MLWI012313				1450																															
MLWT012313				1350																															
BW2012313				1520																															
Dup2012313																																			
Dup3012313																																			
Relinquished by (Initials and Sign) JMN						Date & Time 1-24-13/1000						Relinquished to (Initials and Sign) Shaune Smith						Date & Time 1/24/13 10:00						Total Containers per COC: 32 Cooler Temp: 0 °C											
1) [Signature]												2) [Signature]												Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.											
3) [Signature]												4) [Signature]																							
5) [Signature]												6) [Signature]																							

Preservatives: Various (V), HCl pH<2 (H), H₂SO₄ pH<2 (S), HNO₃ pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other

Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & Associates

Date/ Time Received: 01/24/2013 10:00:00 AM

Work Order #: 456283

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	0
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: _____

Date: _____

Checklist reviewed by: _____

Date: _____

Analytical Report 467260

for

Conestoga Rovers & Associates

Project Manager: John Schnable

Lovington Paddock

073020

05-AUG-13

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-13-14-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

05-AUG-13

Project Manager: **John Schnable**
Conestoga Rovers & Associates
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **467260**
Lovington Paddock
Project Address: New Mexico

John Schnable:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 467260. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 467260 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Kelsey Brooks

Project Manager

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Conestoga Rovers & Associates, Midland, TX

Lovington Paddock

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MWV072413	W	07-24-13 11:40		467260-001
MWD2 072413	W	07-24-13 13:05		467260-002
BW1 072313	W	07-23-13 11:40		467260-003
MWL 072313	W	07-23-13 14:45		467260-004
MWU 072313	W	07-23-13 16:55		467260-005
MWW 072413	W	07-24-13 09:40		467260-006
Dup1 072313	W	07-23-13 00:00		467260-007
Dup2 072413	W	07-24-13 00:00		467260-008
BW2 072413	W	07-24-13 10:50		467260-009
MWT 072413	W	07-24-13 12:00		467260-010
BW3 072413	W	07-24-13 13:15		467260-011
MWR 072313	W	07-23-13 17:40		467260-012
MWM 072313	W	07-23-13 15:50		467260-013
MWJ 072313	W	07-23-13 11:40		467260-014
MWS 072313	W	07-23-13 10:05		467260-015



CASE NARRATIVE



Client Name: Conestoga Rovers & Associates

Project Name: Lovington Paddock

Project ID: 073020
Work Order Number(s): 467260

Report Date: 05-AUG-13
Date Received: 07/24/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 467260

Conestoga Rovers & Associates, Midland, TX



Project Id: 073020

Contact: John Schnable

Project Name: Lovington Paddock

Date Received in Lab: Wed Jul-24-13 04:40 pm

Report Date: 05-AUG-13

Project Location: New Mexico

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	467260-001	467260-002	467260-003	467260-004	467260-005	467260-006
	<i>Field Id:</i>	MWV072413	MWD2 072413	BW1 072313	MWL 072313	MWU 072313	MWW 072413
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Jul-24-13 11:40	Jul-24-13 13:05	Jul-23-13 11:40	Jul-23-13 14:45	Jul-23-13 16:55	Jul-24-13 09:40
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-13 08:00	Jul-26-13 08:00	Jul-26-13 08:00	Jul-26-13 08:00	Jul-26-13 08:00	Jul-26-13 08:00
	<i>Analyzed:</i>	Jul-26-13 11:36	Jul-26-13 10:15	Jul-26-13 10:31	Jul-26-13 10:48	Jul-26-13 11:04	Jul-26-13 11:20
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		0.0105 0.00100	ND 0.00100	0.00182 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
Ethylbenzene		ND 0.00100	ND 0.00100	0.00123 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
m,p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200	ND 0.00200
o-Xylene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total Xylenes		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
Total BTEX		0.0105 0.00100	ND 0.00100	0.00305 0.00100	ND 0.00100	ND 0.00100	ND 0.00100
TPH By SW8015B Mod SUB: E871002	<i>Extracted:</i>	Jul-25-13 13:01	Jul-25-13 13:04	Jul-25-13 13:07	Jul-25-13 13:10	Jul-25-13 13:13	Jul-25-13 13:16
	<i>Analyzed:</i>	Jul-26-13 09:29	Jul-26-13 09:50	Jul-26-13 10:12	Jul-26-13 10:34	Jul-26-13 10:56	Jul-26-13 15:41
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
C6-C10 Gasoline Range Hydrocarbons		ND 1.45	ND 1.42	ND 1.44	ND 1.41	ND 1.42	ND 1.46
C10-C28 Diesel Range Hydrocarbons		ND 1.45	ND 1.42	ND 1.44	ND 1.41	ND 1.42	ND 1.46

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks
Project Manager

Certificate of Analysis Summary 467260

Conestoga Rovers & Associates, Midland, TX



Project Id: 073020

Contact: John Schnable

Project Name: Lovington Paddock

Date Received in Lab: Wed Jul-24-13 04:40 pm

Report Date: 05-AUG-13

Project Location: New Mexico

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	467260-007	467260-008	467260-009	467260-010	467260-011	467260-012
	<i>Field Id:</i>	Dup1 072313	Dup2 072413	BW2 072413	MWT 072413	BW3 072413	MWR 072313
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Jul-23-13 00:00	Jul-24-13 00:00	Jul-24-13 10:50	Jul-24-13 12:00	Jul-24-13 13:15	Jul-23-13 17:40
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-13 08:00	Jul-26-13 08:00	Jul-26-13 08:00	Jul-29-13 09:00	Jul-29-13 09:00	Jul-29-13 09:00
	<i>Analyzed:</i>	Jul-26-13 15:06	Jul-26-13 11:52	Jul-26-13 13:13	Jul-29-13 13:10	Jul-29-13 12:54	Jul-29-13 11:01
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		ND 0.00100	ND 0.00100	0.00289 0.00100	13.1 0.0500	0.209 0.00100	ND 0.00100
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	0.168 0.100	0.0797 0.00200	ND 0.00200
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100	0.284 0.0500	0.00640 0.00100	ND 0.00100
m,p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	0.519 0.100	0.0113 0.00200	ND 0.00200
o-Xylene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.0500	0.00637 0.00100	ND 0.00100
Total Xylenes		ND 0.00100	ND 0.00100	ND 0.00100	0.519 0.0500	0.0177 0.00100	ND 0.00100
Total BTEX		ND 0.00100	ND 0.00100	0.00289 0.00100	14.1 0.0500	0.313 0.00100	ND 0.00100
TPH By SW8015B Mod SUB: E871002	<i>Extracted:</i>	Jul-25-13 13:19	Jul-25-13 13:22	Jul-25-13 13:25	Jul-25-13 13:28	Jul-25-13 13:31	Jul-25-13 13:34
	<i>Analyzed:</i>	Jul-26-13 16:04	Jul-26-13 16:27	Jul-26-13 16:51	Jul-26-13 17:15	Jul-26-13 17:39	Jul-26-13 18:03
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
C6-C10 Gasoline Range Hydrocarbons		ND 1.42	ND 1.42	ND 1.41	21.3 1.43	ND 1.44	ND 1.41
C10-C28 Diesel Range Hydrocarbons		ND 1.42	ND 1.42	ND 1.41	ND 1.43	ND 1.44	ND 1.41

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Kelsey Brooks
Project Manager

Certificate of Analysis Summary 467260

Conestoga Rovers & Associates, Midland, TX



Project Id: 073020

Contact: John Schnable

Project Name: Lovington Paddock

Date Received in Lab: Wed Jul-24-13 04:40 pm

Report Date: 05-AUG-13

Project Location: New Mexico

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	467260-013	467260-014	467260-015			
	<i>Field Id:</i>	MWM 072313	MWJ 072313	MWS 072313			
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER			
	<i>Sampled:</i>	Jul-23-13 15:50	Jul-23-13 11:40	Jul-23-13 10:05			
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-29-13 09:00	Jul-29-13 09:00	Jul-29-13 09:00			
	<i>Analyzed:</i>	Jul-29-13 11:17	Jul-29-13 11:33	Jul-29-13 11:50			
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL			
Benzene		ND 0.00100	ND 0.00100	ND 0.00100			
Toluene		ND 0.00200	ND 0.00200	ND 0.00200			
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100			
m,p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200			
o-Xylene		ND 0.00100	ND 0.00100	ND 0.00100			
Total Xylenes		ND 0.00100	ND 0.00100	ND 0.00100			
Total BTEX		ND 0.00100	ND 0.00100	ND 0.00100			
TPH By SW8015B Mod SUB: E871002	<i>Extracted:</i>	Jul-25-13 13:37	Jul-25-13 13:40	Jul-25-13 13:43			
	<i>Analyzed:</i>	Jul-26-13 18:27	Jul-26-13 18:50	Jul-26-13 19:14			
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL			
C6-C10 Gasoline Range Hydrocarbons		ND 1.44	ND 1.44	ND 1.42			
C10-C28 Diesel Range Hydrocarbons		ND 1.44	ND 1.44	ND 1.42			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks
Project Manager

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 2505 North Falkenburg Rd, Tampa, FL 33619
 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919589

Sample: 467260-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 09:29	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.77	9.67	101	70-135
o-Terphenyl		5.16	4.84	107	70-135

Lab Batch #: 919589

Sample: 467260-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 09:50	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.5	9.48	111	70-135
o-Terphenyl		5.81	4.74	123	70-135

Lab Batch #: 919589

Sample: 467260-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 10:12	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.76	9.62	101	70-135
o-Terphenyl		5.39	4.81	112	70-135

Lab Batch #: 919406

Sample: 467260-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 10:15	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0289	0.0300	96	80-120
4-Bromofluorobenzene		0.0276	0.0300	92	80-120

Lab Batch #: 919406

Sample: 467260-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 10:31	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0299	0.0300	100	80-120
4-Bromofluorobenzene		0.0308	0.0300	103	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919589

Sample: 467260-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 07/26/13 10:34		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.20	9.41	98	70-135
o-Terphenyl		5.65	4.70	120	70-135

Lab Batch #: 919406

Sample: 467260-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 07/26/13 10:48		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0302	0.0300	101	80-120
4-Bromofluorobenzene		0.0339	0.0300	113	80-120

Lab Batch #: 919589

Sample: 467260-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 07/26/13 10:56		SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.1	9.45	107	70-135
o-Terphenyl		5.88	4.73	124	70-135

Lab Batch #: 919406

Sample: 467260-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 07/26/13 11:04		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0303	0.0300	101	80-120
4-Bromofluorobenzene		0.0358	0.0300	119	80-120

Lab Batch #: 919406

Sample: 467260-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 07/26/13 11:20		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0280	0.0300	93	80-120
4-Bromofluorobenzene		0.0271	0.0300	90	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919406

Sample: 467260-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 11:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 919406

Sample: 467260-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 11:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 919406

Sample: 467260-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 13:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 919406

Sample: 467260-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 15:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 919589

Sample: 467260-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 15:41

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.7	9.72	110	70-135	
o-Terphenyl	5.83	4.86	120	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919589

Sample: 467260-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 16:04	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		8.66	9.44	92	70-135
o-Terphenyl		4.53	4.72	96	70-135

Lab Batch #: 919589

Sample: 467260-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 16:27	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.5	9.49	111	70-135
o-Terphenyl		5.73	4.75	121	70-135

Lab Batch #: 919589

Sample: 467260-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 16:51	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		7.31	9.41	78	70-135
o-Terphenyl		4.15	4.71	88	70-135

Lab Batch #: 919589

Sample: 467260-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 17:15	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.01	9.51	95	70-135
o-Terphenyl		4.86	4.76	102	70-135

Lab Batch #: 919589

Sample: 467260-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 17:39	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		8.73	9.63	91	70-135
o-Terphenyl		4.68	4.82	97	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919589

Sample: 467260-012 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 18:03

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	8.39	9.42	89	70-135	
o-Terphenyl	4.46	4.71	95	70-135	

Lab Batch #: 919589

Sample: 467260-013 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 18:27

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	8.54	9.59	89	70-135	
o-Terphenyl	4.82	4.79	101	70-135	

Lab Batch #: 919589

Sample: 467260-014 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 18:50

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	8.03	9.61	84	70-135	
o-Terphenyl	4.57	4.81	95	70-135	

Lab Batch #: 919589

Sample: 467260-015 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 19:14

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	8.05	9.44	85	70-135	
o-Terphenyl	4.15	4.72	88	70-135	

Lab Batch #: 919477

Sample: 467260-012 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/13 11:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919477

Sample: 467260-013 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/29/13 11:17	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0294	0.0300	98	80-120
4-Bromofluorobenzene		0.0268	0.0300	89	80-120

Lab Batch #: 919477

Sample: 467260-014 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/29/13 11:33	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0295	0.0300	98	80-120
4-Bromofluorobenzene		0.0270	0.0300	90	80-120

Lab Batch #: 919477

Sample: 467260-015 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/29/13 11:50	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0290	0.0300	97	80-120
4-Bromofluorobenzene		0.0260	0.0300	87	80-120

Lab Batch #: 919477

Sample: 467260-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/29/13 12:54	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0285	0.0300	95	80-120
4-Bromofluorobenzene		0.0321	0.0300	107	80-120

Lab Batch #: 919477

Sample: 467260-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/29/13 13:10	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0288	0.0300	96	80-120
4-Bromofluorobenzene		0.0286	0.0300	95	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919589

Sample: 641847-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 08:03	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		8.70	10.0	87	70-135
o-Terphenyl		5.06	5.00	101	70-135

Lab Batch #: 919406

Sample: 641657-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 09:43	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0293	0.0300	98	80-120
4-Bromofluorobenzene		0.0284	0.0300	95	80-120

Lab Batch #: 919477

Sample: 641763-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/29/13 09:39	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0296	0.0300	99	80-120
4-Bromofluorobenzene		0.0263	0.0300	88	80-120

Lab Batch #: 919589

Sample: 641847-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 08:24	SURROGATE RECOVERY STUDY			
TPH By SW8015B Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.6	10.0	106	70-135
o-Terphenyl		4.47	5.00	89	70-135

Lab Batch #: 919406

Sample: 641657-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 07/26/13 08:55	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0328	0.0300	109	80-120
4-Bromofluorobenzene		0.0331	0.0300	110	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919477

Sample: 641763-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 07/29/13 08:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 919589

Sample: 641847-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 07/26/13 08:46

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.5	10.0	105	70-135	
o-Terphenyl	5.22	5.00	104	70-135	

Lab Batch #: 919406

Sample: 641657-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 07/26/13 09:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 919477

Sample: 641763-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 07/29/13 09:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 919406

Sample: 467260-008 S / MS

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 07/26/13 12:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Paddock

Work Orders : 467260,

Project ID: 073020

Lab Batch #: 919477

Sample: 467346-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/13 13:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 919406

Sample: 467260-008 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/26/13 12:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 919477

Sample: 467346-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/13 13:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: Lovington Paddock

Work Order #: 467260

Analyst: MAB

Date Prepared: 07/26/2013

Project ID: 073020

Date Analyzed: 07/26/2013

Lab Batch ID: 919406

Sample: 641657-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0983	98	0.100	0.0948	95	4	70-125	25	
Toluene	<0.00200	0.100	0.0999	100	0.100	0.0990	99	1	70-125	25	
Ethylbenzene	<0.00100	0.100	0.113	113	0.100	0.113	113	0	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.223	112	0.200	0.222	111	0	70-131	25	
o-Xylene	<0.00100	0.100	0.115	115	0.100	0.114	114	1	71-133	25	

Analyst: MAB

Date Prepared: 07/29/2013

Date Analyzed: 07/29/2013

Lab Batch ID: 919477

Sample: 641763-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.104	104	0.100	0.106	106	2	70-125	25	
Toluene	<0.00200	0.100	0.0960	96	0.100	0.0981	98	2	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0951	95	0.100	0.0970	97	2	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.187	94	0.200	0.191	96	2	70-131	25	
o-Xylene	<0.00100	0.100	0.0927	93	0.100	0.0944	94	2	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: Lovington Paddock

Work Order #: 467260

Analyst: KAN

Date Prepared: 07/25/2013

Project ID: 073020

Date Analyzed: 07/26/2013

Lab Batch ID: 919589

Sample: 641847-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C10 Gasoline Range Hydrocarbons	<1.50	100	109	109	100	110	110	1	70-135	25	
C10-C28 Diesel Range Hydrocarbons	<1.50	100	92.0	92	100	91.2	91	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Lovington Paddock

Work Order # : 467260

Project ID: 073020

Lab Batch ID: 919406

QC- Sample ID: 467260-008 S

Batch #: 1 Matrix: Water

Date Analyzed: 07/26/2013

Date Prepared: 07/26/2013

Analyst: MAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0849	85	0.100	0.0882	88	4	70-125	25	
Toluene	<0.00200	0.100	0.0925	93	0.100	0.0928	93	0	70-125	25	
Ethylbenzene	<0.00100	0.100	0.109	109	0.100	0.107	107	2	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.217	109	0.200	0.210	105	3	70-131	25	
o-Xylene	<0.00100	0.100	0.115	115	0.100	0.108	108	6	71-133	25	

Lab Batch ID: 919477

QC- Sample ID: 467346-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 07/29/2013

Date Prepared: 07/29/2013

Analyst: MAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.116	116	0.100	0.119	119	3	70-125	25	
Toluene	<0.00200	0.100	0.108	108	0.100	0.107	107	1	70-125	25	
Ethylbenzene	<0.00100	0.100	0.106	106	0.100	0.104	104	2	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.208	104	0.200	0.206	103	1	70-131	25	
o-Xylene	<0.00100	0.100	0.104	104	0.100	0.103	103	1	71-133	25	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



- ☐ 4143 Greenbrier Drive, Stafford, Tx 77477 281-240-4200
☐ 5332 Blackberry Drive, San Antonio, Tx 78238 210-509-3334
☐ 9701 Harry Hines Blvd., Dallas, Tx 75220 214-902-0300

- ☒ 12600 West I-20 East, Odessa, Tx 79765 432-569-1800
☐ 842 Cantwell, Corpus Christi, Tx 78408 361-884-0371

Serial #: 239731 Page 1 of 2

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Company City

CLC - Midland

Phone 432-686-0086

Project Name-Location

Previously done at XENCO
Lovingston Jeddock

Project ID 073020

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Remarks

Proj State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other

Proj Manager (PM) Jero Schmale

e-Mail Results to: JPM and J Schmale @ ccrs-world.com

Fax No: 432-686-0186

Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.

Bill to:

Quote/Pricing:

P.O. No:

☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLS (GW DW QAPP MDLs RLS See Lab PM Included Call PM)

Sampler Name Justin Nixon Signature Jero Schmale

Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs: Full-L	VOC's PP T	PAHs	TX-1005 DR	SVOCs: Full-L	OC Pesticides	Metals: RCRA	SPLP - TCLF	EDB / DBCP	TAT ASAP	Addn: PAH at	Hold Samples	Sample Cle	Addn:
MW072413	7-24-13	1140		W	X	2				HCL										X BTEX				
MW02 072413	7-24-13	1305																		X TPH				
BW1 072313	7-23-13	1140																						
MWL 072313	7-23-13	1445																						
MWL072313	7-23-13	1655																						
MWw 072413	7-24-13	940																						
DW1072313	7-23-13	-																						
DW2072413	7-24-13	-																						
BW2072413	7-24-13	1050																						
MW1 072413	7-24-13	1200																						
Relinquished by (Initials and Sign)			Date & Time			Relinquished to (Initials and Sign)			Date & Time			Total Containers per COC:			Cooler Temp:									
Jero Schmale			7-24-13 10:40			Jero Schmale			7-24-13 10:40			2			50									
Jero Schmale			7-24-13 10:40			Jero Schmale			7-24-13 10:40			2			50									
Jero Schmale			7-24-13 10:40			Jero Schmale			7-24-13 10:40			2			50									

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other

Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid(S), Water (W), Liquid (L)

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www.xenco.com

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
5332 Blackberry Drive, San Antonio, TX 78238 210-509-3334
9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300

12600 West I-20 East, Odessa, TX 79765 432-569-1800
842 Cantwell, Corpus Christi, TX 78408 361-884-0371

Serial #: 239728 Page 2 of 2

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Company City: <u>CLP - Midland</u>		Phone: <u>432-686-0086</u>																											
Project Name-Location: <u>Conington Ranch</u>		Project ID: <u>673020</u>																											
Previously done at XENCO: ☐																													
Proj State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM): <u>John S. Smith</u>																											
e-Mail Results to: <u>CLP</u>		Fax No: <u>432-686-0180</u>																											
Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.																													
Bill to:																													
Quote/Pricing:		P.O. No: ☐ Call for P.O.																											
Reg Program: <u>UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP</u>																													
CAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:																													
Special DLS (GW DW GAPP MDLS RLS See Lab PM Included Call PM)																													
Sampler Name: <u>John N. Khan</u>	Signature: <u>[Signature]</u>																												
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOC's PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks					
1 Bu 302243	7-24-13	1345		W			12			Hid																			
2 MW 072313	7-23-13	1740																											
3 MW 072313	7-23-13	1550																											
4 MW 072313	7-23-13	1140																											
5 MW 072313	7-23-13	1005																											
6																													
7																													
8																													
9																													
10																													
Relinquished by (Initials and Sign): <u>[Signature]</u>		Date & Time: <u>7-24-13 16:40</u>		Relinquished to (Initials and Sign): <u>[Signature]</u>		Date & Time: <u>7-24-13 16:40</u>		Total Containers per COC: <u>5</u>		Cooler Temp: <u>5.0</u>																			
Upon signing this COC, you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.																													

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Aspb Acid&NaOH (A), ZnAc&NaOH (Z), (Cool <4C) (C), None (NA). See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____
Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

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Matrix: Air (A), Product (P), Solid(S), Water (W), Liquid (L)
Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 07/24/2013 04:40:00 PM

Work Order #: 467260

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 07/29/2013

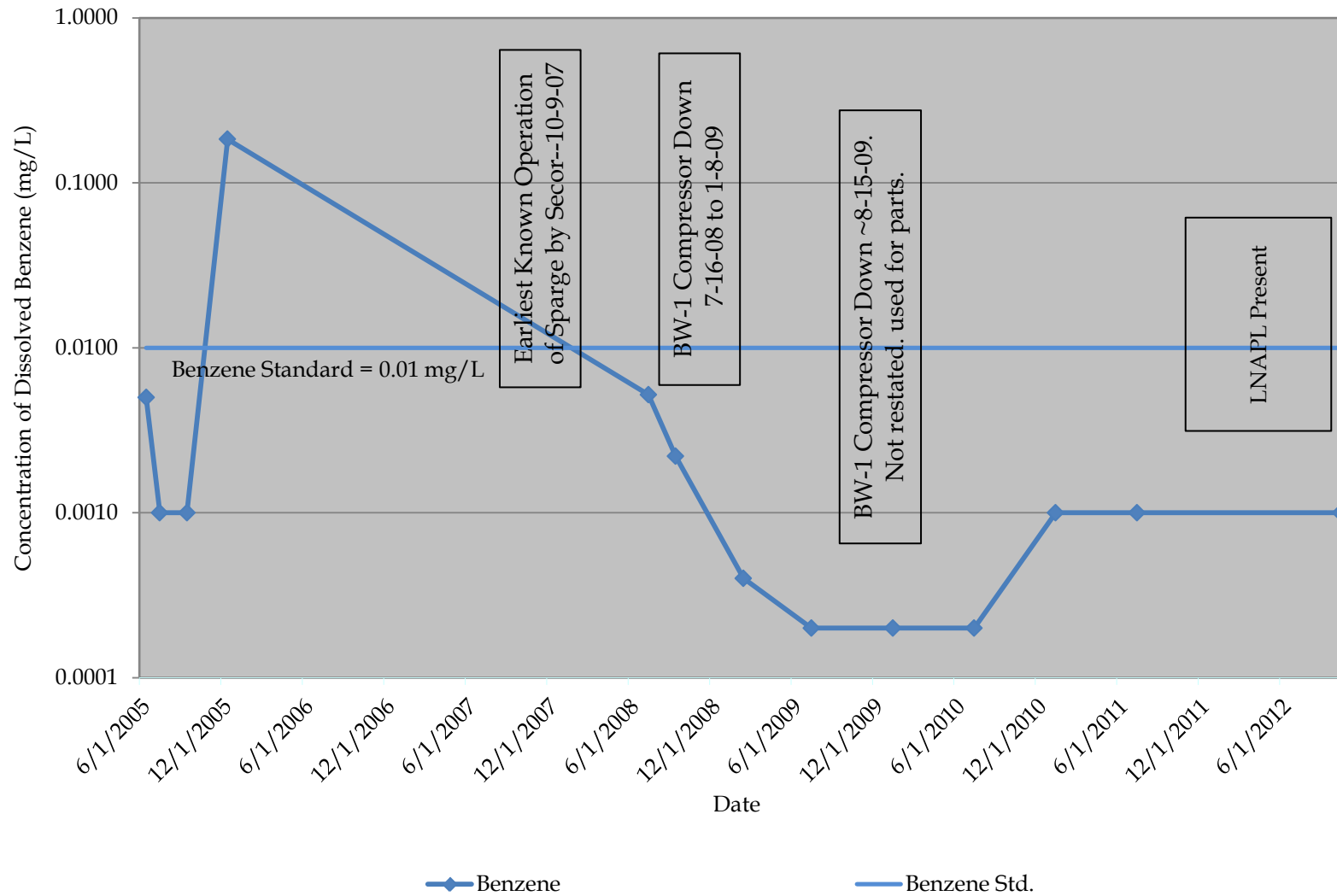
Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

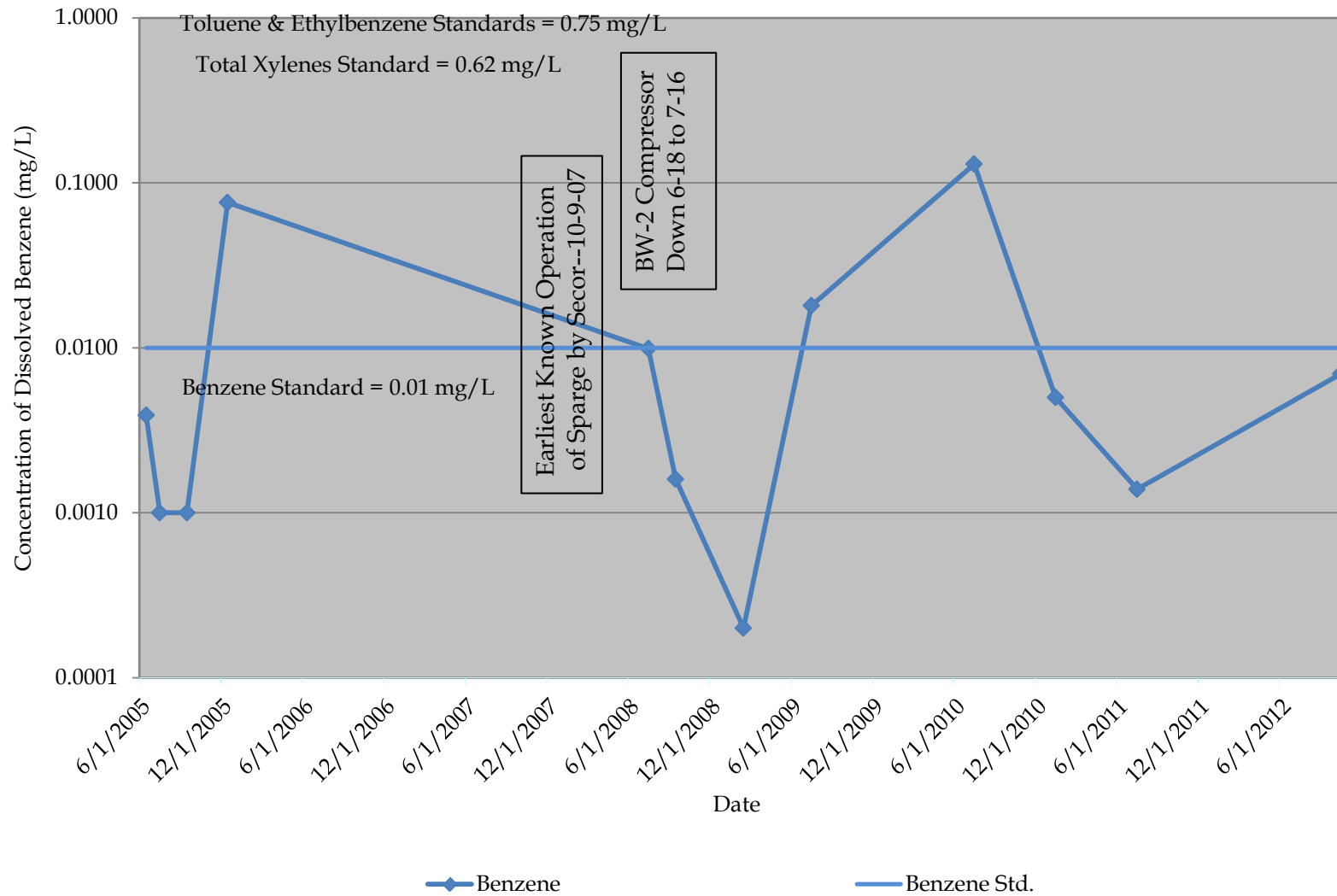
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Appendix D

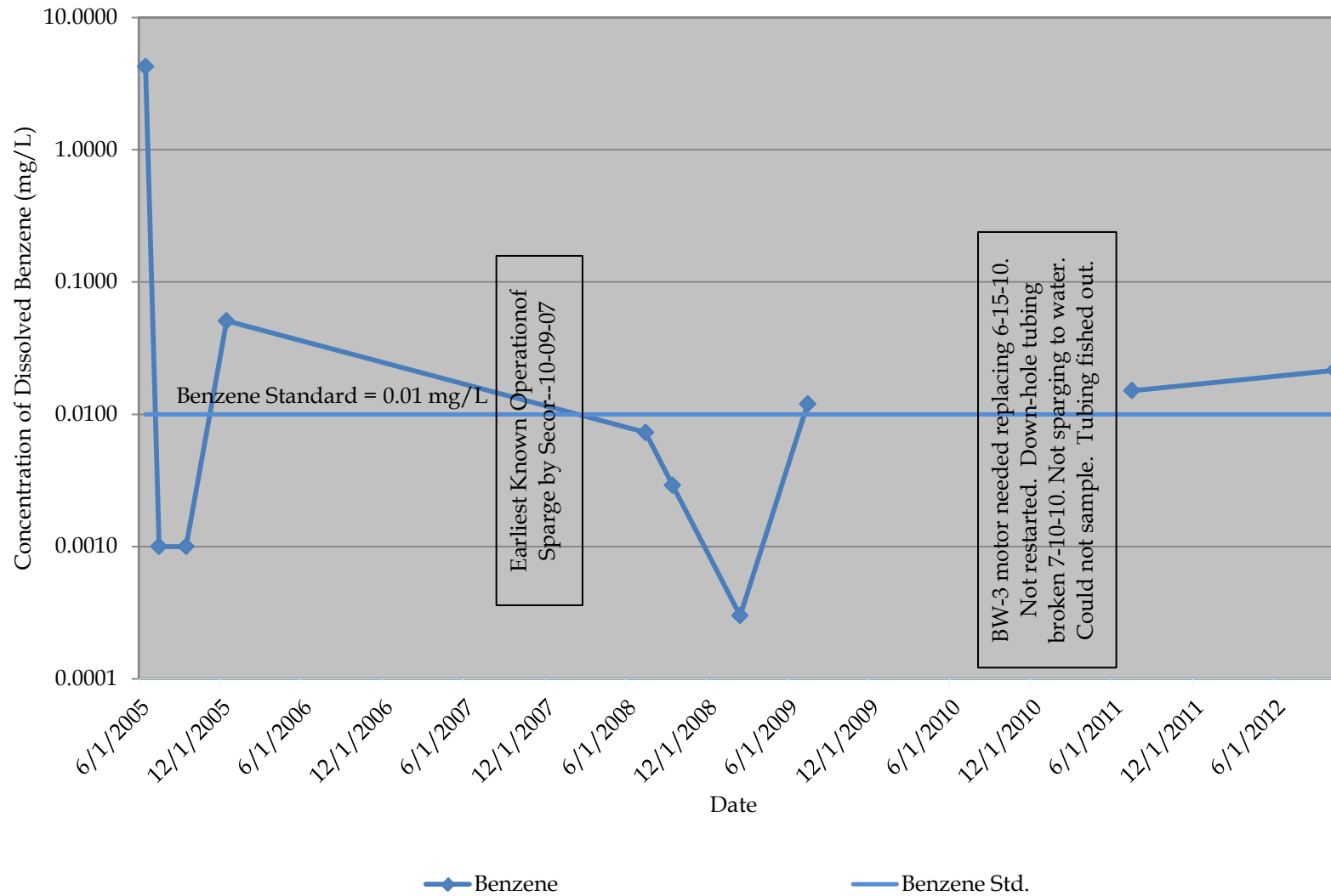
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Section 1-T17S-R36E, Lea County, NM
BW-1



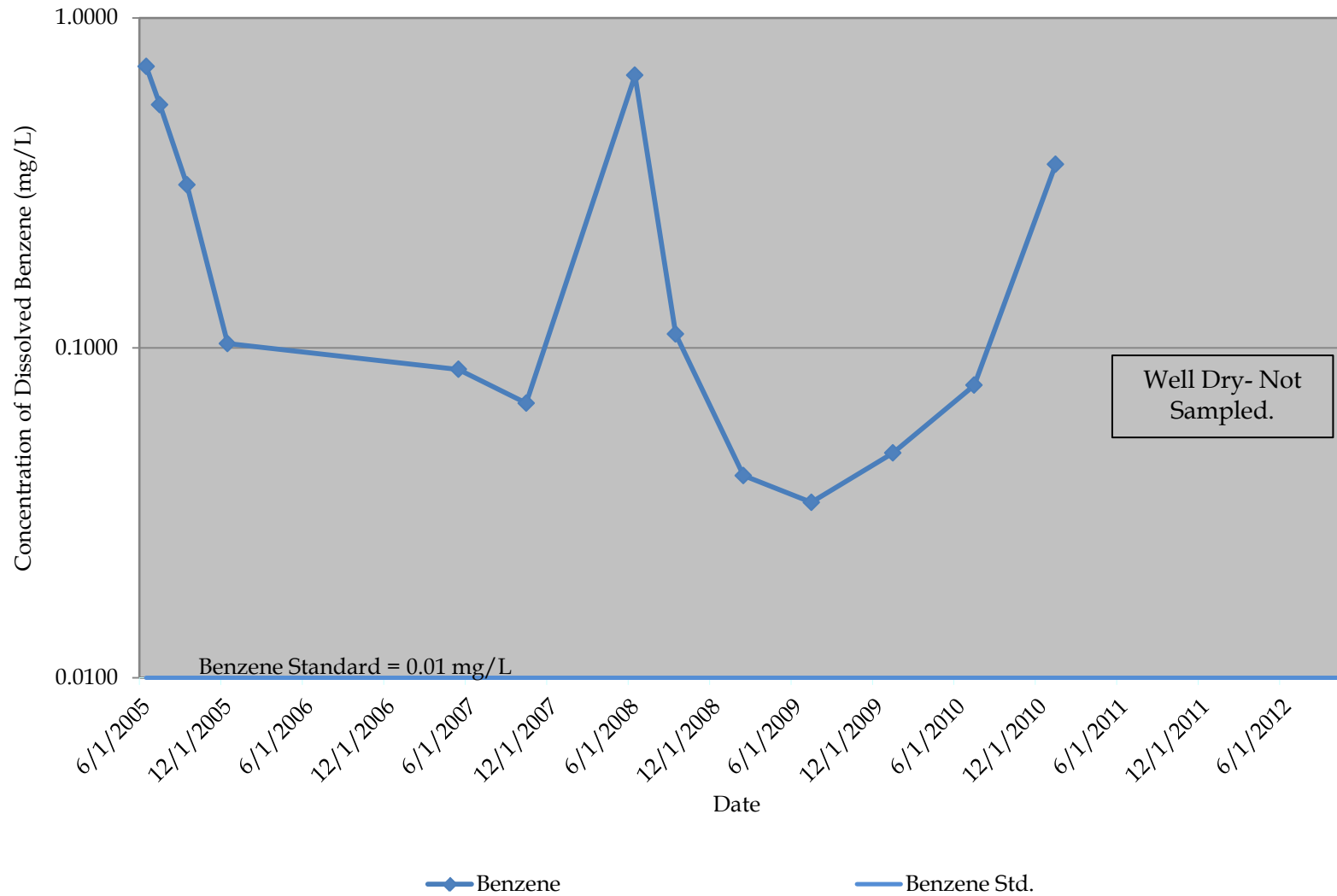
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BW-2



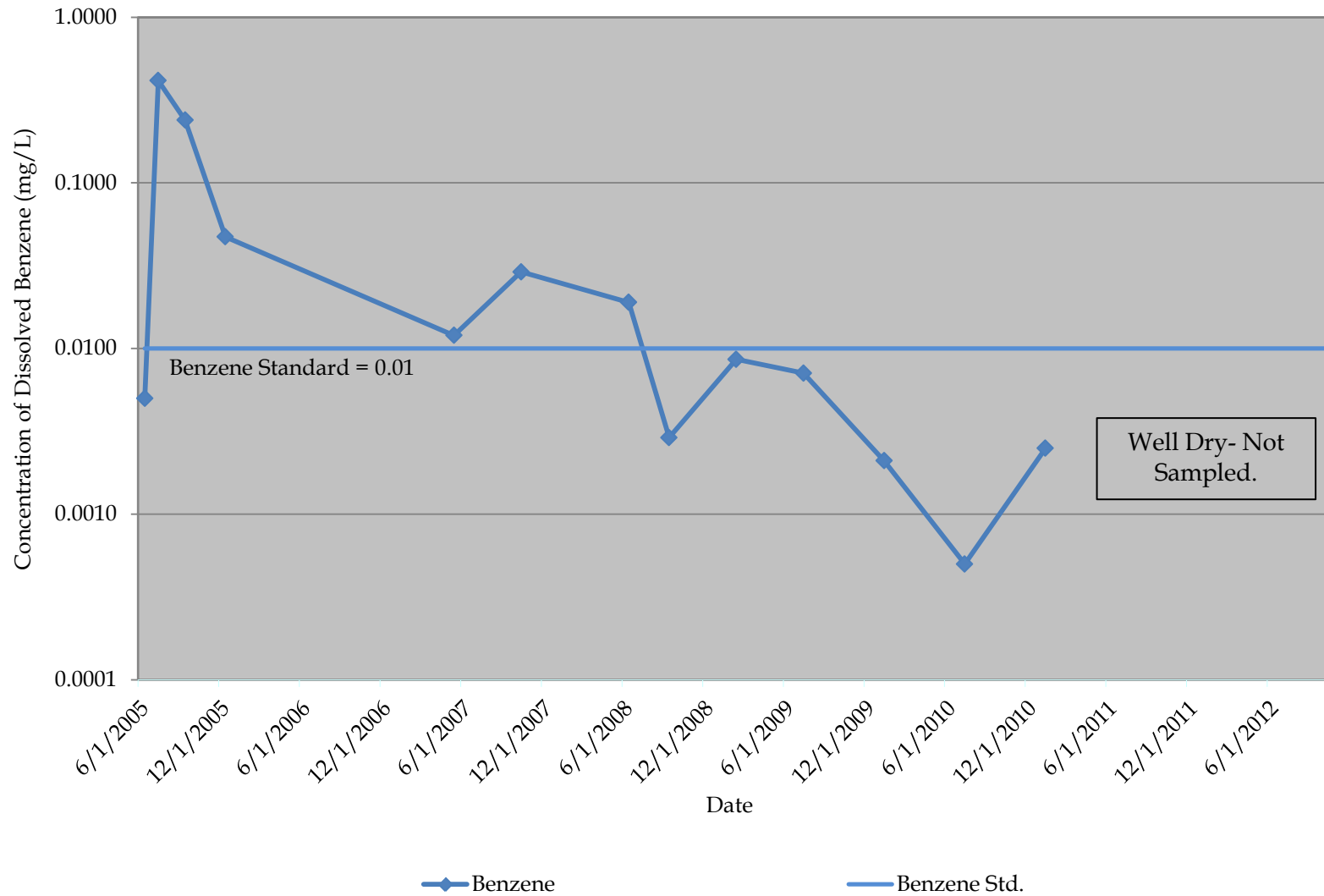
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Section 1-T17S-R36E, Lea County, NM
BW-3



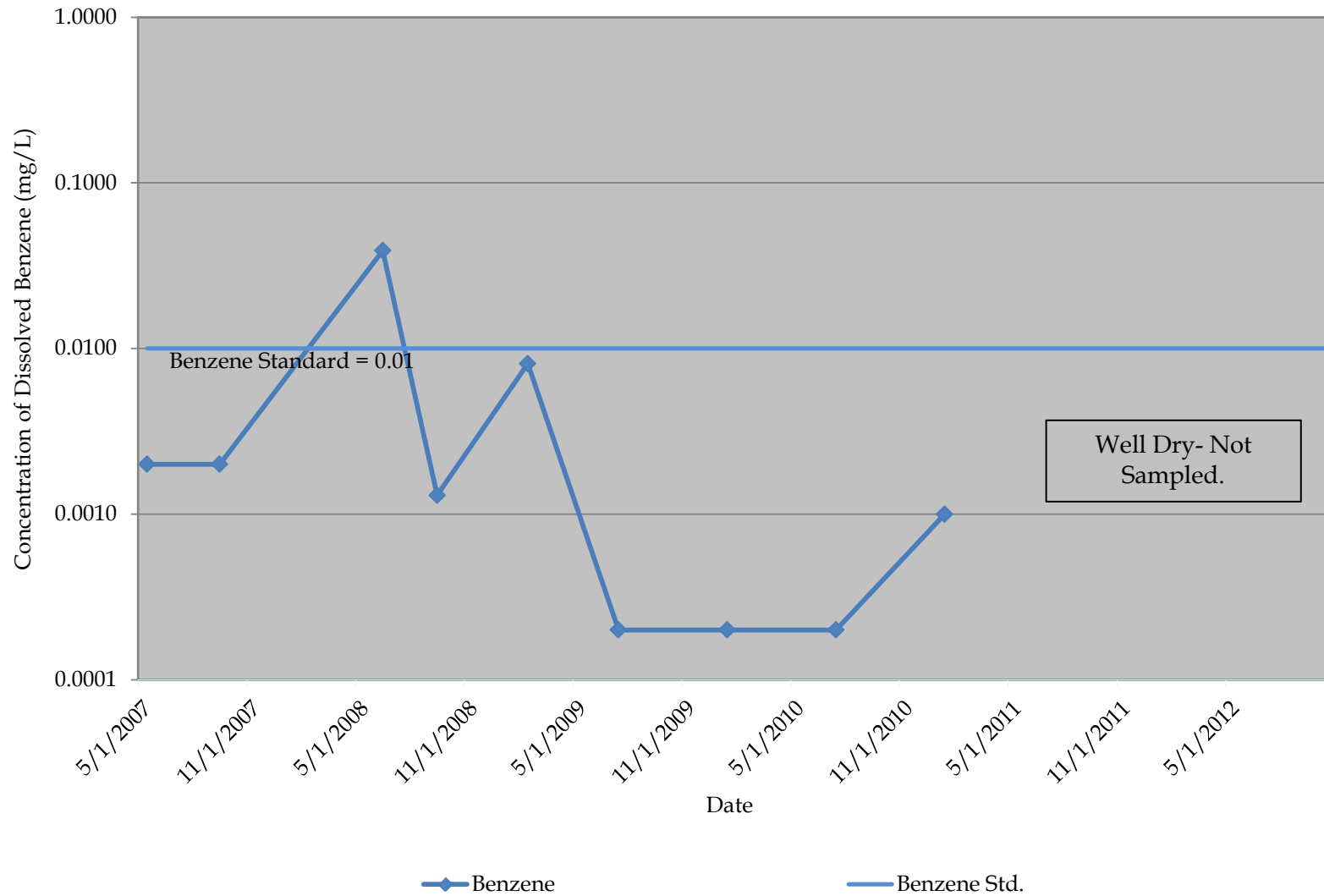
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
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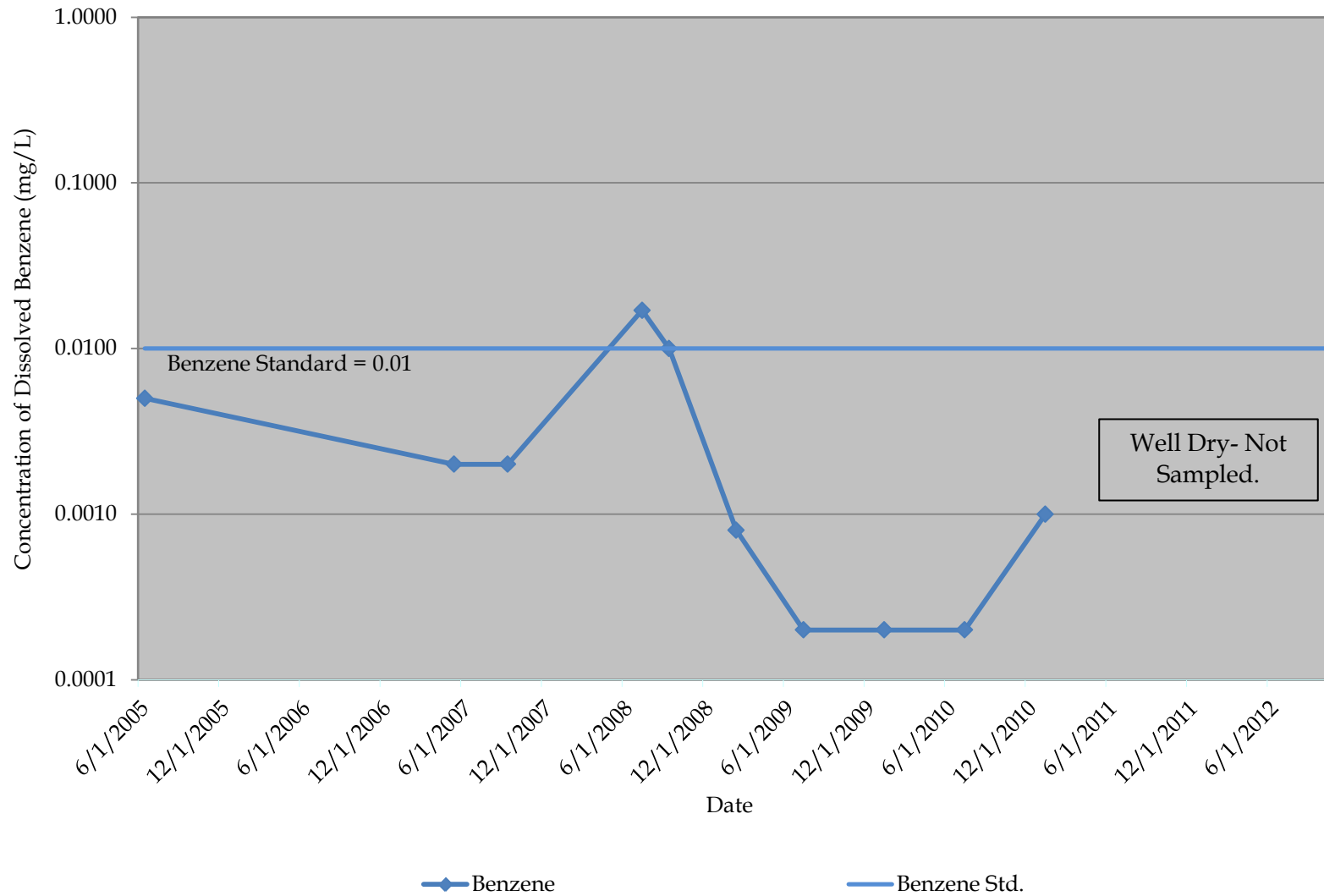
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-C



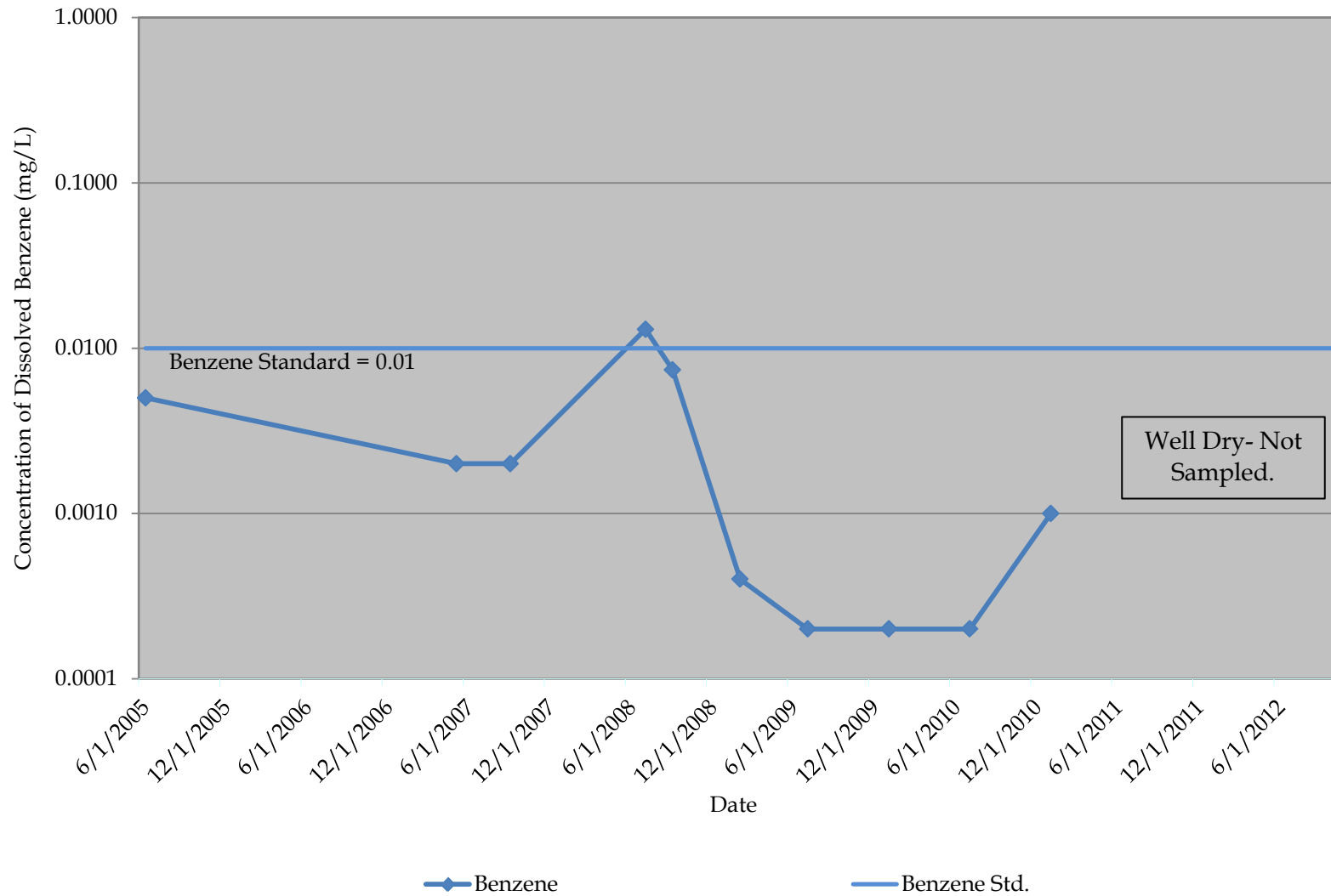
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-D



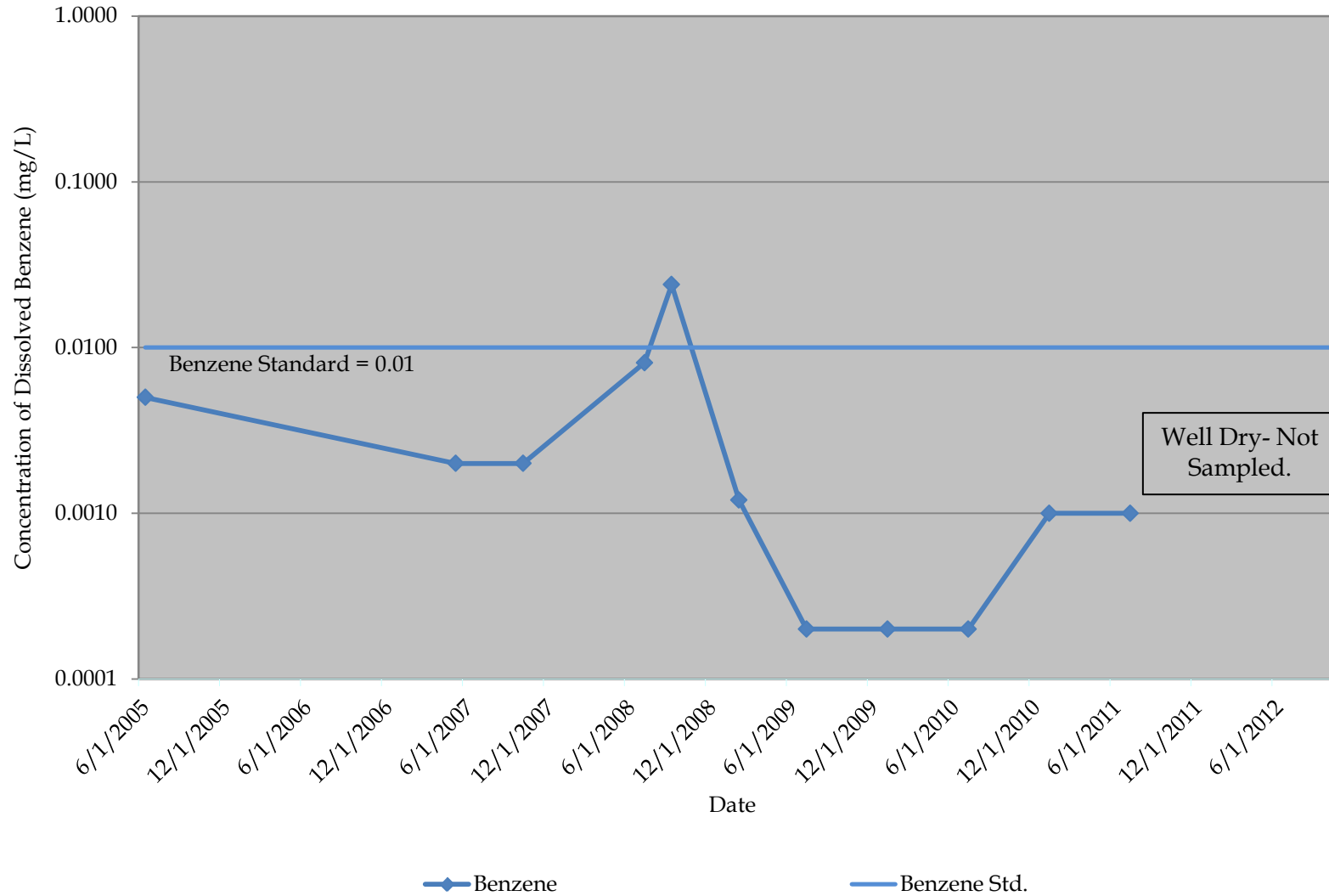
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-E



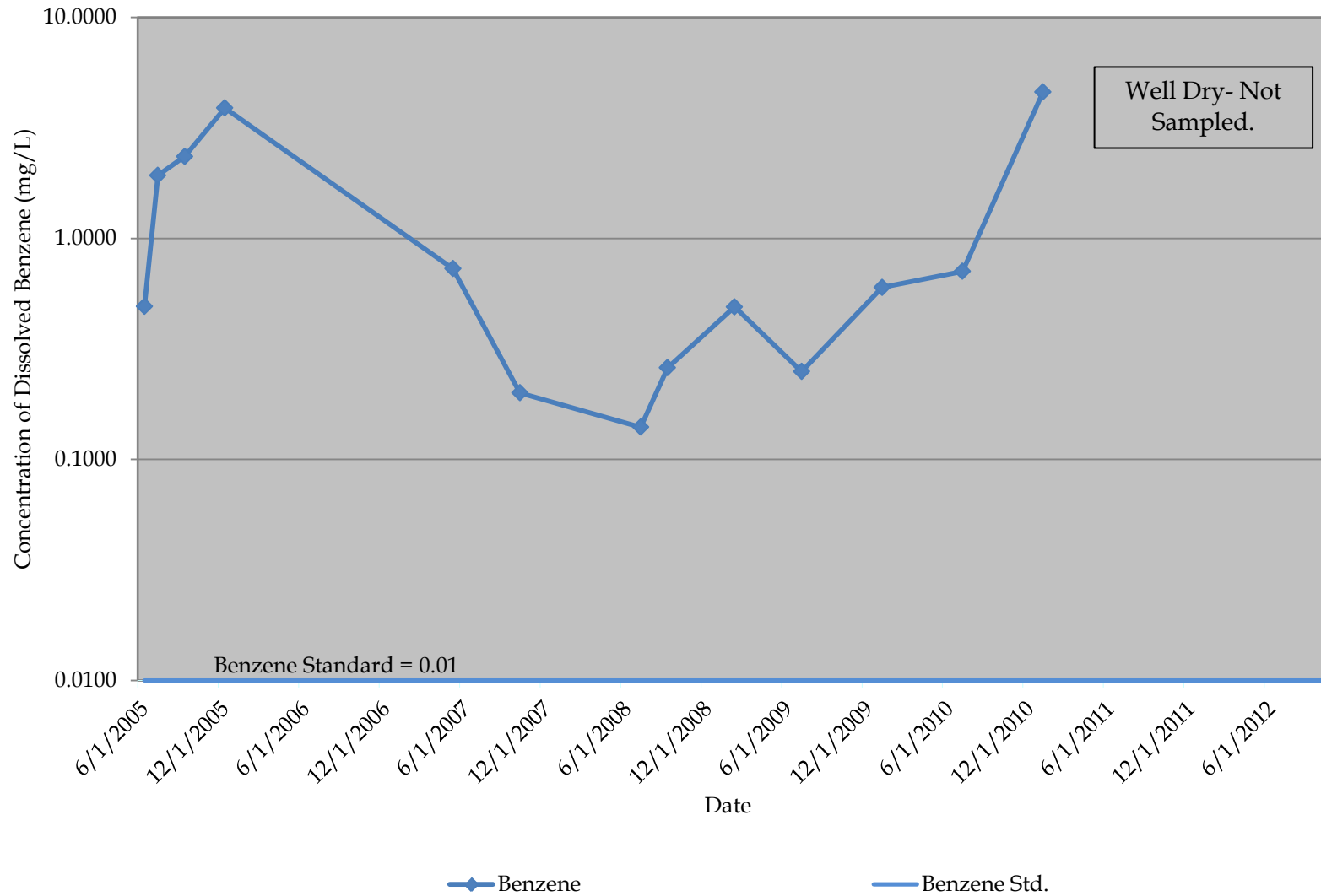
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
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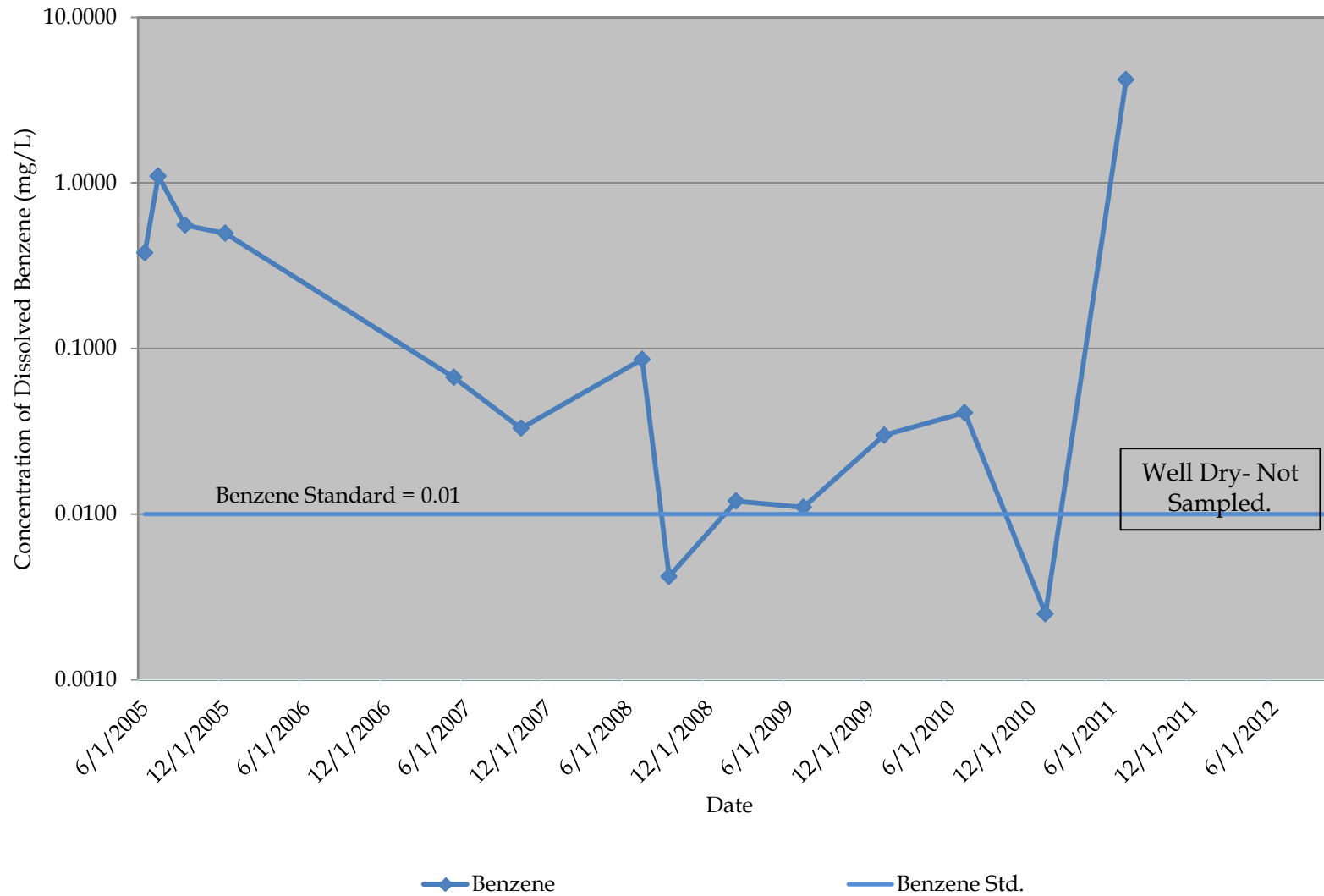
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Section 1-T17S-R36E, Lea County, NM
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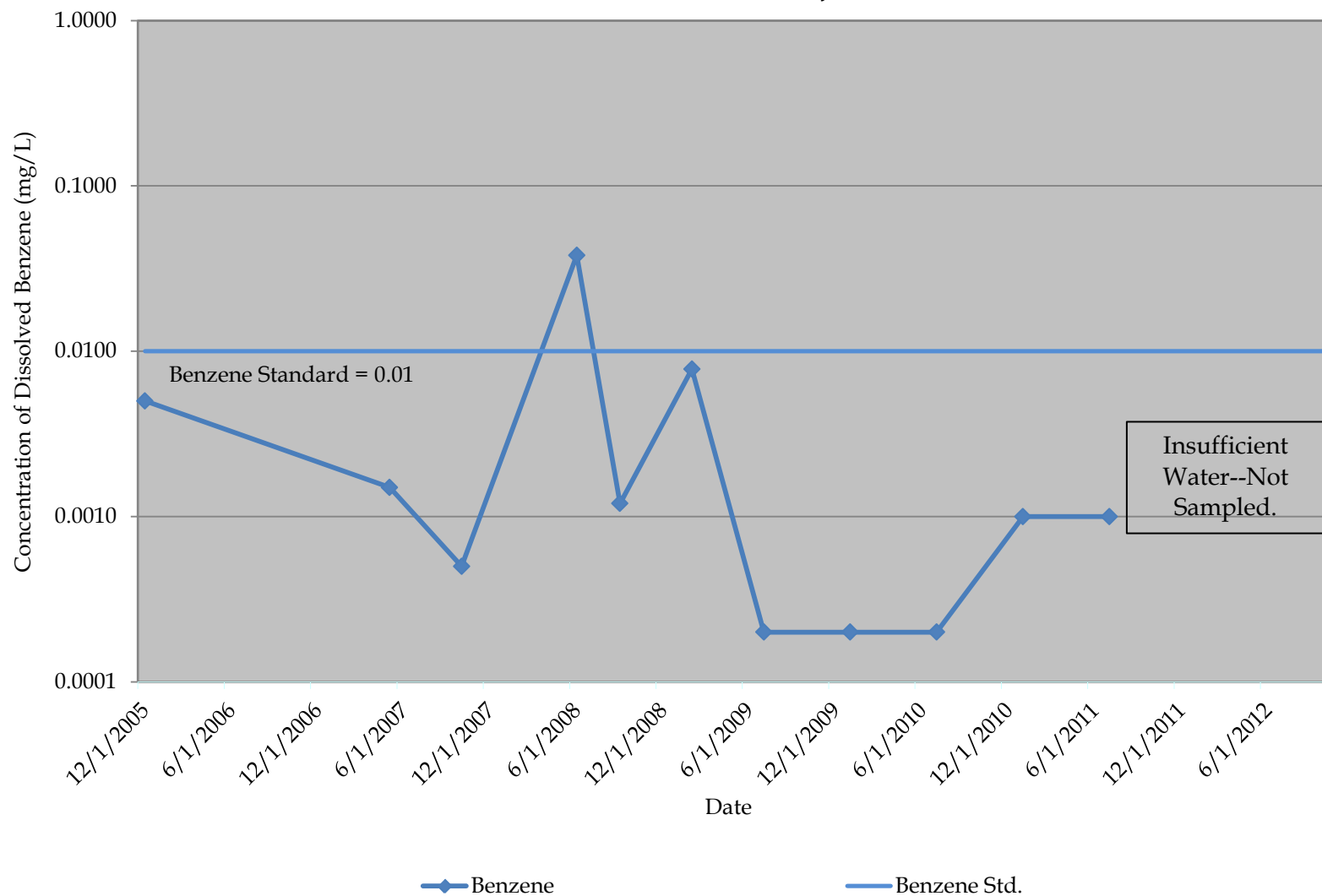
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Section 1-T17S-R36E, Lea County, NM
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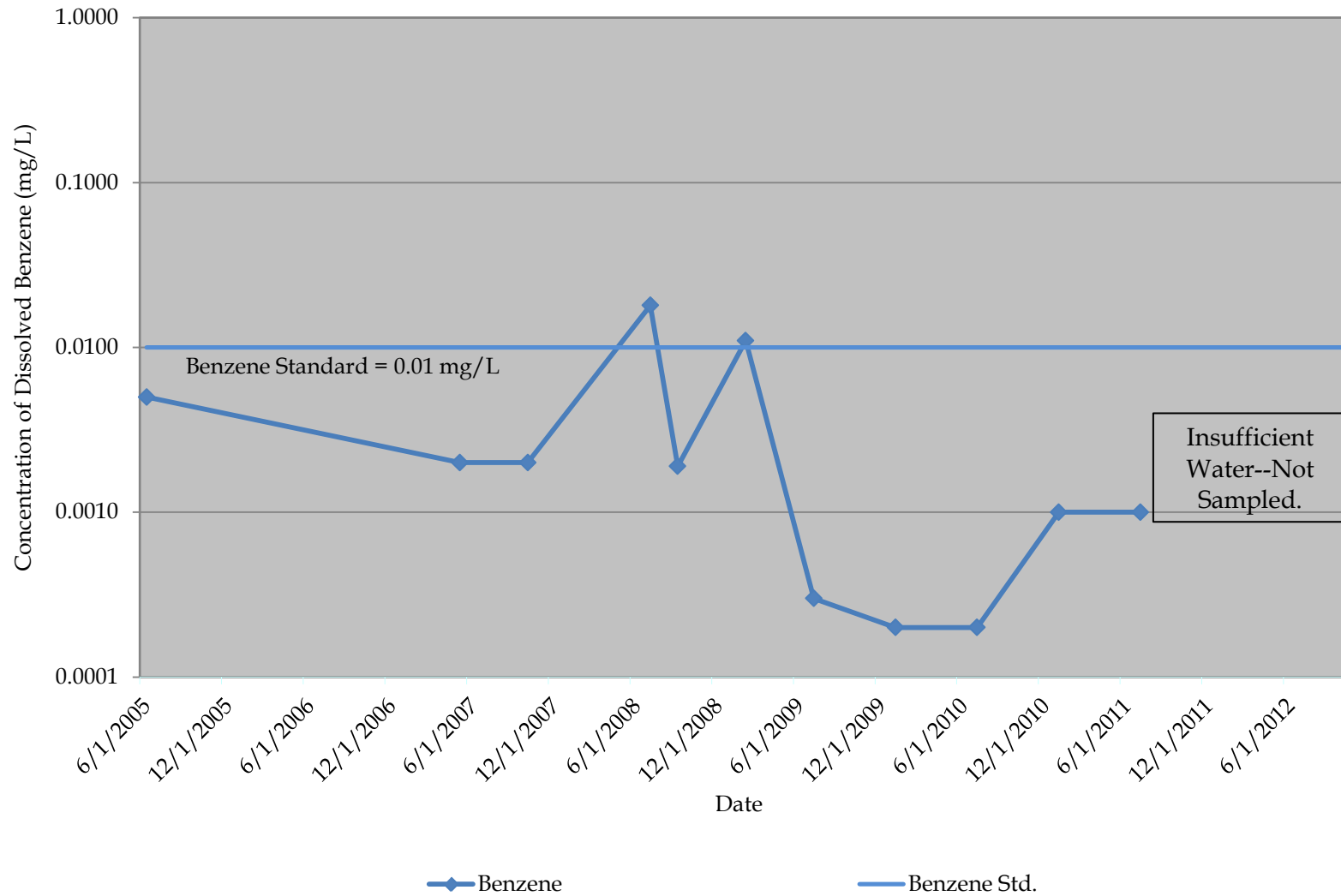
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
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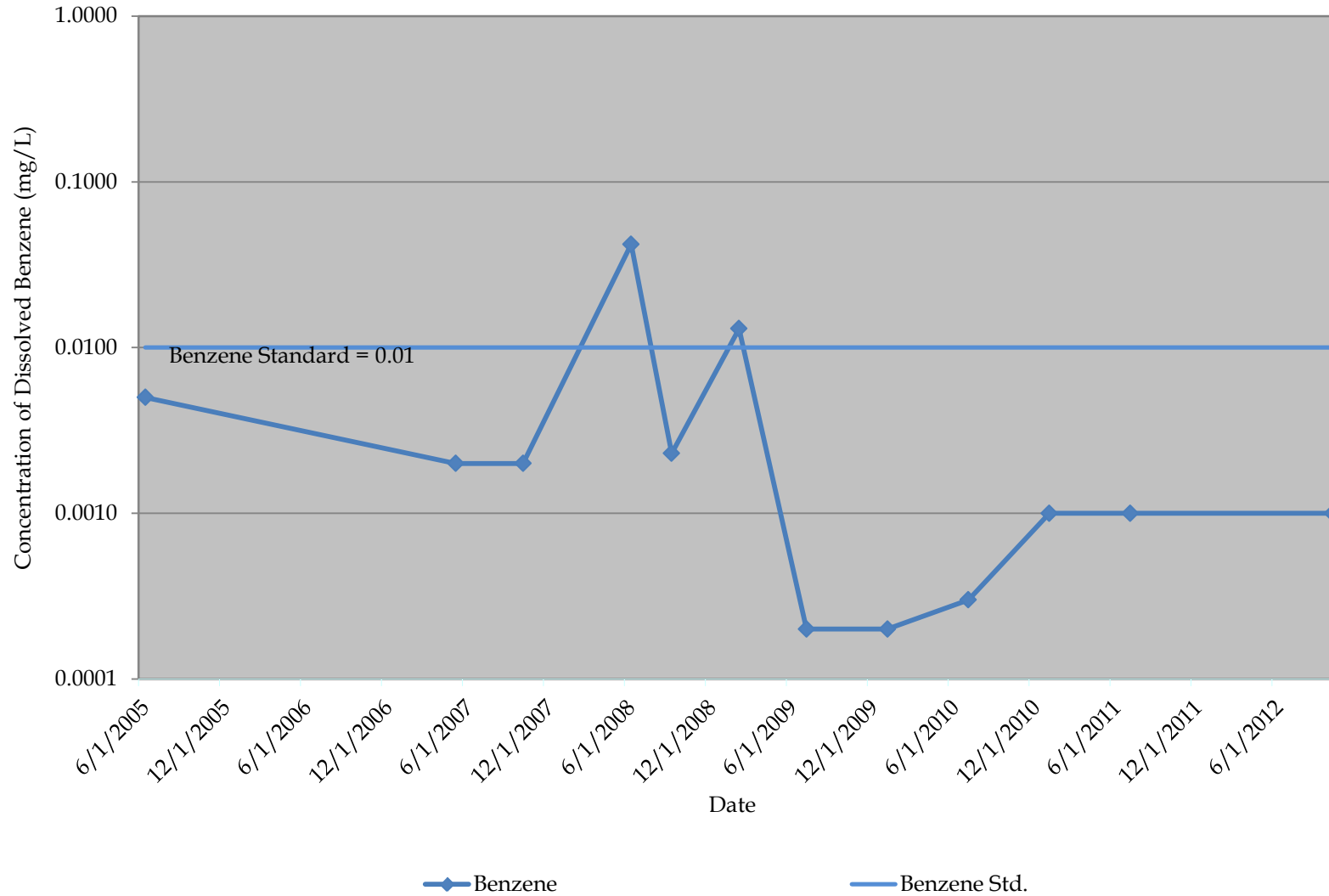
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
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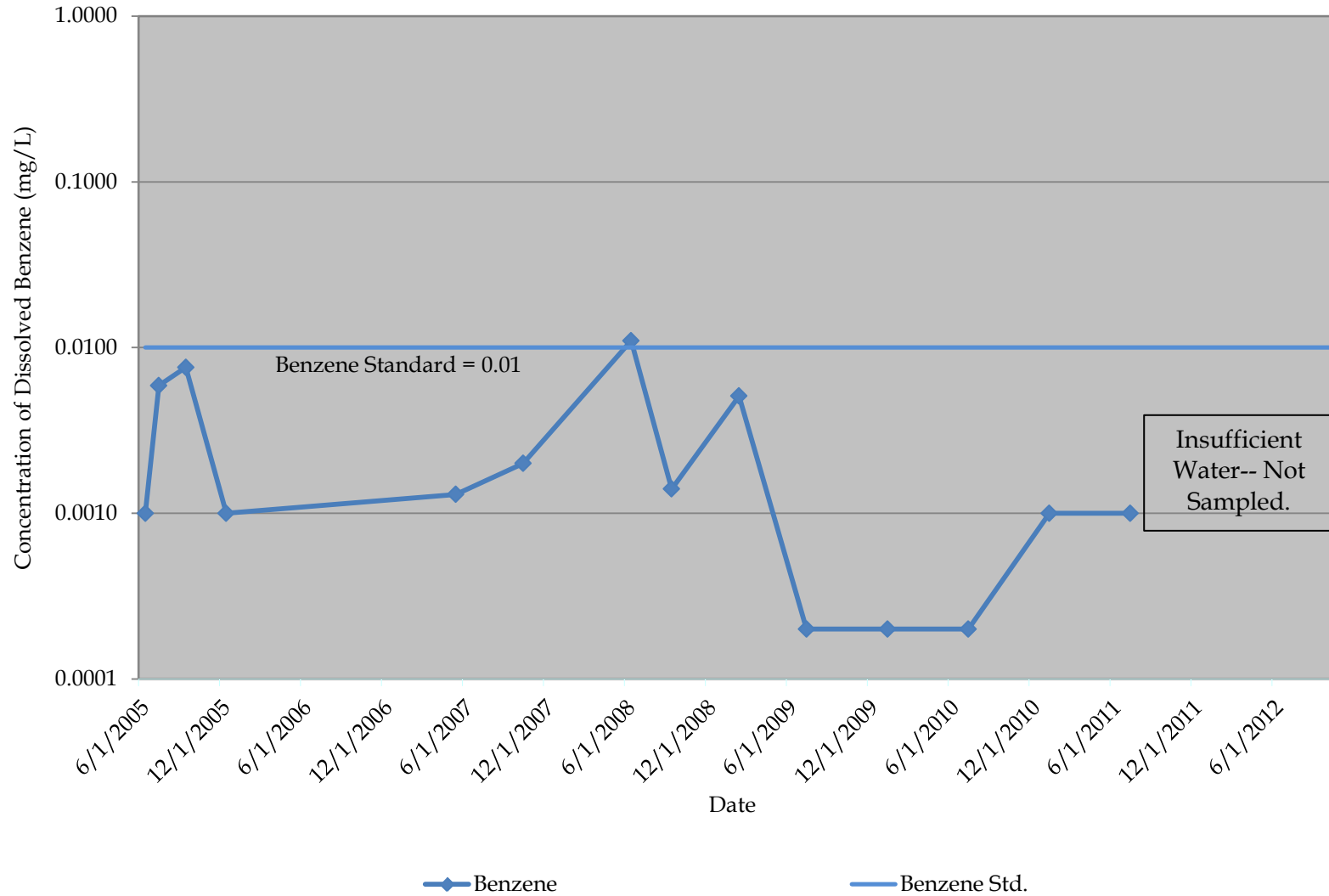
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Section 1-T17S-R36E, Lea County, NM
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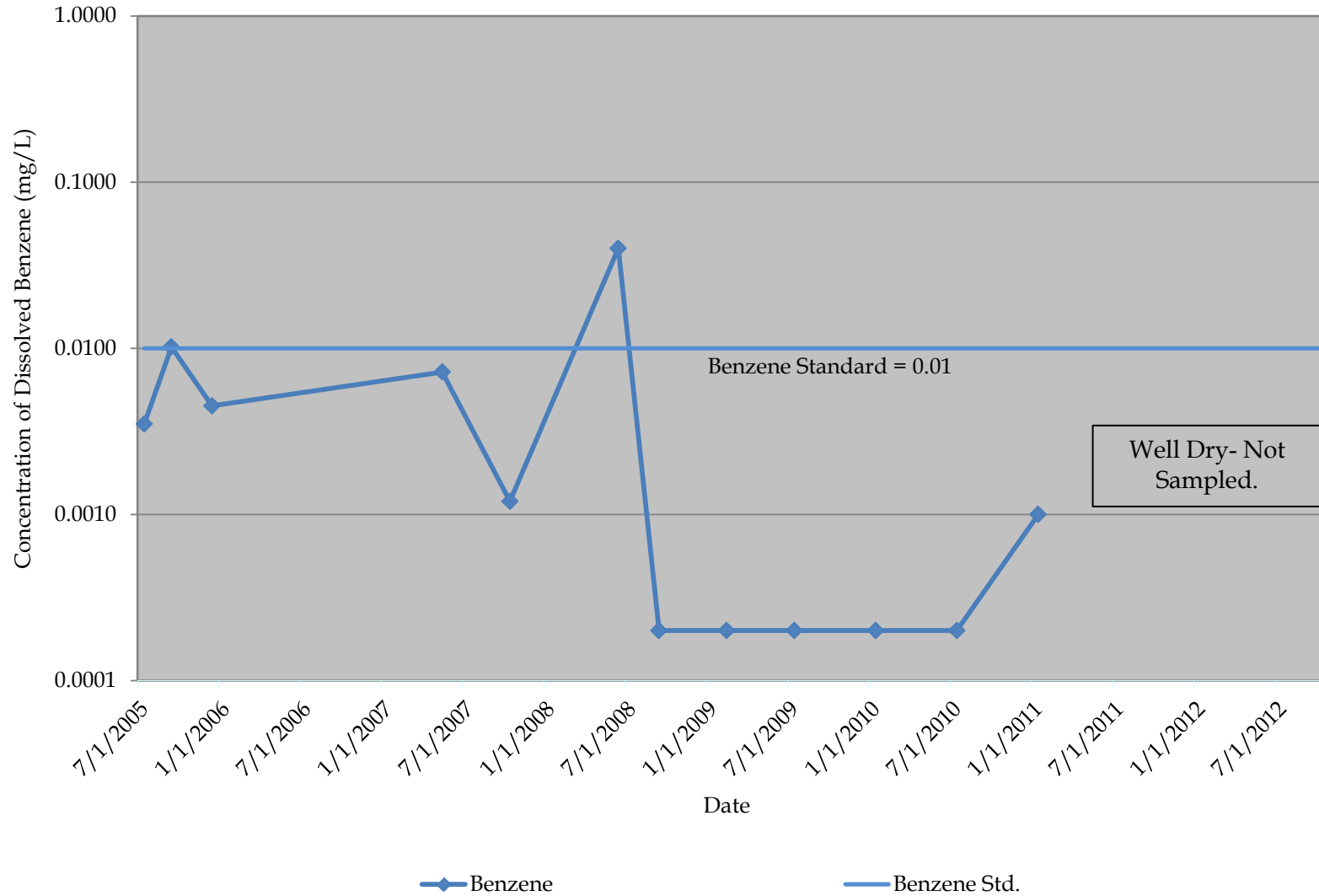
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
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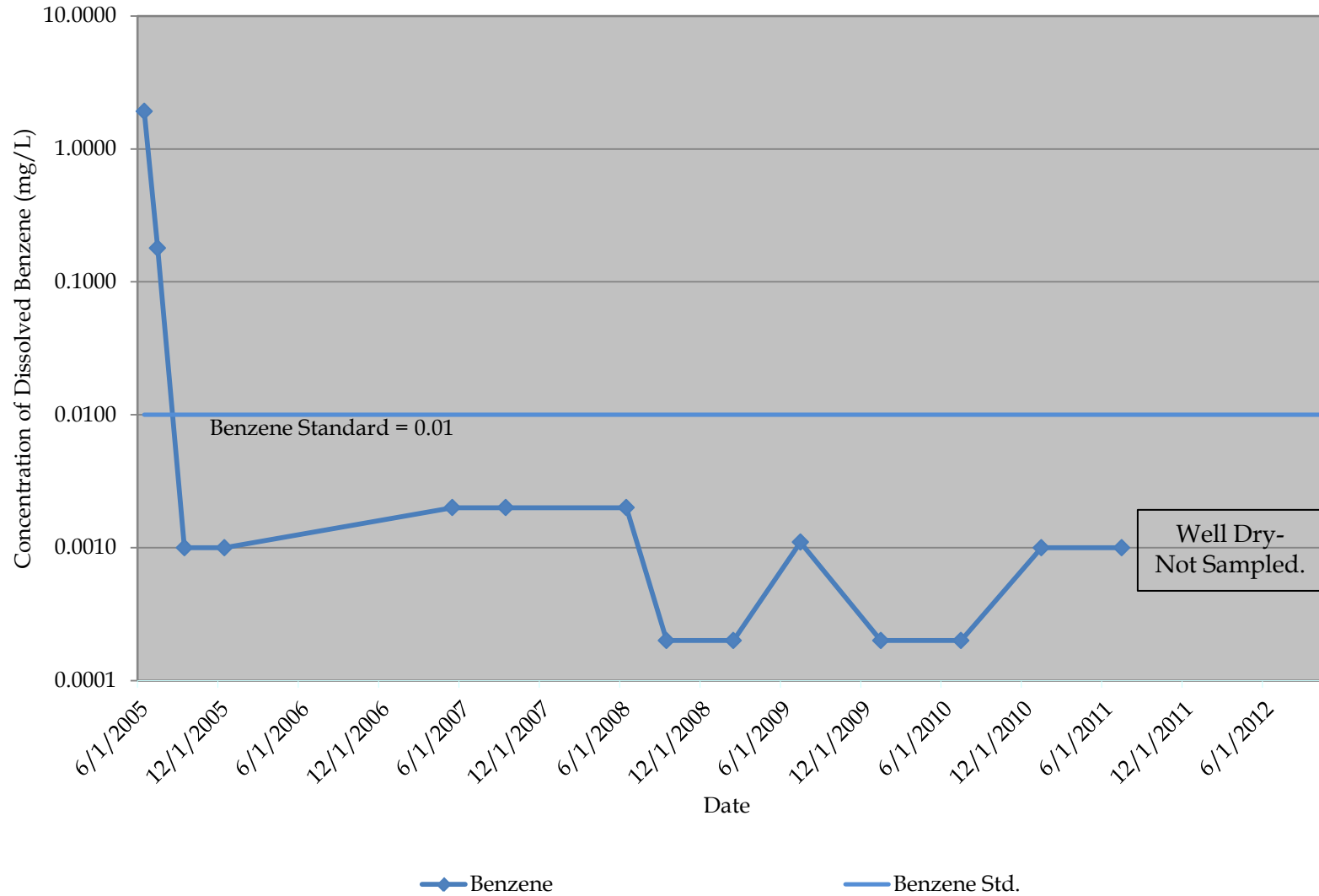
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Section 1-T17S-R36E, Lea County, NM
MW-N



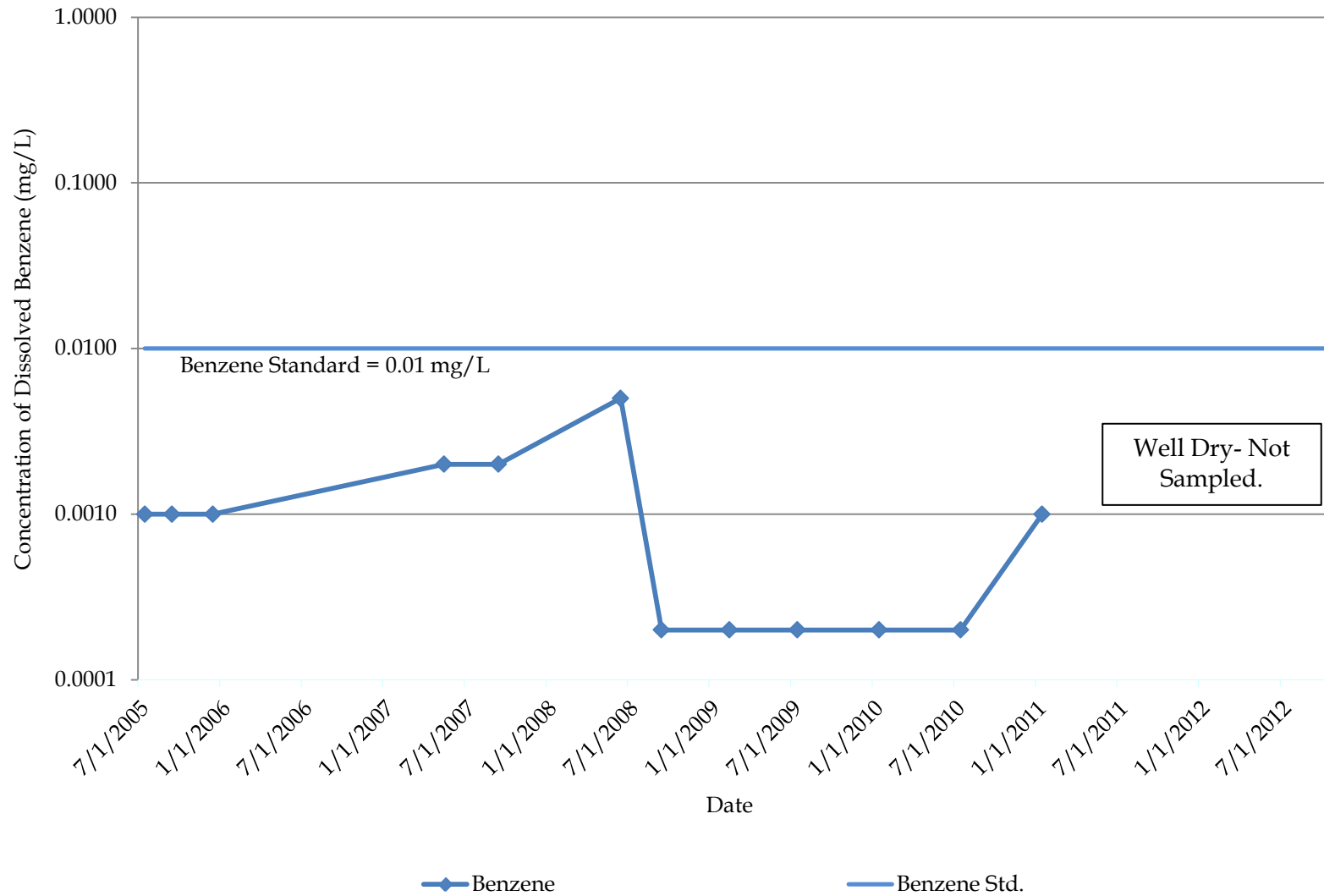
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Section 1-T17S-R36E, Lea County, NM
MW-O



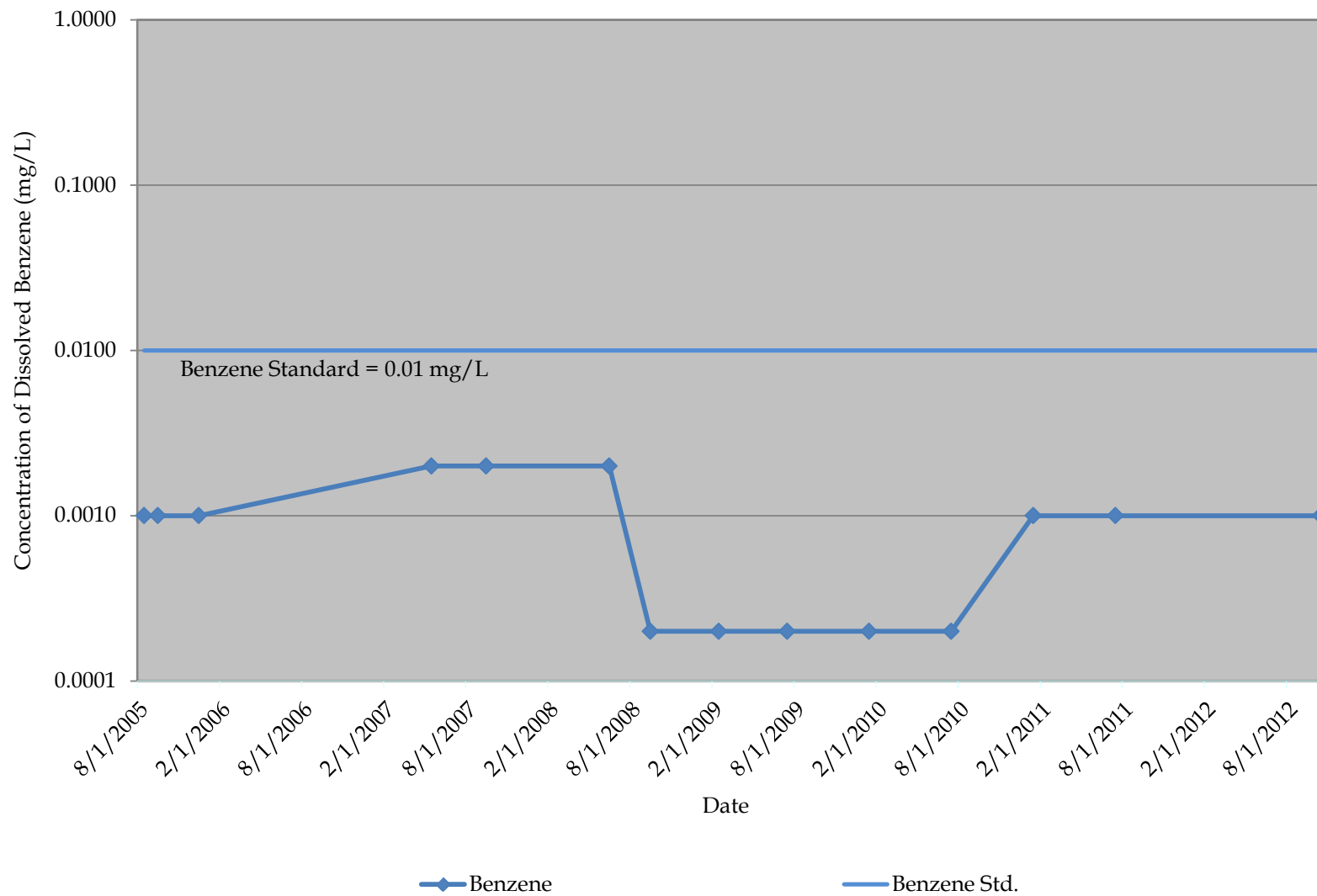
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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-P



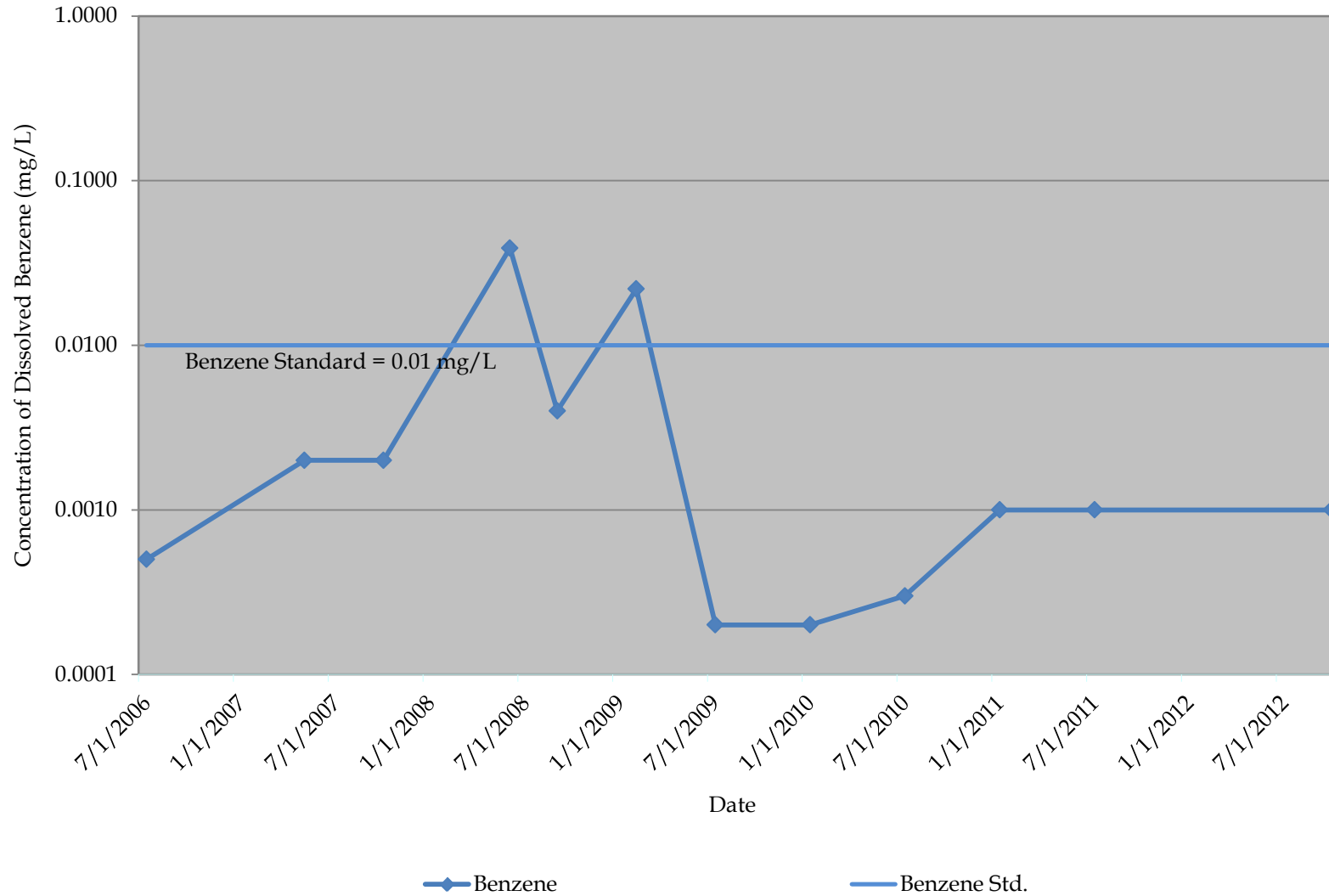
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Section 1-T17S-R36E, Lea County, NM
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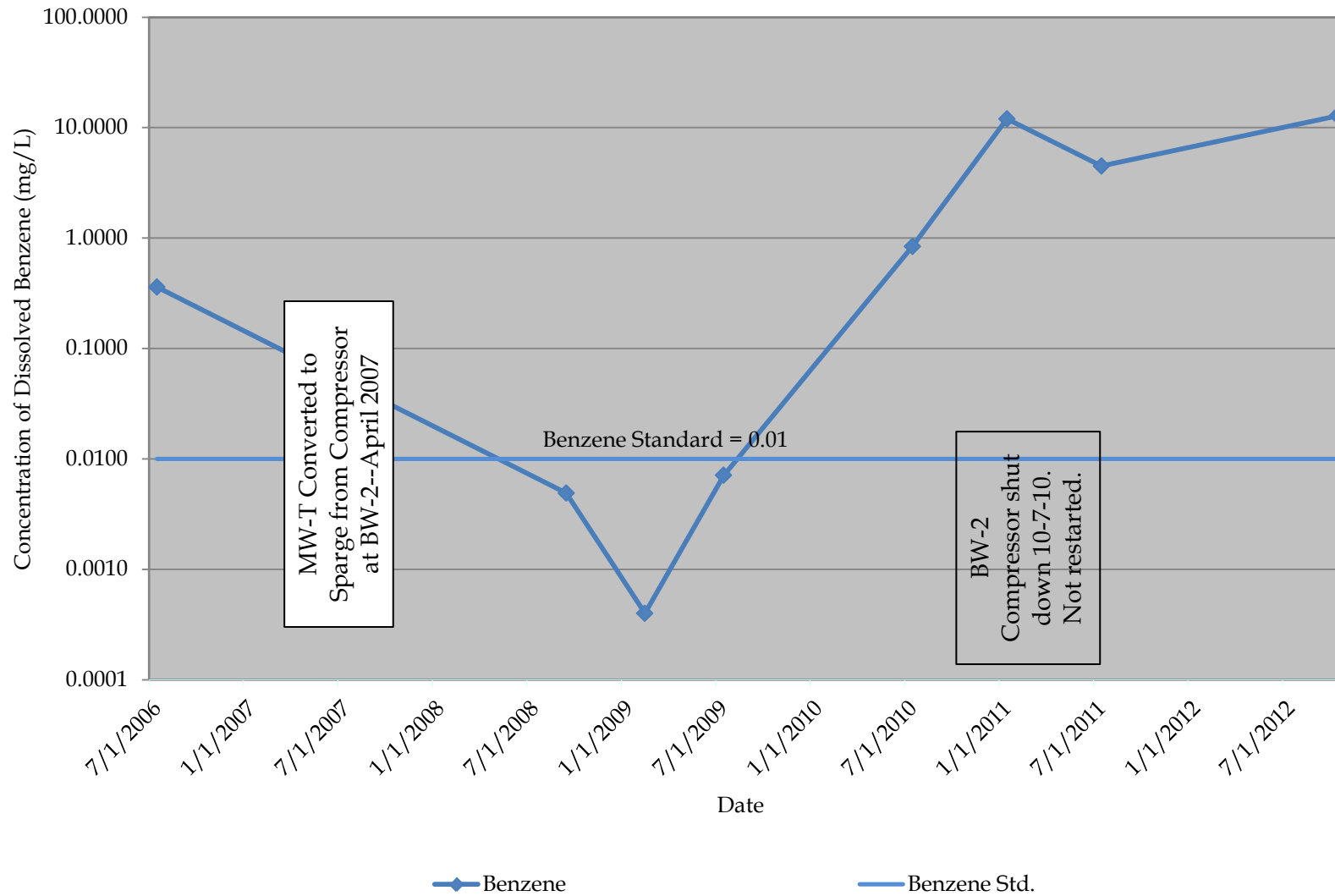
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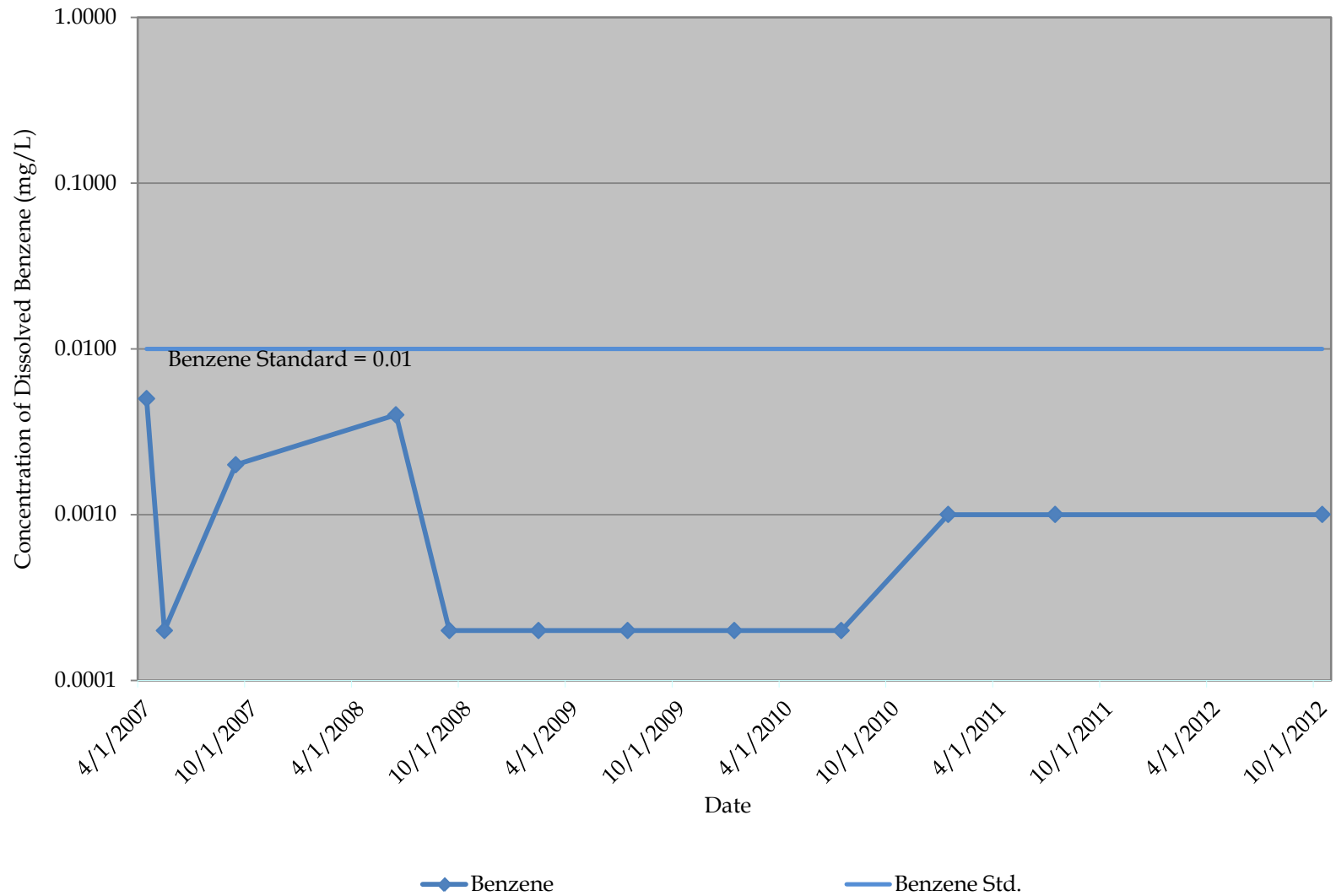
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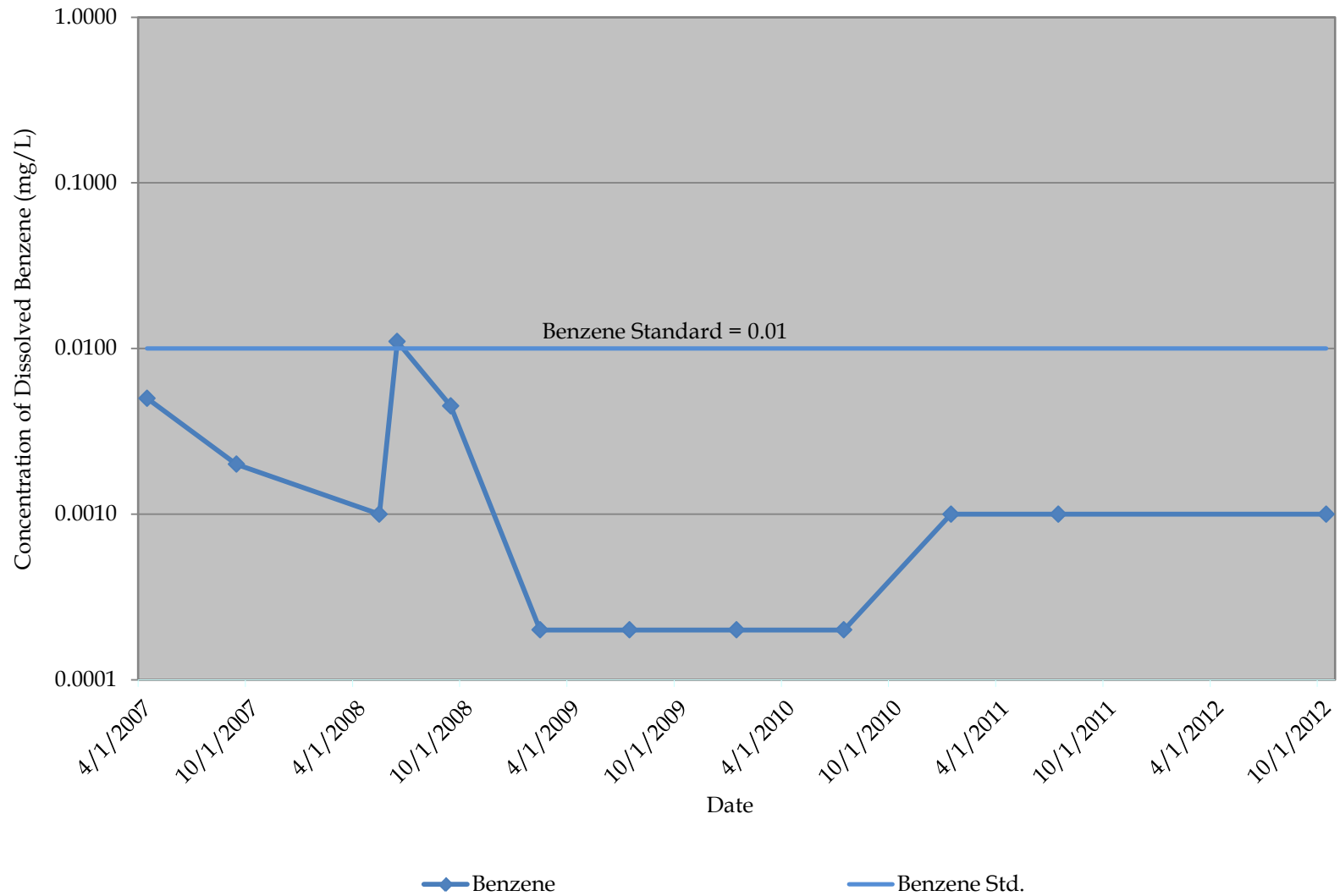
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Section 1-T17S-R36E, Lea County, NM
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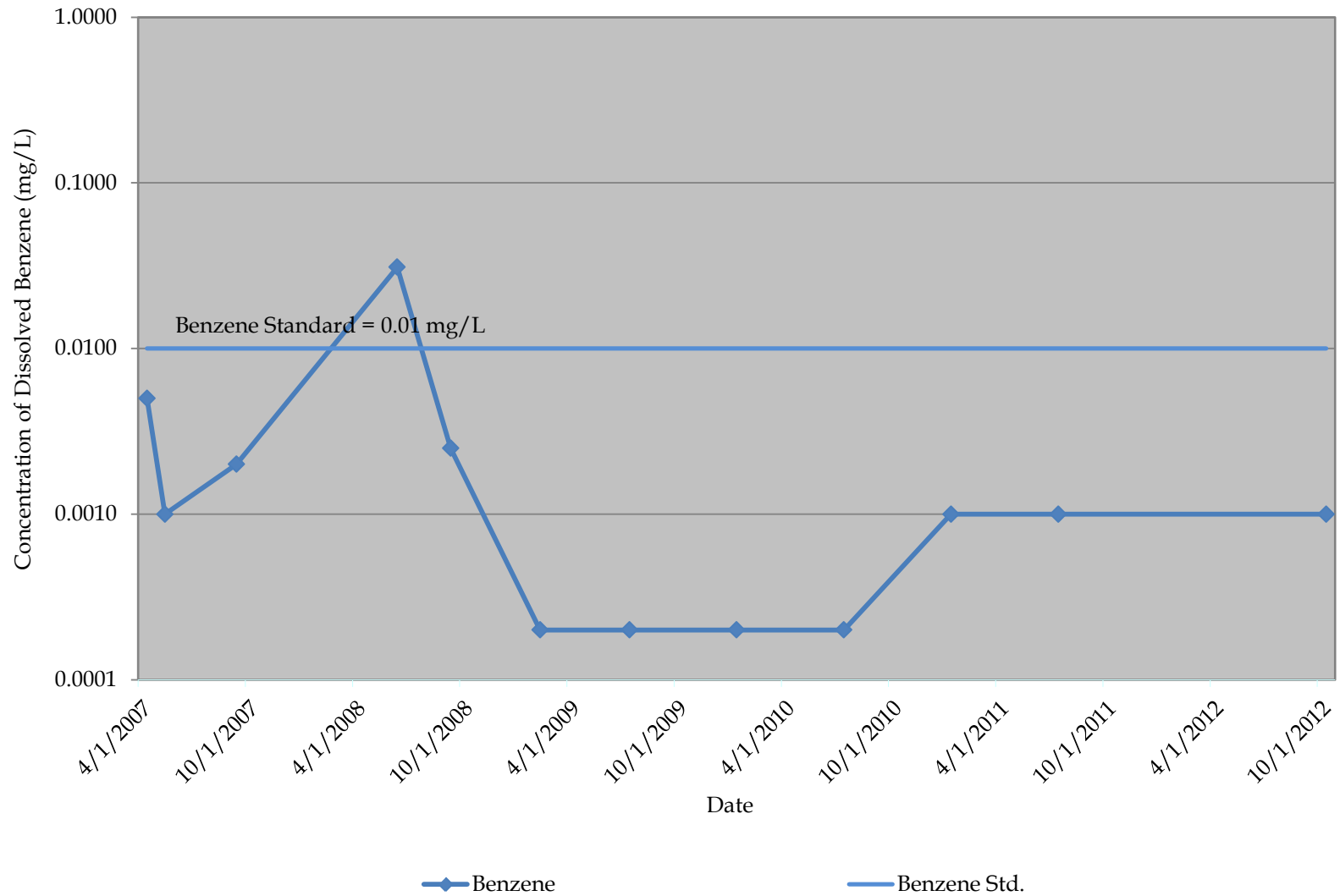
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-U



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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-V



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Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-W



Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Section 1-T17S-R36E, Lea County, NM
MW-D2

