AP - 115

2011 AGWMR

11 / 08 / 2013

ANNUAL GROUNDWATER MONITORING AND REMEDIATION REPORT
JANUARY THROUGH DECEMBER 2011

PHILLIPS 66 COMPANY
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Prepared For:

PHILLIPS 66 COMPANY
Remediation Management
420 South Keeler Avenue
Bartlesville, OK, 74004

NOVEMBER 2012
REF. NO. 075018
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

On behalf of Phillips 66 Company (Phillips 66), Conestoga-Rovers & Associates (CRA) is managing environmental and remedial project related activities at the Maljamar Gas Plant site (Site). The information in this report includes a brief review of previous Site activities, groundwater sampling data collected in October 2011, groundwater extraction data collected from January through December 2011 during operation of the groundwater extraction well (MW-6) at the Site, and results of the alternating operation of hydrocarbon skimmer pumps in wells MW-1, MW-7, MW-9, SK-1, and SK-2. The Site is located in Lea County, New Mexico (Figure 1). The report presents the following in detail.

- Background information and Site characteristics
- Site hydrogeology summary
- Groundwater monitoring activities and results
- Summary and recommendations

2.0 BACKGROUND INFORMATION AND SITE HISTORY

The Site is located in Lea County, New Mexico (Sec 21, T17S, R32E; **Figure 1**). During previous investigative and remedial activities at the Maljamar Gas Plant, 12 soil borings were drilled and sampled, 19 groundwater monitoring wells, one (1-) groundwater extraction wells and two (2) hydrocarbon recovery wells were installed, groundwater samples and water level data were collected, surface and borehole geophysical surveys were performed, an aquifer pump test was conducted, and the groundwater extraction wells were operated. The following is a summary of those activities:

- A subsurface investigation was performed in June 2000 to assess the potential for impacts to the subsurface underlying two bermed areas where condensate was historically stored and a 15 barrel condensate release occurred February 13, 2000. The assessment consisted of drilling, collecting and analyzing soil samples from twelve (12) soil borings. One monitoring well (MW-1) was installed to a depth of 92 feet below ground surface (fbgs). Data collected from this investigation was submitted to the New Mexico Oil Conservation Commission (NMOCD) in the August 8, 2000 Subsurface Investigation Report.
- Two (2) groundwater monitoring wells (MW-2 and 3) were installed at the site in September 2000.
- A groundwater investigation was initiated in May 2001 to define groundwater impacts at the Maljamar Gas Plant. Five (5) monitoring wells were installed (MW-4, 5, 7, 8 and 9). All wells installed during this investigation exhibited the presence of petroleum hydrocarbons. The results of this investigation were submitted to the NMOCD in the July 20, 2001 Interim Investigation Groundwater Report.
- Four (4) groundwater monitoring wells (MW-10, 11, 12 and 13) were installed in December 2001 and one (1) groundwater monitoring well (MW-14) was installed in March 2002 at the site.
- A groundwater investigation was performed in September 2002 to further delineate the groundwater flow system to the north, northeast, east, southeast, south, and southwest of the Maljamar Gas Plant and refine the conceptual hydrogeologic model of the area around the gas plant. Six groundwater monitoring wells (MW-15, 16, 17, 18, 19, and 20) were installed during this investigation. The water level elevations collected during this investigation indicated that a well-defined groundwater mound with a relatively uniform gradient field emanates radially away from a point source toward the north, east, and south. To the west, groundwater was not encountered during the March

2002 drilling program. The results of this investigation were submitted to the NMOCD in the November 11, 2002 Interim Groundwater Investigation Report.

- Condensate recovery wells SK-1 and SK-2 were installed at the site in March and December 2002, respectively.
- A magnetometer survey was performed in January 2003 to locate suspected abandoned exploration wells in the area over the groundwater mound that underlies the Maljamar Gas Plant. An early proposed hypothesis for the groundwater mounding conditions observed at the site was that the water flood of the MCA production unit underlying the area of concern had found a short-circuit upward through an abandoned well or annulus of an existing production well. However, no short-circuit pathways due to an abandoned well were discovered during this survey.
- A borehole geophysical investigation was initiated in March 2003 to ascertain the subsurface stratigraphy to facilitate free condensate removal and any subsequent groundwater remediation efforts. The study indicated mappable units, exhibiting lateral and vertical correlation properties, were underlying the gas plant.
- An aquifer pump test was performed at the site in September 2003 to gather hydrogeologic data from the uppermost saturated zone, exhibiting both condensate and chloride impacts, in order to develop a remediation plan. The data were also used to develop a water balance for the uppermost aquifer and an interpretive groundwater flow model to aid in estimating the effects of pumping a proposed well to be sited near wells SK-1 and MW-7.
- A groundwater extraction well (MW-6) was installed in the vicinity of wells SK-1, SK-2 and MW-7 on March 31, 2004. Well operation and control equipment was installed during April and May 2004 and groundwater extraction began on May 10, 2004. Water level measurements were collected weekly from May 17, 2004 until September 8, 2004, and continued monthly thereafter.
- The results of the aquifer pump test and the magnetometer and borehole geophysical surveys were submitted to the NMOCD in the Comprehensive Groundwater Report, dated March 1, 2004 (Maxim, 2004a).
- Results of the installation and initial operation of groundwater extraction well MW-6 were submitted to the NMOCD in the Groundwater Extraction Well Report, dated December 9, 2004 (Maxim, 2004b).
- A Durham Geo F.A.P. Plus pneumatic skimmer pump was installed on December 15, 2005, based on the results of a hydrocarbon recovery pilot test performed at the Site in May 2005 (Maxim, 2005). The skimmer pump is

alternated between wells SK-1, SK-2 and MW-7 to remove liquid phase hydrocarbons (LPH) present in these wells.

- A hydrocarbon recovery pilot test was performed at the Site on April 5, 2006. This data was used to evaluate the feasibility of installing a skimmer pump in MW-9 to remove the LPH layer present in this well. Results of the pilot test at MW-9 were reported in the Annual Report dated September 22, 2006 (Tetra Tech, 2006).
- ConocoPhillips Maljamar E&P site Groundwater extraction well EW-1 was installed adjacent to monitoring well MW-12 between May 14 and June 22, 2007. Extracted groundwater from EW-1 is pumped into a flowline connected to MW-6.
- Monitoring well MW-20 surface casing was damaged during the placement of an oil well drilling rig and was not available for sampling during the May 2007 sampling event. The well was rehabilitated on May 15, 2007 and completed at the surface with upright steel security casing and a cement pad.
- On December 21, 2007, wells MW-6, MW-7, MW-12, MW-20, SK-1, SK-2, and EW-1 were surveyed for location coordinates and elevation of top of casing.
- A Durham Geo F.A.P. Plus pneumatic skimmer pump was installed in MW-9 on March 24, 2008, based on the results of a hydrocarbon recovery pilot test performed at this well (Tetra Tech, 2006). The skimmer pump was started on March 25, 2008 to remove LPH present in the well.
- On August 10, 2010, the skimmer pump was removed from MW-9 after the LPH thickness in this well was reduced to 0.10 feet. The skimmer pump was then installed into MW-1 to remove LPH present in this well.
- In August 2011, CRA assumed management of the Site. Monthly groundwater level measurements were recorded and an annual groundwater monitoring and sampling event was conducted.

3.0 SITE HYDROGEOLOGY SUMMARY

Previous groundwater investigations and sampling performed at the Site by prior consultants (i.e., Maxim and Tetra Tech) have revealed that groundwater occurs under confining conditions in the vicinity of the Site at approximately 70 to 95 fbgs within two sand units ranging in thickness from several feet to no more than 10 to 12 feet thick. At a depth of approximately 72 fbgs in the vicinity of wells SK-1 and MW-7, an 11-foot-thick upper water-bearing sandstone layer overlies a 4-foot-thick shale layer, which in turn overlies a lower 13-foot-thick water-bearing sandstone layer. Generally, the overlying deposits consist of approximately 60 feet of light colored sands and sandy silts with occasional caliche interbeds, shale stringers and intermittent gravels representative of the Quaternary age alluvium/bolson fill which are underlain by approximately 30 to 50 feet of green to grayish green to dark green silty shales of the Triassic age Chinle Shale. The Tertiary age Ogallala Formation outcrops in a prominent escarpment (Mescalero Ridge) approximately four miles to the northeast of the Site, where the Ogallala unconformably overlies the Chinle shales. The overlying interbedded shale units presumably confine the groundwater contained in the underlying water-bearing sandstone units. A detailed conceptual model of the hydrogeologic conditions existing at the Site is presented in the *Comprehensive Groundwater Report* (Maxim, 2004).

Previous groundwater investigations and monitoring events have revealed that the groundwater potentiometric surface in the immediate vicinity of the Site is mounded, with the center of the mound occurring northwest of the Site. In exploration borings completed approximately 1,000 feet west, northwest, and southwest of the mound centroid, no sand interval was encountered indicating the mound is truncated toward the west, which is most likely due to a subsurface stratigraphic pinch-out or fault. To the north, south and east of the mound centroid, groundwater occurs under unconfined conditions, demonstrating that further away from the mound recharge zone, confining pressures diminish (Maxim, 2004).

4.0 GROUNDWATER SAMPLING METHODOLOGY

Groundwater monitoring activities were performed on existing Site monitoring and recovery wells from January through December 2011. Activities included performing a round of groundwater sampling and analyses in October 2011; operating groundwater extraction well MW-6; collecting monthly groundwater level measurements at the Site monitoring wells and periodic water quality data during the operation of extraction well MW-6; operation of a skimmer pump in MW-1; and alternating skimmer pump between SK-1, SK-2, and MW-7.

Groundwater Level and Water Quality Data Collection

Monthly groundwater level measurements were recorded from each monitoring well at the Site from January to December 2011. An oil/water interface probe was used to measure groundwater depths and check for the presence hydrocarbon in each of the Site monitor wells. Groundwater measurements proceeded from the cleanest wells to the wells containing hydrocarbons. These data, along with casing diameter and total depth information, were used to calculate the water volume in each monitor well. Before and after each use, the oil/water interface probe was cleaned with an Alconox®/de-ionized water solution and rinsed with de-ionized water.

Table 1 presents the well construction details for the monitoring and remediation wells installed at the Site. Groundwater and hydrocarbon depth measurements and elevations for January through December 2011 are summarized in Table 2. A summary of historical groundwater monitoring well gauging data is presented in Appendix B. Groundwater elevations show an overall leveling to slightly decreasing trend at the Site, as shown on the hydrographs in Appendix C.

Groundwater quality measurements of the MW-6 discharge water were collected during the sampling on October 26, 2011 using a portable field instrument. Measurement parameters included specific conductivity, salinity, pH, and temperature. Table 4 presents groundwater quality measurement data for extraction well MW-6.

Groundwater Monitoring and Sampling

On October 26, 2011, groundwater samples were collected from monitoring wells MW-2, MW-4, MW-5, MW-6, and MW-10 through MW-20 at the Site. Groundwater level measurements were recorded from each monitoring well at the Site to check for presence of hydrocarbon. During the October 2011 groundwater sampling event, the groundwater flow direction was to the northeast at an approximate gradient of 0.0081 ft/ft, to the east at an approximate gradient of 0.014 ft/ft, and to the southeast at an approximate gradient of 0.0081 ft/ft. A potentiometric groundwater surface elevation

map is presented in Figure 3. Table 2 presents the groundwater gauging data for January through December 2011. A hydrocarbon thickness concentration map for October 2011 is included as Figure 5.

Following groundwater measurement activities water was purged with a low flow bladder pump until field parameters, including pH, oxidation reduction potential (ORP), dissolved oxygen (DO), conductivity, and temperature stabilized. Field parameters were monitored using an YSI 556 multi-parameter sonde, and were recorded in a field book. Following purging, groundwater samples were collected through Teflon® tubing attached to the low flow bladder pump. Disposable nitrile gloves were worn by sampling personnel and were changed at each well location. The pump and associated tubing were decontaminated following each well sampling by circulating Alconox® soap and de-ionized water solution followed by a methanol/de-ionized water rinse, and finally a de-ionized water rinse.

Groundwater Extraction and Hydrocarbon Recovery Operations

Groundwater extraction well MW-6 was operated continuously from January through December 2011. Extracted groundwater was pumped from the well into an onsite 210-barell (bbl) fluid storage tank. The fluid storage tank is fitted with automated tank gauging and pumping controls and automatically injects the tank contents into MCA Station water flood system. A dedicated flowmeter, installed on the extraction well piping system, gauges the volume of groundwater removed by the extraction well. Since initial startup on May 10, 2004 to December 23, 2011, approximately 1,510,663 gallons of groundwater have been extracted from MW-6. Table 5 presents a summary of the groundwater extraction well recovery volumes at MW-6.

A Durham Geo F.A.P. Plus pneumatic skimmer pump is moved between wells SK-1, SK-2 and MW-7, depending on the thickness of hydrocarbons present in each of the three wells. Extracted hydrocarbons and minor amounts of groundwater are pumped from the wells into the onsite 210-barrel fluid storage tank via a manifold attached to the groundwater extraction well piping at MW-6. Volumes of fluids removed by the skimmer pump are registered on the extraction well MW-6 flowmeter and are part of the total extraction volume presented in Table 5.

A Durham Geo F.A.P. Plus pneumatic skimmer pump was installed in monitoring well MW-9 on March 24, 2008, based on the results of a hydrocarbon recovery pilot test performed at the well on April 5, 2006 (Tetra Tech, 2006). On August 10, 2010, the skimmer pump was removed from MW-9 and installed into MW-1 to remove LPH present in this well. Dedicated flowlines are installed from wells MW-9 and MW-1 to a manifold attached to the groundwater extraction well piping at MW-6. Extracted hydrocarbons and minor amounts of groundwater are pumped from the wells into the

onsite 210-barrel fluid storage tank connected to MW-6. Volumes of fluids removed by the skimmer pump from wells MW-9 and MW-1 are registered on the extraction well MW-6 flowmeter, and are part of the total extraction volume presented in Table 5.

4.1 GROUNDWATER ANALYTICAL RESULTS

During the October 2011 sampling event, groundwater samples collected from monitoring wells MW-2, MW-4, MW-5, MW-6, and MW-10 through MW-20 were submitted to Pace Analytical Services, Inc. of Lenexa, Kansas for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260; semi-volatile organic compounds-polynuclear aromatic hydrocarbons (PAHs) by Method 8270; calcium, magnesium, sodium, and potassium by Method 6010B; bromide, chloride, nitrate, and sulfate by Method 300.0A; total dissolved solids (TDS) by Method 160.1; and alkalinity (carbonate, bicarbonate, and total) by Method 310.1. The analytical results have been summarized and are presented in Table 3. Analytical results were compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards contained in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC).

Duplicate samples were collected from MW-4 and MW-11 and the analytical results were consistent with the results for the primary sample.

The following results were noted from the October 2011 annual groundwater sampling event:

- Benzene was detected above the NMWQCC standard (0.01 milligrams per liter (mg/L)) in MW-2 at 49.4 mg/L, MW-4 at 0.0345 mg/L (duplicate 0.0438 mg/L), and MW-6 at 0.808 mg/L.
- Ethylbenzene was detected above the NMWQCC standard (0.75 mg/L) in MW-2 at 1.110 mg/L and MW-4.
- Toluene was detected above the NMWQCC standard (0.75 mg/L) in MW-2 at 11.8 mg/L.
- Chloride was detected above the NMWQCC standard (250 mg/L) in WW (509 mg/L), MW-2 (528 mg/L), MW-4 (515 mg/L and duplicate 522 mg/L), MW-6 (791 mg/L), MW-10 (2,880 mg/L), MW-11 (715 mg/L and duplicate 659 mg/L), MW-12 (32,200 mg/L), MW-14 (408 mg/L), MW-17 (654 mg/L), MW-18 (11,100 mg/L), and MW-20 (5,950 mg/L).

- Nitrate as N was detected above the NMWQCC standard (10 mg/L) in MW-13 at 18.1 mg/L and MW-14 at 20 mg/L.
- Sulfate was detected above the NMWQCC standard (600 mg/L) in MW-12 at 1,020 mg/L, MW-14 at 848 mg/L, and MW-18 at 762 mg/L.
- TDS was detected above the NMWQCC standard (1,000 mg/L) in WW (1,280 mg/L), MW-2 (1,640 mg/L), MW-4 (1,300 mg/L and duplicate 1,380 mg/L), MW-6 (1,960 mg/L), MW-10 (6,480 mg/L), MW-11 (1,790 mg/L and duplicate 1,910 mg/L), MW-12 (55,900 mg/L), MW-13 (1,090 mg/L), MW-14 (2,350 mg/L), MW-17 (1,750 mg/L), MW-18 (22,700 mg/L), and MW-20 (13,100mg/L).

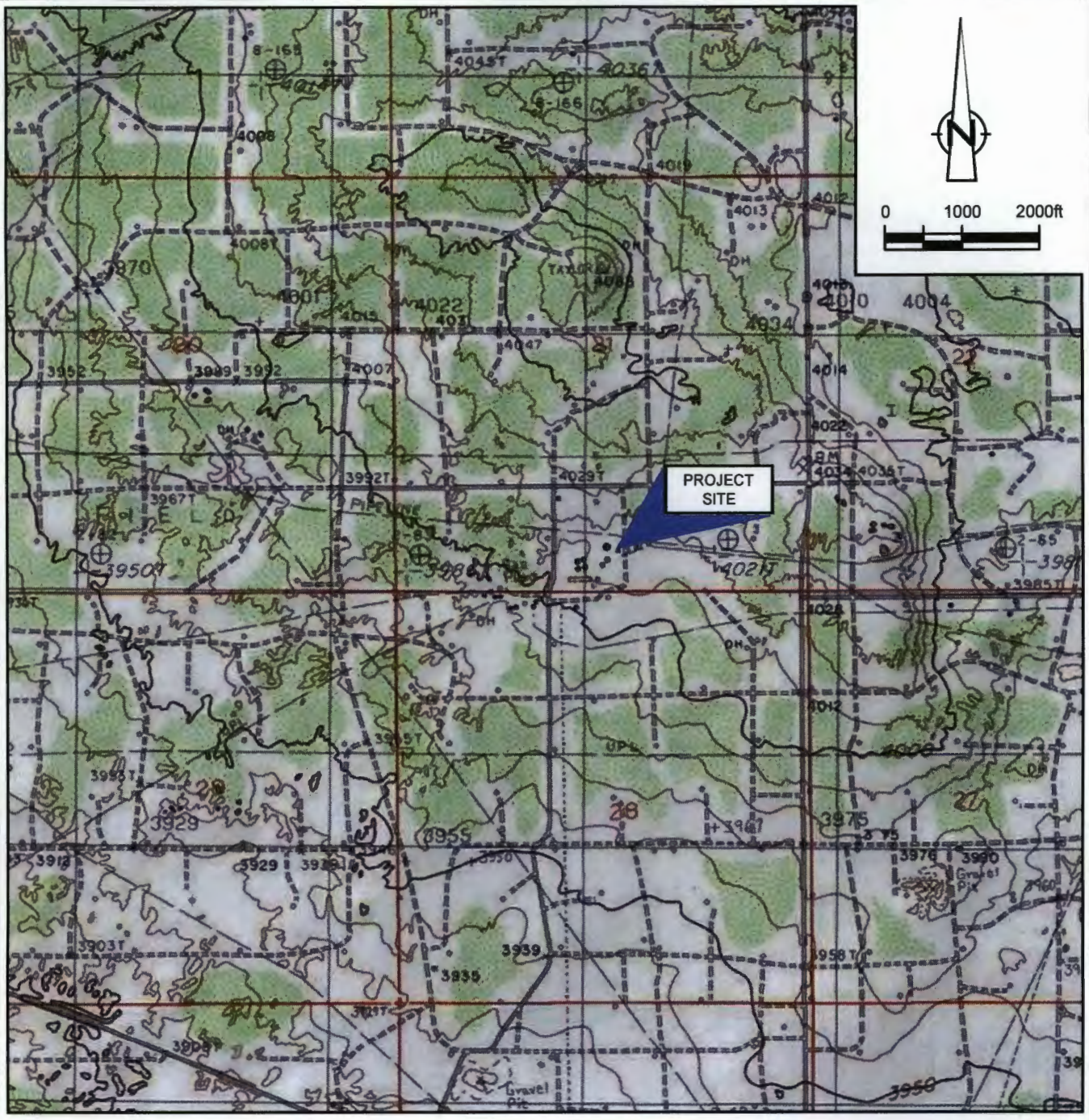
Groundwater analytical data is summarized in Table 3. Analytical results for benzene, toluene, ethylbenzene, and total xylenes (BTEX), chloride, and TDS for October 2011 are presented in Figure 4. Liquid phase Hydrocarbon (LPH) thickness contour map is presented on Figure 5. Concentration maps for benzene and chloride are presented as Figures 6 and 7, respectively. The laboratory groundwater analytical report is presented as Appendix A. Hydrographs and concentration vs. volume graphs are presented in Appendix C.

5.0 SUMMARY AND RECOMMENDATIONS

Results of the October 2011 groundwater sampling event show concentrations of BTEX, chloride, nitrate as N, sulfate, and TDS that exceeded NMWQCC standards at the Site. Based on the data, results and evaluations presented in this report, CRA recommends the following:

- Continue operation of groundwater extraction well MW-6, and periodically collect groundwater quality and extraction volume data from the wells.
- Collect monthly groundwater level and hydrocarbon thickness data from the Site monitoring wells.
- Annual groundwater monitoring and sampling of the Site monitoring wells. Groundwater samples will be collected and submitted to an analytical laboratory for analyses of volatile organic compounds, semi-volatile organic compounds, major ions, total dissolved solids, and chloride.
- Continue skimmer pump operations at SK-1, SK-2, MW-7, and MW-1 to remove LPH present in these wells. A skimmer pump will be moved between wells SK-1, SK-2, and MW-7, depending on the thickness of hydrocarbons present in each of the three wells.
- Evaluate remedial system operation and alternatives to enhance recovery.

FIGURES



SOURCE: USGS 7.5 MINUTE QUAD
"MALJAMAR, NEW MEXICO"

LAT/LONG: 32.8153° NORTH, 103.7719° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 1

SITE LOCATION MAP
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO
Phillips 66 Company

LEGEND

- Monitoring Well Location
- Extraction Well Location
- Water Well Location
- Sample Point Location
- Product Line
- S.S. Airline
- Product and Water Line

LAT/LONG: 32.8153° NORTH, 103.7719° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 2

SITE PLAN MAP
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO
Phillips 66 Company

075018-00(003)GN-DL001 AUG 28/2012

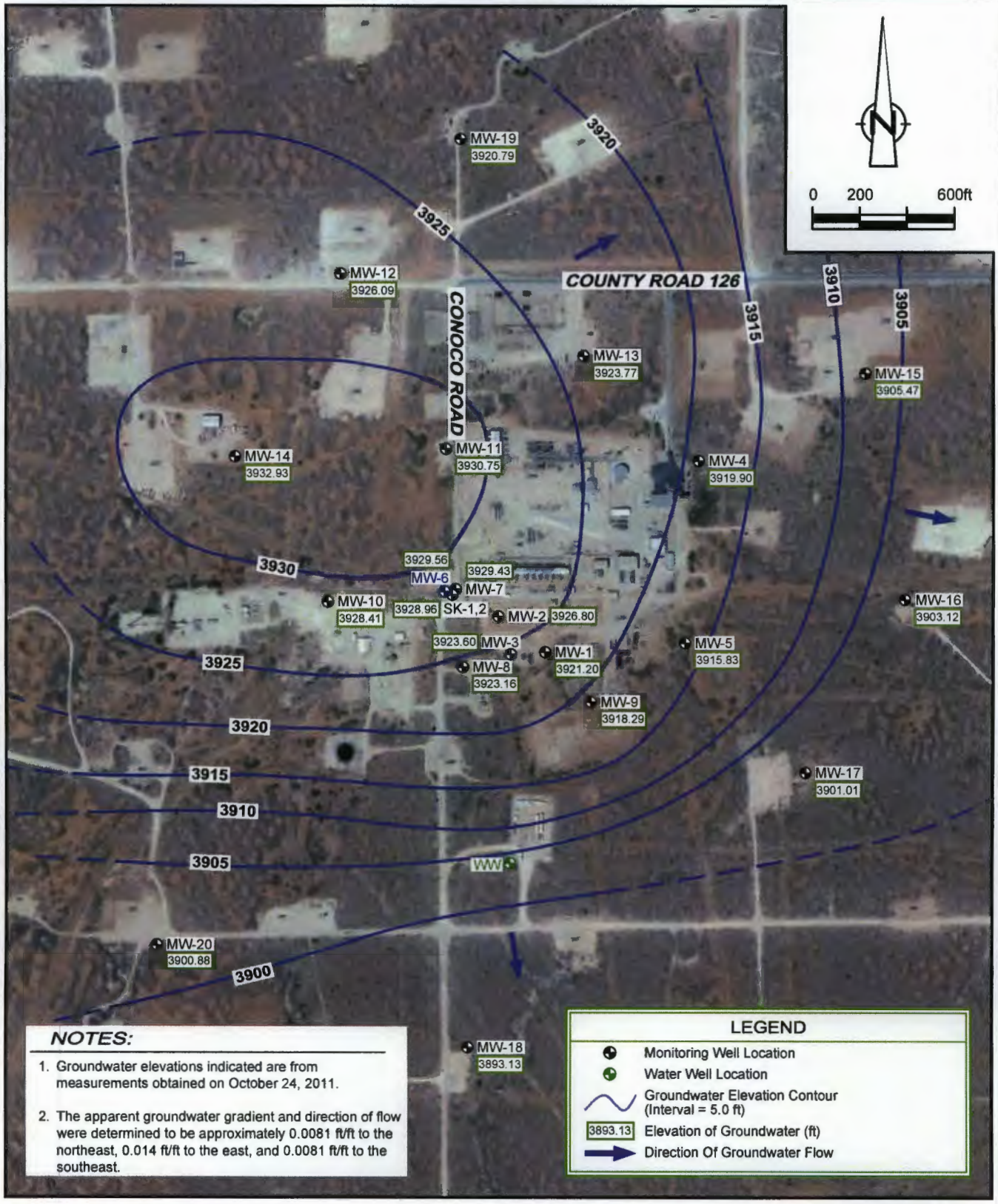


figure 3

GROUNDWATER GRADIENT MAP - OCTOBER 2011
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO
Phillips 66 Company

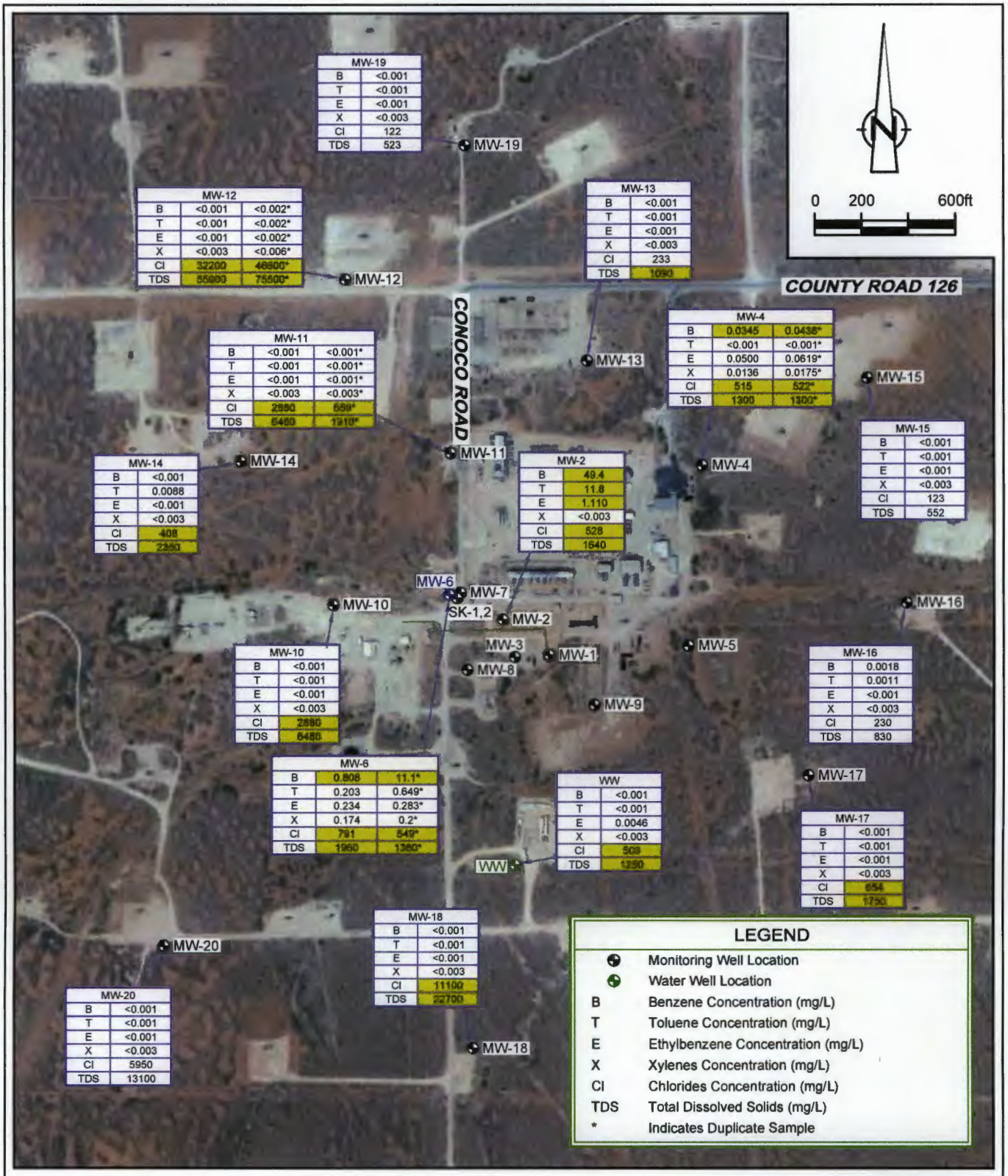


figure 4

GROUNDWATER ANALYTICAL RESULTS - BTEX, CHLORIDE & TDS - OCTOBER 2011
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO
Phillips 66 Company

figure 5

LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP - OCTOBER 2011 MALJAMAR GAS PLANT LEA COUNTY, NEW MEXICO

Phillips 66 Company

figure 6

BENZENE CONCENTRATION MAP - OCTOBER 2011
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO
Phillips 66 Company

figure 7

CHLORIDE CONCENTRATION MAP - OCTOBER 2011
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO
Phillips 66 Company

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Monitoring Well Number	Location Coordinates**		Top of Casing Elevation (famsl)	Depth				Screen Interval (fbgs)	Screen Slot Size*** (inches)	Casing Diameter (inches)	Well Installation Date
	Northing	Easting		Total (fbgs)	Casing (fbgs)	Water (fbgs)	Condensate (fbgs)				
MW-1	32.81208	-103.77181	4002.24	97	0-72	77.00		72-92	0.010	2	06/21/2000
MW-2	32.81250	-103.77244	4005.12	98	0-67	76.32		67-97	0.010	2	09/28/2000
MW-3	32.81206	-103.77228	4001.94	98	0-68	76.94		68-98	0.010	2	09/28/2000
MW-4	32.81425	-103.76967	4016.20	110	0-80	94.88		80-110	0.010	2	05/22/2001
MW-5	32.81217	-103.76989	4009.42	100	0-70	90.20		70-100	0.010	2	05/22/2001
MW-6*	32.81282	-103.77315	4005.23	105	0-105			70-100	0.010	6	03/31/2004
MW-7*	32.81281	-103.77308	4002.95	100	0-70	81.58	75.38	70-100	0.010	2	05/23/2001
MW-8	32.81192	-103.77294	4000.72	100	0-70	76.10		70-100	0.010	2	05/23/2001
MW-9	32.81150	-103.77119	4003.11	100	0-70	83.63		70-100	0.010	2	05/23/2001
MW-10	32.81269	-103.77478	4000.47	97	0-74	73.39		74-94	0.010	2	12/05/2001
MW-11	32.81442	-103.77314	4015.54	120	0-98	83.46		98-118	0.010	2	12/04/2001
MW-12*	32.81646	-103.77455	4022.53	120	0-99	94.39		99-119	0.010	2	12/04/2001
MW-13	32.81547	-103.77128	4031.96	127	0-105	106.68		105-125	0.010	2	12/03/2001
MW-14	32.81436	-103.77603	4006.98	120	0-80	75.00		80-100	0.010	4	03/20/2002
MW-15	32.81523	-103.76737	4026.75	130	0-99	113.50		99-129	0.010	2	09/17/2002
MW-16	32.81264	-103.76686	4017.74	130	0-98	113.50		98-128	0.010	2	09/17/2002
MW-17	32.81066	-103.76825	3998.58	100	0-79	97.36		79-99	0.010	2	09/17/2002
MW-18	32.80754	-103.77293	3980.46	110	0-87	85.91		87-107	0.010	2	09/17/2002
MW-19	32.81796	-103.77289	4037.34	120	0-98	117.23		98-118	0.010	2	09/17/2002
MW-20*	32.80878	-103.77718	3977.52	120	0-80	75.90		80-100	0.010	2	09/18/2002
SK-1*	32.81280	-103.77309	4005.60	105	0-85	74.07		85-105	0.010	4	03/21/2002
SK-2*	32.81278	-103.77309	4004.99	89.5	0-69	72.89		69-89	0.010	4	12/18/2002

Notes:
famsl = feet above mean sea level
fbgs = feet below ground surface
Blank Fields Indicate No Data
* Wells re-surveyed for location and elevation of top of casing on 12/21/07
** Section 21, T-17-S, R-32-E, New Mexico Principal Meridian
*** Schedule 40 PVC

TABLE 2
WATER LEVEL MEASUREMENTS
JANUARY THROUGH DECEMBER 2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
MW-1	01/18/11	4002.24	79.18	79.10	0.08	0.06	79.12	3923.12
	02/08/11	4002.24	79.97	78.83	1.14	0.91	79.06	3923.18
	03/08/11	4002.24	79.13	78.92	0.21	0.17	78.96	3923.28
	04/13/11	4002.24	79.21	78.98	0.23	0.18	79.03	3923.21
	05/23/11	4002.24	79.20	78.95	0.25	0.20	79.00	3923.24
	06/28/11	4002.24	79.54	79.17	0.37	0.30	79.24	3923.00
	07/19/11	4002.24	79.36	79.04	0.32	0.26	79.10	3923.14
	08/31/11	4002.24	81.38	81.07	0.31	0.25	81.13	3921.11
	09/27/11	4002.24	81.40	81.10	0.30	0.24	81.16	3921.08
	10/24/11	4002.24	81.24	80.99	0.25	0.20	81.04	3921.20
	11/29/11	4002.24	81.59	81.32	0.27	0.22	81.37	3920.87
	12/23/11	4002.24	81.68	81.36	0.32	0.26	81.42	3920.82
MW-2	01/18/11	4005.12	78.00		0.00	0.00	78.00	3927.12
	02/08/11	4005.12	77.82		0.00	0.00	77.82	3927.30
	03/08/11	4005.12	77.40		0.00	0.00	77.40	3927.72
	04/13/11	4005.12	77.48		0.00	0.00	77.48	3927.64
	05/23/11	4005.12	77.31		0.00	0.00	77.31	3927.81
	06/28/11	4005.12	78.25		0.00	0.00	78.25	3926.87
	07/19/11	4005.12	78.27		0.00	0.00	78.27	3926.85
	08/31/11	4005.12	78.26		0.00	0.00	78.26	3926.86
	09/27/11	4005.12	78.31		0.00	0.00	78.31	3926.81
	10/24/11	4005.12	78.32		0.00	0.00	78.32	3926.80
	11/29/11	4005.12	78.62		0.00	0.00	78.62	3926.50
	12/23/11	4005.12	78.44		0.00	0.00	78.44	3926.68
MW-3	01/18/11	4001.94	78.07		0.00	0.00	78.07	3923.87
	02/08/11	4001.94	NM					
	03/08/11	4001.94	77.81	77.80	0.01	0.01	77.80	3924.14
	04/13/11	4001.94	77.95	77.94	0.01	0.01	77.94	3924.00
	05/23/11	4001.94	77.83	77.82	0.01	0.01	77.82	3924.12
	06/28/11	4001.94	78.20		0.00	0.00	78.20	3923.74
	07/19/11	4001.94	78.29		0.00	0.00	78.29	3923.65
	08/31/11	4001.94	78.17		0.00		78.17	3923.77
	09/27/11	4001.94	78.20		0.00		78.20	3923.74
	10/24/11	4001.94	78.37	78.33	0.04	0.03	78.34	3923.60
	11/29/11	4001.94	78.43	78.42	0.01	0.01	78.42	3923.52
	12/23/11	4001.94	78.45		0.00		78.45	3923.49
MW-4	01/18/11	4016.20	96.35		0.00	0.00	96.35	3919.85
	02/08/11	4016.20	96.18		0.00	0.00	96.18	3920.02
	03/08/11	4016.20	96.17		0.00	0.00	96.17	3920.03
	04/13/11	4016.20	96.32		0.00	0.00	96.32	3919.88
	05/23/11	4016.20	96.26		0.00	0.00	96.26	3919.94
	06/28/11	4016.20	96.46		0.00	0.00	96.46	3919.74
	07/19/11	4016.20	96.35		0.00	0.00	96.35	3919.85
	08/31/11	4016.20	96.24		0.00	0.00	96.24	3919.96
	09/27/11	4016.20	96.33		0.00	0.00	96.33	3919.87
	10/24/11	4016.20	96.30		0.00	0.00	96.30	3919.90
	11/29/11	4016.20	96.40		0.00	0.00	96.40	3919.80
	12/23/11	4016.20	96.29		0.00	0.00	96.29	3919.91

TABLE 2
WATER LEVEL MEASUREMENTS
JANUARY THROUGH DECEMBER 2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
MW-5	01/18/11	4009.42	91.48		0.00	0.00	91.48	3917.94
	02/08/11	4009.42	91.23		0.00	0.00	91.23	3918.19
	03/08/11	4009.42	91.31		0.00	0.00	91.31	3918.11
	04/13/11	4009.42	91.49		0.00	0.00	91.49	3917.93
	05/23/11	4009.42	91.48		0.00	0.00	91.48	3917.94
	06/28/11	4009.42	91.86	91.68	0.18	0.14	91.72	3917.70
	07/19/11	4009.42	91.72	91.55	0.17	0.14	91.58	3917.84
	08/31/11	4009.42	93.62	93.46	0.16	0.13	93.49	3915.93
	09/27/11	4009.42	93.62	93.48	0.14	0.11	93.51	3915.91
	10/24/11	4009.42	93.69	93.56	0.13	0.10	93.59	3915.83
	11/29/11	4009.42	93.82	93.75	0.07	0.06	93.76	3915.66
	12/23/11	4009.42	93.81	93.74	0.07	0.06	93.75	3915.67
MW-7	01/18/11	4002.95	75.77		0.00	0.00	75.77	3927.18
	02/08/11	4002.95	NM					
	03/08/11	4002.95	72.93	72.11	0.82	0.66	72.27	3930.68
	04/13/11	4002.95	72.81	72.05	0.76	0.61	72.20	3930.75
	05/23/11	4002.95	72.64	71.92	0.72	0.58	72.06	3930.89
	06/28/11	4002.95	78.75	73.90	4.85	3.88	74.87	3928.08
	07/19/11	4002.95	79.42	73.79	5.63	4.50	74.92	3928.03
	08/31/11	4002.95	80.65	74.38	6.27	5.02	75.63	3927.32
	09/27/11	4002.95	80.77	73.81	6.96	5.57	75.20	3927.75
	10/24/11	4002.95	77.02	72.65	4.37	3.50	73.52	3929.43
	11/29/11	4002.95	80.73	73.95	6.78	5.42	75.31	3927.64
	12/23/11	4002.95	76.69		0.00		76.69	3926.26
MW-8	01/18/11	4000.72	77.15	77.06	0.09	0.07	77.08	3923.64
	02/08/11	4000.72	NM					
	03/08/11	4000.72	76.75	76.65	0.10	0.08	76.67	3924.05
	04/13/11	4000.72	76.82	76.75	0.07	0.06	76.76	3923.96
	05/23/11	4000.72	76.75	76.67	0.08	0.06	76.69	3924.03
	06/28/11	4000.72	77.22	77.15	0.07	0.06	77.16	3923.56
	07/19/11	4000.72	77.22	77.15	0.07	0.06	77.16	3923.56
	08/31/11	4000.72	77.27	77.22	0.05	0.04	77.23	3923.49
	09/27/11	4000.72	77.41	77.31	0.10	0.08	77.33	3923.39
	10/24/11	4000.72	77.60	77.55	0.05	0.04	77.56	3923.16
	11/29/11	4000.72	77.85	77.81	0.04	0.03	77.82	3922.90
	12/23/11	4000.72	77.75	77.72	0.03	0.02	77.73	3922.99
MW-9	01/18/11	4003.11	84.71	84.65	0.06	0.05	84.66	3918.45
	02/08/11	4003.11	84.63	84.38	0.25	0.20	84.43	3918.68
	03/08/11	4003.11	84.65	84.47	0.18	0.14	84.51	3918.60
	04/13/11	4003.11	84.65	84.62	0.03	0.02	84.63	3918.48
	05/23/11	4003.11	84.71	84.59	0.12	0.10	84.61	3918.50
	06/28/11	4003.11	85.05	84.85	0.20	0.16	84.89	3918.22
	07/19/11	4003.11	84.98	84.73	0.25	0.20	84.78	3918.33
	08/31/11	4003.11	84.86	84.65	0.21	0.17	84.69	3918.42
	09/27/11	4003.11	84.92	84.72	0.20	0.16	84.76	3918.35
	10/24/11	4003.11	85.01	84.77	0.24	0.19	84.82	3918.29
	11/29/11	4003.11	85.20	84.97	0.23	0.18	85.02	3918.09
	12/23/11	4003.11	85.17	84.91	0.26	0.21	84.96	3918.15

TABLE 2
WATER LEVEL MEASUREMENTS
JANUARY THROUGH DECEMBER 2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
MW-10	01/18/11	4000.47	71.77		0.00	0.00	71.77	3928.70
	02/08/11	4000.47	NM					
	03/08/11	4000.47	71.57		0.00	0.00	71.57	3928.90
	04/13/11	4000.47	71.72		0.00	0.00	71.72	3928.75
	05/23/11	4000.47	71.68		0.00	0.00	71.68	3928.79
	06/28/11	4000.47	71.98		0.00	0.00	71.98	3928.49
	07/19/11	4000.47	71.90		0.00	0.00	71.90	3928.57
	08/31/11	4000.47	71.84		0.00	0.00	71.84	3928.63
	09/27/11	4000.47	71.94		0.00	0.00	71.94	3928.53
	10/24/11	4000.47	72.06		0.00	0.00	72.06	3928.41
	11/29/11	4000.47	72.26		0.00	0.00	72.26	3928.21
	12/23/11	4000.47	72.18		0.00	0.00	72.18	3928.29
MW-11	01/18/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	02/08/11	4015.54	84.38		0.00	0.00	84.38	3931.16
	03/08/11	4015.54	84.40		0.00	0.00	84.40	3931.14
	04/13/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	05/23/11	4015.54	84.54		0.00	0.00	84.54	3931.00
	06/28/11	4015.54	84.85		0.00	0.00	84.85	3930.69
	07/19/11	4015.54	84.73		0.00	0.00	84.73	3930.81
	08/31/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	09/27/11	4015.54	84.66		0.00	0.00	84.66	3930.88
	10/24/11	4015.54	84.79		0.00	0.00	84.79	3930.75
	11/29/11	4015.54	84.99		0.00	0.00	84.99	3930.55
	12/23/11	4015.54	84.83		0.00	0.00	84.83	3930.71
MW-12	01/18/11	4022.53	97.81		0.00	0.00	97.81	3924.72
	02/08/11	4022.53	96.88		0.00	0.00	96.88	3925.65
	03/08/11	4022.53	94.42		0.00	0.00	94.42	3928.11
	04/13/11	4022.53	94.36		0.00	0.00	94.36	3928.17
	05/23/11	4022.53	94.20		0.00	0.00	94.20	3928.33
	06/28/11	4022.53	97.80		0.00	0.00	97.80	3924.73
	07/19/11	4022.53	97.74		0.00	0.00	97.74	3924.79
	08/31/11	4022.53	97.65		0.00	0.00	97.65	3924.88
	09/27/11	4022.53	97.67		0.00	0.00	97.67	3924.86
	10/24/11	4022.53	96.44		0.00	0.00	96.44	3926.09
	11/29/11	4022.53	98.06		0.00	0.00	98.06	3924.47
	12/23/11	4022.53	97.87		0.00	0.00	97.87	3924.66
MW-13	01/18/11	4031.96	108.03		0.00	0.00	108.03	3923.93
	02/08/11	4031.96	108.77		0.00	0.00	108.77	3923.19
	03/08/11	4031.96	107.82		0.00	0.00	107.82	3924.14
	04/13/11	4031.96	108.03		0.00	0.00	108.03	3923.93
	05/23/11	4031.96	108.01		0.00	0.00	108.01	3923.95
	06/28/11	4031.96	108.28		0.00	0.00	108.28	3923.68
	07/19/11	4031.96	108.19		0.00	0.00	108.19	3923.77
	08/31/11	4031.96	108.05		0.00	0.00	108.05	3923.91
	09/27/11	4031.96	108.09		0.00	0.00	108.09	3923.87
	10/24/11	4031.96	108.19		0.00	0.00	108.19	3923.77
	11/29/11	4031.96	108.31		0.00	0.00	108.31	3923.65
	12/23/11	4031.96	108.13		0.00	0.00	108.13	3923.83

TABLE 2
WATER LEVEL MEASUREMENTS
JANUARY THROUGH DECEMBER 2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
MW-14	01/18/11	4006.98	73.73		0.00	0.00	73.73	3933.25
	02/08/11	4006.98	73.53		0.00	0.00	73.53	3933.45
	03/08/11	4006.98	73.54		0.00	0.00	73.54	3933.44
	04/13/11	4006.98	73.78		0.00	0.00	73.78	3933.20
	05/23/11	4006.98	73.75		0.00	0.00	73.75	3933.23
	06/28/11	4006.98	74.04		0.00	0.00	74.04	3932.94
	07/19/11	4006.98	73.93		0.00	0.00	73.93	3933.05
	08/31/11	4006.98	73.82		0.00	0.00	73.82	3933.16
	09/27/11	4006.98	73.92		0.00	0.00	73.92	3933.06
	10/24/11	4006.98	74.05		0.00	0.00	74.05	3932.93
	11/29/11	4006.98	74.22		0.00	0.00	74.22	3932.76
	12/23/11	4006.98	74.09		0.00	0.00	74.09	3932.89
MW-15	01/18/11	4026.75	121.14		0.00	0.00	121.14	3905.61
	02/08/11	4026.75	120.98		0.00	0.00	120.98	3905.77
	03/08/11	4026.75	120.90		0.00	0.00	120.90	3905.85
	04/13/11	4026.75	121.15		0.00	0.00	121.15	3905.60
	05/23/11	4026.75	121.09		0.00	0.00	121.09	3905.66
	06/28/11	4026.75	121.37		0.00	0.00	121.37	3905.38
	07/19/11	4026.75	121.29		0.00	0.00	121.29	3905.46
	08/31/11	4026.75	121.14		0.00	0.00	121.14	3905.61
	09/27/11	4026.75	121.16		0.00	0.00	121.16	3905.59
	10/24/11	4026.75	121.28		0.00	0.00	121.28	3905.47
	11/29/11	4026.75	121.31		0.00	0.00	121.31	3905.44
	12/23/11	4026.75	121.23		0.00	0.00	121.23	3905.52
MW-16	01/18/11	4017.74	114.53		0.00	0.00	114.53	3903.21
	02/08/11	4017.74	114.29		0.00	0.00	114.29	3903.45
	03/08/11	4017.74	114.30		0.00	0.00	114.30	3903.44
	04/13/11	4017.74	114.50		0.00	0.00	114.50	3903.24
	05/23/11	4017.74	114.45		0.00	0.00	114.45	3903.29
	06/28/11	4017.74	114.75		0.00	0.00	114.75	3902.99
	07/19/11	4017.74	114.60		0.00	0.00	114.60	3903.14
	08/31/11	4017.74	114.49		0.00	0.00	114.49	3903.25
	09/27/11	4017.74	114.51		0.00	0.00	114.51	3903.23
	10/24/11	4017.74	114.62		0.00	0.00	114.62	3903.12
	11/29/11	4017.74	114.74		0.00	0.00	114.74	3903.00
	12/23/11	4017.74	114.56		0.00	0.00	114.56	3903.18
MW-17	01/18/11	3998.58	97.39		0.00	0.00	97.39	3901.19
	02/08/11	3998.58	97.38		0.00	0.00	97.38	3901.20
	03/08/11	3998.58	97.24		0.00	0.00	97.24	3901.34
	04/13/11	3998.58	97.48		0.00	0.00	97.48	3901.10
	05/23/11	3998.58	97.37		0.00	0.00	97.37	3901.21
	06/28/11	3998.58	97.61		0.00	0.00	97.61	3900.97
	07/19/11	3998.58	97.56		0.00	0.00	97.56	3901.02
	08/31/11	3998.58	97.38		0.00	0.00	97.38	3901.20
	09/27/11	3998.58	97.42		0.00	0.00	97.42	3901.16
	10/24/11	3998.58	97.57		0.00	0.00	97.57	3901.01
	11/29/11	3998.58	97.57		0.00	0.00	97.57	3901.01
	12/23/11	3998.58	97.43		0.00	0.00	97.43	3901.15

TABLE 2
WATER LEVEL MEASUREMENTS
JANUARY THROUGH DECEMBER 2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
MW-18	01/18/11	3980.46	87.17		0.00	0.00	87.17	3893.29
	02/08/11	3980.46	86.94		0.00	0.00	86.94	3893.52
	03/08/11	3980.46	86.94		0.00	0.00	86.94	3893.52
	04/13/11	3980.46	87.19		0.00	0.00	87.19	3893.27
	05/23/11	3980.46	87.11		0.00	0.00	87.11	3893.35
	06/28/11	3980.46	87.40		0.00	0.00	87.40	3893.06
	07/19/11	3980.46	87.29		0.00	0.00	87.29	3893.17
	08/31/11	3980.46	87.17		0.00	0.00	87.17	3893.29
	09/27/11	3980.46	87.25		0.00	0.00	87.25	3893.21
	10/24/11	3980.46	87.33		0.00	0.00	87.33	3893.13
	11/29/11	3980.46	87.44		0.00	0.00	87.44	3893.02
	12/23/11	3980.46	87.29		0.00	0.00	87.29	3893.17
MW-19	01/18/11	4037.34	116.38		0.00	0.00	116.38	3920.96
	02/08/11	4037.34	116.37		0.00	0.00	116.37	3920.97
	03/08/11	4037.34	116.21		0.00	0.00	116.21	3921.13
	04/13/11	4037.34	116.12		0.00	0.00	116.12	3921.22
	05/23/11	4037.34	116.35		0.00	0.00	116.35	3920.99
	06/28/11	4037.34	116.57		0.00	0.00	116.57	3920.77
	07/19/11	4037.34	116.49		0.00	0.00	116.49	3920.85
	08/31/11	4037.34	116.37		0.00	0.00	116.37	3920.97
	09/27/11	4037.34	116.38		0.00	0.00	116.38	3920.96
	10/24/11	4037.34	116.55		0.00	0.00	116.55	3920.79
	11/29/11	4037.34	116.63		0.00	0.00	116.63	3920.71
	12/23/11	4037.34	116.35		0.00	0.00	116.35	3920.99
MW-20	01/18/11	3977.52	76.45		0.00	0.00	76.45	3901.07
	02/08/11	3977.52	76.31		0.00	0.00	76.31	3901.21
	03/08/11	3977.52	76.34		0.00	0.00	76.34	3901.18
	04/13/11	3977.52	76.52		0.00	0.00	76.52	3901.00
	05/23/11	3977.52	76.52		0.00	0.00	76.52	3901.00
	06/28/11	3977.52	76.71		0.00	0.00	76.71	3900.81
	07/19/11	3977.52	76.57		0.00	0.00	76.57	3900.95
	08/31/11	3977.52	76.52		0.00	0.00	76.52	3901.00
	09/27/11	3977.52	76.53		0.00	0.00	76.53	3900.99
	10/24/11	3977.52	76.64		0.00	0.00	76.64	3900.88
	11/29/11	3977.52	76.73		0.00	0.00	76.73	3900.79
	12/23/11	3977.52	76.63		0.00	0.00	76.63	3900.89
SK-1	01/18/11	4005.60	78.90	78.17	0.73	0.58	78.32	3927.28
	02/08/11	4005.60	NM					
	03/08/11	4005.60	75.85	74.94	0.91	0.73	75.12	3930.48
	04/13/11	4005.60	75.86	74.85	1.01	0.81	75.05	3930.55
	05/23/11	4005.60	75.75	74.84	0.91	0.73	75.02	3930.58
	06/28/11	4005.60	80.10	79.00	1.10	0.88	79.22	3926.38
	07/19/11	4005.60	80.19	79.06	1.13	0.90	79.29	3926.31
	08/31/11	4005.60	80.50	79.25	1.25	1.00	79.50	3926.10
	09/27/11	4005.60	80.46	79.20	1.26	1.01	79.45	3926.15
	10/24/11	4005.60	77.73	76.37	1.36	1.09	76.64	3928.96
	11/29/11	4005.60	80.15	78.78	1.37	1.10	79.05	3926.55
	12/23/11	4005.60	81.36	79.96	1.40	1.12	80.24	3925.36

TABLE 2
WATER LEVEL MEASUREMENTS
JANUARY THROUGH DECEMBER 2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
SK-2	01/18/11	4004.99	76.03	75.21	0.82	0.66	75.37	3929.62
	02/08/11	4004.99	NM					
	03/08/11	4004.99	74.43	74.18	0.25	0.20	74.23	3930.76
	04/13/11	4004.99	74.25	74.03	0.22	0.18	74.07	3930.92
	05/23/11	4004.99	74.02	73.83	0.19	0.15	73.87	3931.12
	06/28/11	4004.99	75.53	75.32	0.21	0.17	75.36	3929.63
	07/19/11	4004.99	75.57	75.39	0.18	0.14	75.43	3929.56
	08/31/11	4004.99	75.75	75.50	0.25	0.20	75.55	3929.44
	09/27/11	4004.99	76.01	75.63	0.38	0.30	75.71	3929.28
	10/24/11	4004.99	75.91	75.31	0.60	0.48	75.43	3929.56
	11/29/11	4004.99	76.85	75.84	1.01	0.81	76.04	3928.95
	12/23/11	4004.99	77.28	75.98	1.30	1.04	76.24	3928.75

Notes:
L.P.H. = Liquid Phase Hydrocarbon
Blank Fields Indicate No Data
ft - feet
* Wells re-surveyed for location and elevation of top of casing on 12/21/07.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Parameters (mg/L)	*Water Well*		*MW-2*		*MW-4*		*MW-4 QA**	*MW-5*	*MW-6*		*MW-6 QA**	*MW-10*		*MW-11*	
	May 2011	*Oct 2011*	*May 2011*	*Oct 2011*	*May 2011*	*Oct 2011*	*Oct 2011*	*May 2011*	*May 2011*	*Oct 2011*	*May 2011*	*May 2011*	*Oct 2011*	*May 2011*	*Oct 2011*
Total Metals															
Calcium	141	142	291	289	183	201	195	250	174	185	192	1,310	856	298	325
Magnesium	59.5	58.6	57.2	52.7	51.7	54.6	55.2	40.9	68.3	73.2	74	327	181	83.7	86
Potassium	<5.0	4.12	<5.0	3.42	83.8	8.14	7.83	5.03	<5.0	3.95	<5.0	28.30	10.5	6.61	6
Sodium	140	149	63.6	72	111	82.7	82.8	160	100	188	92.5	3,210	778	103	101
Volatile Organic Compounds															
Benzene	<0.002	<0.001	51.3	49.4	0.0475	0.0345	0.0438	0.0013	7.65	0.808	11.1	<0.002	<0.001	0.0912	<0.001
Ethylbenzene	<0.002	<0.001	0.679	1.110	0.0601	0.0500	0.0619	0.0696	0.268	0.234	0.283	<0.002	<0.001	<0.002	<0.001
Toluene	<0.002	0.0046	12.9	11.8	<0.002	<0.001	<0.001	0.00044	0.483	0.203	0.649	<0.002	<0.001	<0.002	<0.001
Xylenes (total)	<0.006	<0.003	0.571	<0.003	0.0417	0.0136	0.0175	0.0679	0.182	0.174	0.2	<0.006	<0.003	<0.006	<0.003
Semivolatile Organic Compounds															
1-Methylnaphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2-Methylnaphthalene	<0.0002	—	0.0096	—	0.0097	—	—	0.0694	0.0053	—	0.0061	<0.0002	—	<0.0002	—
Acenaphthene	<0.0002	<0.0001	<0.0002	0.00011	0.00016	0.00021	0.00020	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Acenaphthylene	<0.0002	<0.0001	<0.0002	0.00013	<0.0002	0.00013	0.00012	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Anthracene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(a)anthracene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	0.000059	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(a)pyrene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(b)fluoranthene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(g,h,i)perylene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(k)fluoranthene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Chrysene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	0.000085	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Dibenz(a,h)anthracene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Dibenzofuran	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Fluoranthene	<0.0002	<0.0001	<0.0002	<0.0001	0.00008	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	0.000051	<0.0001
Fluorine	<0.0002	<0.0001	0.00032	0.00062	0.00069	0.00066	0.00063	0.0016	0.00025	0.00019	0.00028	<0.0002	<0.0001	<0.0002	<0.0001
Indeno(1,2,3-cd)pyrene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Naphthalene	<0.0002	<0.0001	0.0083	0.0108	0.0047	0.0044	0.0044	0.0164	0.0041	0.0041	0.0044	<0.0002	<0.0001	<0.0002	<0.0001
Phenanthrene	<0.0002	<0.0005	0.00023	<0.0005	0.00023	<0.0005	<0.0005	0.0031	0.0001	<0.0005	<0.0002	<0.0002	<0.0005	0.000083	<0.0005
Pyrene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	0.00026	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001
Inorganic Analysis															
Carbonate Alkalinity	<5.0	<20	<5.0	<20	<5.0	<20	<20	<5.0	<5.0	<20	<5.0	<5.0	<20	<5.0	<20
Bicarbonate Alkalinity	112	160	322	560	164	184	192	443	203	212	211	168	300	149	220
Total Alkalinity	112	160	322	560	164	184	192	444	204	212	212	168	300	149	220
Bromide	2.6	2.7	3.9	3.6	2.2	2.4	2.4	1.2	1.9	2.7	1.9	8.8	5.1	2.6	2.7
Chloride	486	509	563	528	624	515	522	499	531	791	549	10,500	2,880	811	715
Nitrate as N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.60	3.00	3.6	4.9
Sulfate	127	94.9	5.3	5.4	3.2	<20	<20	4.1	33.7	36.9	43.7	634	369	99.9	90.9
Total Dissolved Solids	1,300	1,280	1,740	1,640	1,410	1,300	1,380	1,520	1,460	1,960	1,380	19,600	6,480	2,510	1,790

Notes:
mg/L = milligrams per liter
< = Not detected at or above laboratory reporting limits.
Detected results are bolded.
NM WQ Std = New Mexico Water Quality Standard
* QA = Field duplicate sample analyses for evaluation of laboratory quality assurance/quality control (QA/QC) procedures.
'—' indicates no data.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Parameters (mg/L)	*MW-11 QA**	*MW-12*		*MW-12 QA**	*MW-13*		*MW-14*		*MW-15*		*MW-16*		*MW-17*	
	Oct 2011	*May 2011*	*Oct 2011*	*May 2011*	*May 2011*	*Oct 2011*	*May 2011*	*Oct 2011*	*May 2011*	*Oct 2011*	*May 2011*	*Oct 2011*	*May 2011*	*Oct 2011*
Total Metals														
Calcium	**352**	**3,260**	**3370**	**3,230**	**204**	**541**	**525**	**532**	**101**	**221**	**158**	**232**	**254**	**326**
Magnesium	**93**	**794**	**743**	**808**	**41.4**	**99.6**	**133**	**159**	**38.2**	**51**	**45.3**	**45.6**	**49.7**	**60.3**
Potassium	**6**	**79.1**	**54**	**83.7**	<5.0	**16.9**	<5.0	**14.4**	<5.0	**7.4**	<5.0	**3.08**	<5.0	**7.4**
Sodium	**108**	**15,100**	**14800**	**15,700**	**73.5**	**81.3**	**57.7**	**58.1**	**57.4**	**58.2**	**61.6**	**58.1**	**237**	**239**
Volatile Organic Compounds														
Benzene	<0.001	<0.002	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	**0.0018**	<0.002	<0.001
Ethylbenzene	<0.001	<0.002	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001
Toluene	<0.001	<0.002	<0.001	<0.002	<0.002	<0.001	<0.002	0.0088	<0.002	<0.001	<0.002	**0.0011**	<0.002	<0.001
Xylenes (total)	<0.003	<0.006	<0.003	<0.006	<0.006	<0.003	<0.006	<0.003	<0.006	<0.003	<0.006	<0.003	<0.006	<0.003
Semivolatile Organic Compounds														
1-Methylnaphthalene	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene	---	<0.0002	---	<0.0002	<0.0002	---	<0.0002	---	<0.0002	---	<0.0002	---	<0.0002	---
Acenaphthene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Acenaphthylene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Anthracene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(a)anthracene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(a)pyrene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(b)fluoranthene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(g,h,i)perylene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Benzo(k)fluoranthene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Chrysene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Dibenz(a,h)anthracene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Dibenzofuran	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Fluoranthene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Fluorine	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Indeno(1,2,3-cd)pyrene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Naphthalene	<0.0001	<0.0002	<0.0001	**0.000079**	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Phenanthrene	<0.0005	<0.0002	<0.0005	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0002	<0.0005	<0.0002	<0.0005	<0.0002	<0.0005
Pyrene	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Inorganic Analysis														
Carbonate Alkalinity	<20	<5.0	<20	<5.0	<5.0	<20	<5.0	<20	<5.0	<20	<5.0	<20	<5.0	<20
Bicarbonate Alkalinity	**208**	**114**	**138**	**105**	**217**	**765**	**276**	**390**	**213**	**452**	**285**	**444**	**182**	**244**
Total Alkalinity	**208**	**114**	**138**	**105**	**218**	**765**	**276**	**390**	**216**	**452**	**286**	**444**	**182**	**244**
Bromide	**2.5**	**9.7**	<1	**10.2**	**1.4**	**1.3**	**4.2**	**3.4**	**0.98**	**1**	**1.2**	**1.3**	**1.8**	**1.8**
Chloride	**659**	**45,500**	**32,200**	**46,600**	**235**	**233**	**527**	**408**	**144**	**123**	**244**	**230**	**683**	**654**
Nitrate as N	**6.1**	**2.2**	**3.0**	**2**	**15**	**18.1**	**16**	**20**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulfate	**84.6**	**1,170**	**1,020**	**1350**	**267**	**253**	**1,110**	**848**	**58.3**	**56.4**	**92.2**	**76.4**	**281**	**274**
Total Dissolved Solids	**1,910**	**66,400**	**55,900**	**75,500**	**1,120**	**1,090**	**2,980**	**2,350**	**638**	**552**	**894**	**830**	**1,960**	**1,750**

Notes:
mg/L = milligrams per liter
< = Not detected at or above laboratory reporting limits.
Detected results are bolded.
NM WQ Std = New Mexico Water Quality Standard
* QA = Field duplicate sample analyses for evaluation of laboratory quality assurance/quality control (QA/QC) procedures.
'---' indicates no data.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
2011
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Parameters (mg/L)	*MW-18*		*MW-19*		*MW-20*		*NM WQ Std*
	May 2011	*Oct 2011*	*May 2011*	*Oct 2011*	*May 2011*	*Oct 2011*	
Total Metals							
Calcium	**2,090**	**2,850**	**126**	**207**	**2,050**	**3,080**	
Magnesium	**680**	**772**	**34.5**	**41.7**	**632**	**640**	
Potassium	**33.2**	**51.2**	<5.0	**5.46**	**53.8**	**41.9**	
Sodium	**3,290**	**3,450**	**56.0**	**56.2**	**1,000**	**1,050**	
Volatile Organic Compounds							
Benzene	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	0.01
Ethylbenzene	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	0.75
Toluene	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	0.75
Xylenes (total)	<0.006	<0.003	<0.006	<0.003	<0.006	<0.003	0.62
Semivolatile Organic Compounds							
1-Methylnaphthalene	—	—	—	—	—	—	0.03
2-Methylnaphthalene	<0.0002	—	<0.0002	—	<0.0002	—	0.03
Acenaphthene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Acenaphthylene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Anthracene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Benzo(a)anthracene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Benzo(a)pyrene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	0.0007
Benzo(b)fluoranthene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Benzo(g,h,i)perylene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Benzo(k)fluoranthene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Chrysene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Dibenz(a,h)anthracene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Dibenzofuran	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Fluoranthene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Fluorine	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Indeno(1,2,3-cd)pyrene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Naphthalene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	0.03
Phenanthrene	<0.0002	<0.0005	**0.000083**	<0.0005	<0.0002	<0.0005	
Pyrene	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	
Inorganic Analysis							
Carbonate Alkalinity	<5.0	<20	<5.0	<20	<5.0	<20	
Bicarbonate Alkalinity	**130**	**224**	**255**	**436**	**101**	**4790**	
Total Alkalinity	**130**	**224**	**256**	**436**	**101**	**4790**	
Bromide	**9.5**	<1	**1.1**	<1	**7.6**	<1	
Chloride	**15,900**	**11,100**	**140**	**122**	**6,720**	**5,950**	250
Nitrate as N	**3.4**	**3.7**	**1.4**	**2.2**	**3.40**	**3.90**	10
Sulfate	**858**	**762**	**27.4**	**32.9**	**571**	**551**	600
Total Dissolved Solids	**25,500**	**22,700**	**589**	**523**	**15,200**	**13,100**	1,000

Notes:
mg/L = milligrams per liter
< = Not detected at or above laboratory reporting limits.
Detected results are bolded.
NM WQ Std = New Mexico Water Quality Standard
* QA = Field duplicate sample analyses for evaluation of laboratory quality assurance/quality control (QA/QC) procedures.
—' indicates no data.

TABLE 4
MW-6 GROUNDWATER QUALITY MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Date	*Time*	*Specific Conductivity (mS/cm)*	*Salinity (ppt)*	*pH (units)*	*Temperature (°C)*	*Comments*
05/17/04		1.62	0.81	7.93	24.0	
07/12/04	10:27	1.70	0.85	8.23	21.5	
07/12/04	10:29	1.69	0.84	8.26	21.4	
07/12/04	10:30	1.69	0.84	8.27	21.3	
07/12/04	10:31	1.69	0.84	8.26	21.1	
07/12/04	10:33	1.69	0.84	8.25	21.2	
07/12/04	10:35	1.71	0.85	8.26	20.9	
07/12/04	10:37	1.69	0.84	8.23	21.0	pump off @10:37
07/26/04	11:44	1.71	0.86	8.13	21.7	pump off @11:49
08/10/04	10:13	1.71	0.85	8.26	23.3	
08/10/04	10:15	1.71	0.85	8.32	22.4	
08/10/04	10:17	1.71	0.86	8.39	22.1	
08/10/04	10:18	1.71	0.86	8.42	21.6	
08/10/04	10:22	1.72	0.86	8.47	21.7	
08/10/04	10:27	1.74	0.87	8.38	21.5	
08/10/04	10:29	1.73	0.86	8.39	21.7	pump off @ 10:29
08/16/04	8:59	1.75	0.87	8.29	21.0	
08/16/04	9:00	1.73	0.87	8.35	20.6	
08/16/04	9:03	1.72	0.86	8.43	20.4	
08/16/04	11:11	1.69	0.84	8.15	22.0	
08/16/04	11:15	1.71	0.86	8.35	21.4	
08/16/04	11:20	1.71	0.85	8.46	21.1	
08/16/04	11:25	1.73	0.86	8.41	21.3	pump off @ 11:28
08/23/04	8:15	1.72	0.86	8.31	21.3	
08/23/04	8:20	1.73	0.86	8.41	21.1	
08/23/04	8:25	1.75	0.87	8.42	21.2	pump off @ 08:27
08/30/04	9:22	1.75	0.88	8.33	22.2	
08/30/04	9:26	1.73	0.87	8.43	21.5	pump off @ 09:27
09/08/04	9:00	1.72	0.86	8.21	21.4	
09/08/04	9:05	1.72	0.86	8.47	21.6	
09/08/04	9:10	1.74	0.87	8.46	21.1	pump off @ 09:13
10/08/04	9:36	1.75	0.88	8.54	21.3	
10/08/04	9:40	1.75	0.88	8.69	21.0	
10/08/04	9:45	1.79	0.90	8.68	21.1	pump off @ 9:46
10/08/04	11:58	1.75	0.88	8.50	20.9	
10/08/04	12:05	1.77	0.89	8.67	20.5	
10/08/04	12:10	1.78	0.89	8.69	20.4	pump off @ 12:10
01/17/05	10:55	1.46	0.73	7.44	16.6	
02/09/05	11:20	1.45	0.72	7.14	18.5	
04/05/05	10:00	2.08	1.04	7.23	19.4	
08/08/05	10:35	1.73	0.86	7.12	22.8	
02/16/06	12:20	1.51	0.75	6.74	21.0	
03/07/06	11:35	1.49	0.74	7.37	21.4	
06/05/06	12:25	1.65	0.82	7.06		
09/20/06	12:42	1.80	0.90	7.04	22.8	
12/04/06	10:10	2.00	0.99	7.26	15.7	
01/04/07	11:05	2.06	1.02	7.30	18.5	
04/17/07	13:37	2.04		7.19	23.3	
10/16/07	11:30	2.24	1.11	6.95	21.1	
02/27/08	10:42	15.49	7.74	6.89	20.5	
10/15/08	14:05	2.34	1.16	7.10	18.0	
05/06/09	15:13	1.37	0.68	6.41	31.7	sampling event
05/25/10	14:05	2.15	1.07	7.19	26.9	sampling event
10/25/11	13:10	2.00		7.37	24.4	sampling event

Notes:
mS/cm = milliSiemens per centimeter
ppt = parts per thousand
°C = degrees Celsius

TABLE 5
MW-6 EXTRACTION WELL RECOVERY VOLUMES
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Date	*Time*	*Flowmeter Reading*	*Gallons Per Reading*	*Cumulative Gallons*	*Gallons Per Pumping Cycle*	*Gallons Per Minute*	*Comments*
04/05/04	14:45	1,506.45					Start pumping MW-6
05/10/04	10:35	1,770.90	264.45				
05/10/04	12:28	1,940.00	169.10	433.55			
05/17/04	14:50	14,792.65	12,852.65	13,286.20		1.28	
05/17/04	17:09	15,045.55	252.90	13,539.10			
05/24/04	13:51	27,260.85	12,215.30	25,754.40		1.21	
06/01/04	8:07	34,896.40	7,635.55	33,389.95		0.66	
06/01/04	9:41	34,910.00	13.60	33,403.55			
06/01/04	10:51	35,008.60	98.60	33,502.15	112.20		
06/01/04	12:12	35,040.00	31.40	33,533.55			
06/01/04	12:31	35,123.25	83.25	33,616.80	83.25		
06/01/04	13:51	35,130.30	7.05	33,623.85			
06/07/04	8:04	42,007.30	6,877.00	40,500.85		0.80	
06/07/04	9:19	42,080.90	73.60	40,574.45	73.60		
06/07/04	11:06	42,164.65	83.75	40,658.20	83.75		
06/15/04	8:06	51,167.30	9,002.65	49,660.85		0.78	
06/15/04	9:10	51,230.00	62.70	49,723.55	95.65		
06/15/04	9:16	51,260.00	30.00	49,753.55			
06/15/04	9:52	51,262.95	2.95	49,756.50			
06/15/04	11:19	51,358.25	95.30	49,851.80	95.30		
06/21/04	8:21	57,670.00	6,311.75	56,163.55		0.73	
06/21/04	8:27	57,710.00	40.00	56,203.55			
06/21/04	8:56	57,735.65	25.65	56,229.20			
06/21/04	10:47	57,830.35	94.70	56,323.90	94.70		
06/28/04	8:18	65,189.50	7,359.15	63,683.05		0.73	
06/28/04	10:17	65,282.70	93.20	63,776.25	93.20		
06/28/04	12:28	65,376.90	94.20	63,870.45	94.20		
07/06/04	8:08	73,765.10	8,388.20	72,258.65		0.73	
07/06/04	8:46	73,868.50	103.40	72,362.05	103.40		
07/06/04	13:41	74,044.45	175.95	72,538.00	175.95		
07/12/04	9:07	80,116.10	6,071.65	78,609.65		0.70	
07/12/04	10:37	80,207.95	91.85	78,701.50	91.85		
07/12/04	13:07	80,300.40	92.45	78,793.95			
07/19/04	8:08	87,253.85	6,953.45	85,747.40		0.69	
07/19/04	8:45	87,358.20	104.35	85,851.75	104.35		
07/19/04	10:59	87,442.75	84.55	85,936.30	84.55		
07/26/04	9:01	94,366.45	6,923.70	92,860.00		0.69	
07/26/04	9:31	94,460.95	94.50	92,954.50	94.50		
07/26/04	11:49	94,554.90	93.95	93,048.45	93.95		
08/02/04	8:05	101,564.60	7,009.70	100,058.15		0.70	
08/02/04	8:45	101,658.50	93.90	100,152.05	93.90		
08/02/04	10:49	101,750.60	92.10	100,244.15	92.10		
08/10/04	8:26	109,577.25	7,826.65	108,070.80		0.68	
08/10/04	10:29	109,668.75	91.50	108,162.30	91.50		
08/10/04	12:44	109,769.50	100.75	108,263.05	100.75		
08/16/04	8:12	115,282.00	5,512.50	113,775.55		0.64	
08/16/04	9:03	115,374.45	92.45	113,868.00	92.45		
08/16/04	11:28	115,466.40	91.95	113,959.95	91.95		
08/23/04	8:27	122,334.20	6,867.80	120,827.75		0.68	
08/23/04	11:13	122,424.30	90.10	120,917.85	90.10		
08/23/04	12:43	122,513.25	88.95	121,006.80	88.95		
08/30/04	8:09	129,069.60	6,556.35	127,563.15		0.65	
08/30/04	9:27	129,150.00	80.40	127,643.55			
08/30/04	12:03	129,239.55	89.55	127,733.10	89.55		
09/08/04	7:56	137,417.20	8,177.65	135,910.75		0.63	

TABLE 5
MW-6 EXTRACTION WELL RECOVERY VOLUMES
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Date	*Time*	*Flowmeter Reading*	*Gallons Per Reading*	*Cumulative Gallons*	*Gallons Per Pumping Cycle*	*Gallons Per Minute*	*Comments*
09/08/04	9:13	137,503.90	86.70	135,997.45	86.70		
09/08/04	12:01	137,587.95	84.05	136,081.50	84.05		
10/08/04	12:10	164,776.80	27,188.85	163,270.35		0.63	
12/30/04	8:55	226,579.30	61,802.50	225,072.85		0.52	
01/17/05	13:30	251.50	251.50	225,324.35			Replace flowmeter
02/09/05	12:20	18,330.70	18,079.20	243,403.55		0.55	
03/09/05	13:25	37,412.00	19,081.30	262,484.85		0.47	
04/05/05	12:38	55,160.60	17,748.60	280,233.45		0.46	
05/19/05	10:15	82,715.00	27,554.40	307,787.85		0.43	
06/08/05	11:15	95,551.00	12,836.00	320,623.85		0.45	
07/05/05	14:30	110,883.80	15,332.80	335,956.65		0.39	
08/08/05	12:45	129,746.00	18,862.20	354,818.85		0.39	
09/14/05	10:15	141,031.00	11,285.00	366,103.85		0.21	
11/09/05	11:00	141,182.10	151.10	366,254.95			Pump not working
11/15/05	10:00	141,182.10	0.00	366,254.95			Pull pump for repairs
11/21/05	10:30	141,322.20	140.10	366,395.05			Reinstall pump
11/29/05	12:30	149,304.10	7,981.90	374,376.95		0.69	
12/14/05	12:00	155,239.90	5,935.80	380,312.75		0.27	Float switch & freezing problems
01/26/06	12:15	160,817.90	5,578.00	385,890.75		0.09	Float switch & freezing problems
02/02/06	14:30	163,014.50	2,196.60	388,087.35		0.22	Float switch & freezing problems
02/15/06	11:00	173,406.30	10,391.80	398,479.15		0.56	Install heat trace & insulation
02/16/06	12:25	174,273.60	867.30	399,346.45		0.60	
03/07/06	11:05	187,632.40	13,358.80	412,705.25		0.49	
03/23/06	11:15	215,507.00	27,874.60	440,579.85		1.21	
04/05/06	11:43	220,641.00	5,134.00	445,713.85		0.27	
04/18/06	10:00	228,578.50	7,937.50	453,651.35		0.42	
05/08/06	15:31	241,171.50	12,593.00	466,244.35		0.44	
05/11/06	13:40	242,939.70	1,768.20	468,012.55		0.41	
05/12/06	8:22	243,424.10	484.40	468,496.95		0.34	
05/12/06	8:40	243,451.40	27.30	468,524.25		1.52	
06/05/06	12:25	258,570.00	15,118.60	483,642.85		0.44	
07/11/06	12:10	280,703.30	22,133.30	505,776.15		0.43	
08/16/06	8:20	281,423.30	720.00	506,496.15		0.01	Pump off from 7/24/06 f/ tank repairs
08/30/06	10:50	281,484.50	61.20	506,557.35		0.00	Restart pump on 8/30/06
09/20/06	12:42	297,406.90	15,922.40	522,479.75		0.53	
10/11/06	10:40	312,557.10	15,150.20	537,629.95		0.50	
11/08/06	9:00	329,920.90	17,363.80	554,993.75		0.43	Pump off from 11/07/06 tank full
12/04/06	10:10	349,386.10	19,465.20	574,458.95		0.52	
01/04/07	11:05	365,410.80	16,024.70	590,483.65		0.36	
02/27/07	10:50	392,701.40	27,290.60	617,774.25		0.35	
03/20/07	9:15	418,632.10	25,930.70	643,704.95		0.86	
04/17/07	13:56	456,282.30	37,650.20	681,355.15		0.93	
05/07/07	10:46	468,334.40	12,052.10	693,407.25		0.42	
05/08/07	15:17	469,062.40	728.00	694,135.25		0.51	
05/15/07	11:12	495,925.30	26,862.90	720,998.15		2.67	
06/27/07	10:29	500,361.20	4,435.90	725,434.05		0.07	Pump off intermittently f/ tank work
07/19/07	8:45	514,061.50	13,700.30	739,134.35		0.43	
07/19/07	11:25	514,119.20	57.70	739,192.05		0.36	
07/19/07	15:07	514,204.40	85.20	739,277.25		0.38	
07/19/07	16:12	514,251.80	47.40	739,324.65		0.73	
08/21/07	10:55	534,891.20	20,639.40	759,964.05		0.43	
08/21/07	14:23	534,986.50	95.30	760,059.35		0.46	
09/17/07	10:06	551,664.60	16,678.10	776,737.45		0.43	
09/17/07	10:59	551,711.20	46.60	776,784.05		0.88	
10/16/07	8:45	569,938.40	18,227.20	795,011.25		0.44	

TABLE 5
MW-6 EXTRACTION WELL RECOVERY VOLUMES
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Date	Time	Flowmeter Reading	Gallons Per Reading	Cumulative Gallons	Gallons Per Pumping Cycle	Gallons Per Minute	Comments
10/16/07	11:11	569,985.80	47.40	795,058.65		0.32	
11/20/07	8:40	591,598.70	21,612.90	816,671.55		0.43	
11/20/07	9:11	591,635.70	37.00	816,708.55		1.19	
12/21/07	8:15	611,077.40	19,441.70	836,150.25		0.44	
12/21/07	10:22	611,123.40	46.00	836,196.25		0.36	
01/22/08	10:50	627,483.90	16,360.50	852,556.75		0.36	
01/22/08	12:35	627,488.90	5.00	852,561.75		0.04	
02/27/08	8:52	626,666.60	-822.30	851,739.45		-0.02	****
02/27/08	11:25	626,863.90	197.30	851,936.75		1.55	
03/12/08	10:50	628,820.00	1,956.10	853,892.85		0.10	
03/25/08	9:35	639,930.90	11,110.90	865,003.75		0.59	
03/25/08	11:23	639,972.50	41.60	865,045.35		0.33	
04/29/08	8:50	662,693.50	22,721.00	887,766.35		0.45	
04/29/08	10:35	662,735.30	41.80	887,808.15		0.33	
05/05/08	13:45	666,464.20	3,728.90	891,537.05		0.43	
05/05/08	14:39	666,506.10	41.90	891,578.95		0.33	
06/10/08	8:45	688,437.80	21,931.70	913,510.65		0.42	
06/10/08	10:55	688,488.80	51.00	913,561.65		0.40	
07/15/08	9:10	708,547.60	20,058.80	933,620.45		0.40	
07/15/08	10:55	708,598.70	51.10	933,671.55		0.40	
08/19/08	8:40	709,904.40	1,305.70	934,977.25		0.03	Pump would not come on.
09/16/08	9:20	709,904.40	0.00	934,977.25		0.00	
10/02/08	8:30	709,949.00	44.60	935,021.85		0.00	Replace pump and restart pumping
10/02/08	10:15	710,037.40	88.40	935,110.25		0.70	
10/15/08	9:20	712,327.00	2,289.60	937,399.85		0.12	Repair piping insulation & heat tape
10/15/08	12:42	712,494.70	167.70	937,567.55		1.32	
11/12/08	8:43	721,969.10	9,474.40	947,041.95		0.23	
11/12/08	11:11	722,012.10	43.00	947,084.95		0.34	
12/11/08	9:00	739,633.90	17,621.80	964,706.75		0.42	
12/11/08	10:36	739,673.50	39.60	964,746.35		0.31	
01/13/09	9:19	757,707.20	18,033.70	982,780.05		0.38	
01/13/09	11:12	757,746.40	39.20	982,819.25		0.31	
02/11/09	9:19	773,145.50	15,399.10	998,218.35		0.37	
02/11/09	10:16	773,186.70	41.20	998,259.55		0.32	
03/10/09	9:15	787,205.80	14,019.10	1,012,278.65		0.36	
03/10/09	12:12	787,284.30	78.50	1,012,357.15		0.62	
04/13/09	11:20	805,014.60	17,730.30	1,030,087.45		0.36	
05/01/09	13:05	815,677.00	10,662.40	1,040,749.85		0.41	
06/08/09	11:11	833,037.90	17,360.90	1,058,110.75		0.32	
07/13/09	10:58	850,122.40	17,084.50	1,075,195.25		0.34	
08/10/09	11:00	863,446.60	13,324.20	1,088,519.45		0.33	
09/15/09	10:45	880,356.20	16,909.60	1,105,429.05		0.33	
10/06/09	11:08	890,205.00	9,848.80	1,115,277.85		0.33	
11/09/09	10:34	905,901.70	15,696.70	1,130,974.55		0.32	
12/23/09	11:48	925,741.90	19,840.20	1,150,814.75		0.31	
01/20/10	10:22	937,973.00	12,231.10	1,163,045.85		0.30	
02/09/10	10:49	946,651.00	8,678.00	1,171,723.85		0.30	
03/09/10	10:35	958,080.00	11,429.00	1,183,152.85		0.28	
04/12/10	10:54	972,369.70	14,289.70	1,197,442.55		0.29	
05/24/10	10:28	990,012.80	17,643.10	1,215,085.65		0.29	
06/14/10	10:27	998,522.90	8,510.10	1,223,595.75		0.28	
07/20/10	10:12	1,012,908.80	14,385.90	1,237,981.65		0.28	
08/11/10	9:49	1,021,696.40	8,787.60	1,246,769.25		0.28	
09/21/10	11:14	1,038,378.10	16,681.70	1,263,450.95		0.28	
09/28/10	11:30	1,040,828.30	2,450.20	1,265,901.15		0.24	

TABLE 5
MW-6 EXTRACTION WELL RECOVERY VOLUMES
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Date	*Time*	*Flowmeter Reading*	*Gallons Per Reading*	*Cumulative Gallons*	*Gallons Per Pumping Cycle*	*Gallons Per Minute*	*Comments*
10/20/10	10:45	1,049,402.70	8,574.40	1,274,475.55		0.27	
11/08/10	10:52	1,057,100.30	7,697.60	1,282,173.15		0.28	
12/07/10	10:42	1,072,691.90	15,591.60	1,297,764.75		0.37	
01/18/11	10:02	1,101,378.30	28,686.40	1,326,451.15		0.47	
02/08/11	8:50	1,102,475.20	1,096.90	1,327,548.05		0.04	pump off f/ repairs to flowline
03/08/11	9:15	1,102,475.20	0.00	1,327,548.05		0.00	pump off f/ repairs to tank
04/13/11	10:20	1,102,475.20	0.00	1,327,548.05		0.00	pump off f/ repairs to tank
05/23/11	11:02	1,114,673.40	12,198.20	1,339,746.25		0.21	
05/24/11	11:00	1,116,070.00	1,396.60	1,341,142.85		0.97	sample well
06/28/11	10:20	1,147,670.50	31,600.50	1,372,743.35		0.63	
07/19/11	10:45	1,166,178.10	18,507.60	1,391,250.95		0.61	
08/31/11	11:35	1,201,138.50	34,960.40	1,426,211.35		0.56	
09/27/11	11:28	1,224,932.00	58,753.90	1,450,004.85		0.58	
10/21/11	13:00	1,241,283.3	75,105.20	1,466,356.15		0.55	
11/29/11	11:24	1,268,280.8	67,142.30	1,493,353.65		0.52	
12/23/11	13:41	1,285,590.50	60,658.50	1,510,663.35		0.48	

APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL REPORTS – MAY 2011 AND OCTOBER 2011

Gulf Coast
ACCUTEST
LABORATORIES

06/17/11

Technical Report for

Conoco Phillips

TTETXM: Maljamar

Maljamar Gas Plant / 114-6400894

Accutest Job Number: T76891

Sampling Date: 05/24/11

Report to:

Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705
greg.pope@tetratech.com

ATTN: Greg Pope

Total number of pages in report: **134**

ACCREDITED IN ACCORDANCE WITH nelac

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

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Erica Cardenas 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Sample Summary

Conoco Phillips

Job No: T76891

TTETXM: Maljamar
Project No: Maljamar Gas Plant / 114-6400894

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
T76891-1	05/24/11	08:00	05/26/11	AQ	Ground Water	MW-17
T76891-2	05/24/11	08:30	05/26/11	AQ	Ground Water	MW-19
T76891-3	05/24/11	08:45	05/26/11	AQ	Ground Water	MW-15
T76891-4	05/24/11	09:00	05/26/11	AQ	Ground Water	MW-13
T76891-5	05/24/11	10:00	05/26/11	AQ	Ground Water	MW-16
T76891-6	05/24/11	10:50	05/26/11	AQ	Ground Water	MW-11
T76891-7	05/24/11	11:30	05/26/11	AQ	Ground Water	MW-14
T76891-8	05/24/11	12:45	05/26/11	AQ	Ground Water	MW-20
T76891-9	05/24/11	13:30	05/26/11	AQ	Ground Water	MW-18
T76891-10	05/24/11	14:00	05/26/11	AQ	Ground Water	MW-10
T76891-11	05/24/11	00:00	05/26/11	AQ	Trip Blank Water	TRIP BLANK
T76891-12	05/24/11	08:30	05/26/11	AQ	Ground Water	MW-12
T76891-13	05/24/11	09:00	05/26/11	AQ	Ground Water	EW-1

Sample Summary
(continued)

Conoco Phillips

Job No: T76891

TTETXM: Maljamar
Project No: Maljamar Gas Plant / 114-6400894

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
T76891-14	05/24/11	09:30	05/26/11	AQ	Ground Water	MW-4
T76891-15	05/24/11	10:00	05/26/11	AQ	Ground Water	MW-2
T76891-16	05/24/11	10:30	05/26/11	AQ	Ground Water	MW-5
T76891-17	05/24/11	11:00	05/26/11	AQ	Ground Water	MW-6
T76891-18	05/24/11	11:15	05/26/11	AQ	Ground Water	WW
T76891-19	05/24/11	00:01	05/26/11	AQ	Ground Water	DUP-1
T76891-20	05/24/11	00:02	05/26/11	AQ	Ground Water	DUP-2

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	T76891-1	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0008052.D	1	06/06/11	LT	n/a	n/a	VE406
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	112%		87-119%
460-00-4	4-Bromofluorobenzene	109%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	T76891-1	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4884.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00020	0.000042	mg/l	
208-96-8	Acenaphthylene	ND	0.00020	0.000073	mg/l	
120-12-7	Anthracene	ND	0.00020	0.000055	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	0.000042	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	0.000066	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	0.000062	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	0.000069	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	0.000057	mg/l	
218-01-9	Chrysene	ND	0.00020	0.000045	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	0.000061	mg/l	
206-44-0	Fluoranthene	ND	0.00020	0.000047	mg/l	
86-73-7	Fluorene	ND	0.00020	0.000066	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	0.000062	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00020	0.00012	mg/l	
91-20-3	Naphthalene	ND	0.00020	0.000077	mg/l	
85-01-8	Phenanthrene	ND	0.00020	0.000077	mg/l	
129-00-0	Pyrene	ND	0.00020	0.000081	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		17-131%
321-60-8	2-Fluorobiphenyl	107%		15-137%
1718-51-0	Terphenyl-d14	46%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	T76891-1	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	254000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	49700	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	237000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	T76891-1	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	182	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	182	5.0	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	1.8	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	683	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 14:10	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1960	17	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	281	25	mg/l	50	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	T76891-2	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0008053.D	1	06/06/11	LT	n/a	n/a	VE406
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-122%
17060-07-0	1,2-Dichloroethane-D4	106%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	107%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	T76891-2	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4885.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00020	0.000042	mg/l	
208-96-8	Acenaphthylene	ND	0.00020	0.000072	mg/l	
120-12-7	Anthracene	ND	0.00020	0.000054	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	0.000041	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	0.000064	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	0.000060	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	0.000068	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	0.000056	mg/l	
218-01-9	Chrysene	ND	0.00020	0.000044	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	0.000060	mg/l	
206-44-0	Fluoranthene	ND	0.00020	0.000046	mg/l	
86-73-7	Fluorene	ND	0.00020	0.000064	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	0.000061	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00020	0.00012	mg/l	
91-20-3	Naphthalene	ND	0.00020	0.000075	mg/l	
85-01-8	Phenanthrene	0.000083	0.00020	0.000075	mg/l	J
129-00-0	Pyrene	ND	0.00020	0.000079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		17-131%
321-60-8	2-Fluorobiphenyl	113%		15-137%
1718-51-0	Terphenyl-d14	77%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	T76891-2	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	126000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	34500	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	56000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	T76891-2	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	255	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	256	10	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	1.1	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	140	10	mg/l	20	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	1.4	0.50	mg/l	1	05/26/11 14:27	BF	EPA 300/SW846 9056
Solids, Total Dissolved	589	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	27.4	10	mg/l	20	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-15		
Lab Sample ID:	T76891-3	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034890.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	100%		87-119%
460-00-4	4-Bromofluorobenzene	107%		80-133%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-15		
Lab Sample ID:	T76891-3	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4886.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00020	0.000042	mg/l	
208-96-8	Acenaphthylene	ND	0.00020	0.000073	mg/l	
120-12-7	Anthracene	ND	0.00020	0.000055	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	0.000042	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	0.000066	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	0.000062	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	0.000069	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	0.000057	mg/l	
218-01-9	Chrysene	ND	0.00020	0.000045	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	0.000061	mg/l	
206-44-0	Fluoranthene	ND	0.00020	0.000047	mg/l	
86-73-7	Fluorene	ND	0.00020	0.000066	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	0.000062	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00020	0.00012	mg/l	
91-20-3	Naphthalene	ND	0.00020	0.000077	mg/l	
85-01-8	Phenanthrene	ND	0.00020	0.000077	mg/l	
129-00-0	Pyrene	ND	0.00020	0.000081	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		17-131%
321-60-8	2-Fluorobiphenyl	123%		15-137%
1718-51-0	Terphenyl-d14	69%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-15		
Lab Sample ID:	T76891-3	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	101000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	38200	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	57400	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-15		
Lab Sample ID:	T76891-3	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	213	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	216	5.0	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	0.98	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	144	5.0	mg/l	10	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 14:45	BF	EPA 300/SW846 9056
Solids, Total Dissolved	638	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	58.3	5.0	mg/l	10	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	T76891-4	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034891.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		79-122%
17060-07-0	1,2-Dichloroethane-D4	111%		75-121%
2037-26-5	Toluene-D8	106%		87-119%
460-00-4	4-Bromofluorobenzene	114%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	T76891-4	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4887.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000044	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000076	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000057	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000044	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000069	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000064	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000072	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000059	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000047	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000063	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000049	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000069	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000064	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000080	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000080	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000084	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	93%		17-131%
321-60-8	2-Fluorobiphenyl	123%		15-137%
1718-51-0	Terphenyl-d14	64%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	T76891-4	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	204000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	41400	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	73500	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	T76891-4	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	217	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	218	5.0	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	1.4	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	235	10	mg/l	20	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	15.0	0.50	mg/l	1	05/26/11 15:37	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1120	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	267	10	mg/l	20	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-16		
Lab Sample ID:	T76891-5	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034892.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	113%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-16		
Lab Sample ID:	T76891-5	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4888.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000043	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000074	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000055	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000042	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000066	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000062	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000070	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000057	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000046	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000061	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000047	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000066	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000062	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000078	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000077	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000081	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		17-131%
321-60-8	2-Fluorobiphenyl	114%		15-137%
1718-51-0	Terphenyl-d14	86%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-16		
Lab Sample ID:	T76891-5	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	158000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	45300	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	61600	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-16		
Lab Sample ID:	T76891-5	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	285	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	286	10	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	1.2	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	244	10	mg/l	20	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 12:38	BF	EPA 300/SW846 9056
Solids, Total Dissolved	894	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	92.2	10	mg/l	20	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	T76891-6	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034893.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0912	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-122%
17060-07-0	1,2-Dichloroethane-D4	112%		75-121%
2037-26-5	Toluene-D8	102%		87-119%
460-00-4	4-Bromofluorobenzene	111%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	T76891-6	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4891.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00020	0.000042	mg/l	
208-96-8	Acenaphthylene	ND	0.00020	0.000072	mg/l	
120-12-7	Anthracene	ND	0.00020	0.000054	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	0.000041	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	0.000064	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	0.000060	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	0.000068	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	0.000056	mg/l	
218-01-9	Chrysene	ND	0.00020	0.000044	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	0.000060	mg/l	
206-44-0	Fluoranthene	0.000051	0.00020	0.000046	mg/l	J
86-73-7	Fluorene	ND	0.00020	0.000064	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	0.000061	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00020	0.00012	mg/l	
91-20-3	Naphthalene	ND	0.00020	0.000075	mg/l	
85-01-8	Phenanthrene	0.000083	0.00020	0.000075	mg/l	J
129-00-0	Pyrene	ND	0.00020	0.000079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		17-131%
321-60-8	2-Fluorobiphenyl	113%		15-137%
1718-51-0	Terphenyl-d14	59%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	T76891-6	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	298000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	83700	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	6610	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	103000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	T76891-6	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	149	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	149	5.0	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	2.6	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	811	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	3.6	0.50	mg/l	1	05/26/11 13:30	BF	EPA 300/SW846 9056
Solids, Total Dissolved	2510	18	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	99.9	25	mg/l	50	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	T76891-7	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034894.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-122%
17060-07-0	1,2-Dichloroethane-D4	111%		75-121%
2037-26-5	Toluene-D8	101%		87-119%
460-00-4	4-Bromofluorobenzene	108%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	T76891-7	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4892.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000044	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000075	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000056	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000043	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000068	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000063	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000071	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000059	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000047	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000063	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000048	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000068	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000064	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000079	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000079	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000083	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		17-131%
321-60-8	2-Fluorobiphenyl	110%		15-137%
1718-51-0	Terphenyl-d14	54%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	T76891-7	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	525000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	133000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	57700	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	T76891-7	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	276	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	276	10	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	4.2	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	527	50	mg/l	100	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	16.0	0.50	mg/l	1	05/26/11 13:47	BF	EPA 300/SW846 9056
Solids, Total Dissolved	2980	20	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	1110	50	mg/l	100	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	T76891-8	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034895.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		79-122%
17060-07-0	1,2-Dichloroethane-D4	115%		75-121%
2037-26-5	Toluene-D8	105%		87-119%
460-00-4	4-Bromofluorobenzene	116%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	T76891-8	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4893.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000044	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000075	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000056	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000043	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000068	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000063	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000071	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000059	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000047	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000063	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000048	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000068	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000064	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000079	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000079	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000083	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		17-131%
321-60-8	2-Fluorobiphenyl	121%		15-137%
1718-51-0	Terphenyl-d14	59%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	T76891-8	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	2050000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]
Magnesium	632000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]
Potassium	53800	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [3]
Sodium	1000000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA5777
(2) Instrument QC Batch: MA5781
(3) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	T76891-8	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	101	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	101	5.0	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	7.6	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	6720	250	mg/l	500	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	3.4	0.50	mg/l	1	05/26/11 15:54	BF	EPA 300/SW846 9056
Solids, Total Dissolved	15200	200	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	571	250	mg/l	500	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-18		
Lab Sample ID:	T76891-9	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034896.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		79-122%
17060-07-0	1,2-Dichloroethane-D4	117%		75-121%
2037-26-5	Toluene-D8	106%		87-119%
460-00-4	4-Bromofluorobenzene	118%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-18		
Lab Sample ID:	T76891-9	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4894.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00022	0.000045	mg/l	
208-96-8	Acenaphthylene	ND	0.00022	0.000077	mg/l	
120-12-7	Anthracene	ND	0.00022	0.000058	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00022	0.000044	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00022	0.000069	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00022	0.000065	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00022	0.000073	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00022	0.000060	mg/l	
218-01-9	Chrysene	ND	0.00022	0.000048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00022	0.000064	mg/l	
206-44-0	Fluoranthene	ND	0.00022	0.000049	mg/l	
86-73-7	Fluorene	ND	0.00022	0.000069	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00022	0.000065	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00022	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00022	0.000081	mg/l	
85-01-8	Phenanthrene	ND	0.00022	0.000081	mg/l	
129-00-0	Pyrene	ND	0.00022	0.000085	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		17-131%
321-60-8	2-Fluorobiphenyl	98%		15-137%
1718-51-0	Terphenyl-d14	68%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-18		
Lab Sample ID:	T76891-9	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	2090000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]
Magnesium	680000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]
Potassium	33200	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [3]
Sodium	3290000	50000	ug/l	10	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA5777
(2) Instrument QC Batch: MA5781
(3) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-18		
Lab Sample ID:	T76891-9	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	130	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	130	5.0	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	9.5	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	15900	500	mg/l	1000	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	3.4	0.50	mg/l	1	05/26/11 16:11	BF	EPA 300/SW846 9056
Solids, Total Dissolved	25500	200	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	858	250	mg/l	500	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T76891-10	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034897.D	1	06/02/11	AK	n/a	n/a	VF4281
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		79-122%
17060-07-0	1,2-Dichloroethane-D4	114%		75-121%
2037-26-5	Toluene-D8	101%		87-119%
460-00-4	4-Bromofluorobenzene	113%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T76891-10	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4895.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000043	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000074	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000055	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000042	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000066	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000062	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000070	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000057	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000046	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000061	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000047	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000066	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000062	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000078	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000077	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000081	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		17-131%
321-60-8	2-Fluorobiphenyl	84%		15-137%
1718-51-0	Terphenyl-d14	63%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T76891-10	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	1310000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]
Magnesium	327000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [3]
Potassium	28300	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [3]
Sodium	3210000	50000	ug/l	10	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA5777
(2) Instrument QC Batch: MA5781
(3) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T76891-10	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	168	5.0	mg/l	1	06/07/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/07/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	168	5.0	mg/l	1	06/07/11 07:00	MC	SM 2320B
Bromide	8.8	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	10500	500	mg/l	1000	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	5.6	0.50	mg/l	1	05/26/11 16:29	BF	EPA 300/SW846 9056
Solids, Total Dissolved	19600	200	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	634	250	mg/l	500	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T76891-11	**Date Sampled:**	05/24/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034907.D	1	06/02/11	AK	n/a	n/a	VF4282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		79-122%
17060-07-0	1,2-Dichloroethane-D4	109%		75-121%
2037-26-5	Toluene-D8	106%		87-119%
460-00-4	4-Bromofluorobenzene	113%		80-133%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	T76891-12	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034912.D	1	06/02/11	AK	n/a	n/a	VF4282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	105%		87-119%
460-00-4	4-Bromofluorobenzene	117%		80-133%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	T76891-12	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4896.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000043	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000074	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000055	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000042	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000066	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000062	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000070	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000057	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000046	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000061	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000047	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000066	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000062	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000078	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000077	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000081	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		17-131%
321-60-8	2-Fluorobiphenyl	129%		15-137%
1718-51-0	Terphenyl-d14	67%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	T76891-12	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	3260000	50000	ug/l	10	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [4]
Magnesium	794000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [4]
Potassium	79100	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [4]
Sodium	15100000	250000	ug/l	50	05/31/11	06/17/11	NS	SW846 6010B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA5777
(2) Instrument QC Batch: MA5781
(3) Instrument QC Batch: MA5820
(4) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	T76891-12	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	114	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	114	5.0	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide [a]	9.7	5.0	mg/l	10	06/08/11	ES	SM18 4500BRB
Chloride	45500	2500	mg/l	5000	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	2.2	0.50	mg/l	1	05/26/11 16:46	BF	EPA 300/SW846 9056
Solids, Total Dissolved	66400	1000	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	1170	50	mg/l	100	06/08/11	ES	SM 4500 SO4

(a) Dilution required due to matrix interference.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	EW-1		
Lab Sample ID:	T76891-13	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034915.D	1	06/02/11	AK	n/a	n/a	VF4282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	90%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	119%		80-133%

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

Report of Analysis

Client Sample ID:	EW-1		
Lab Sample ID:	T76891-13	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4897.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000044	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000075	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000056	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000043	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000068	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000063	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000071	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000059	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000047	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000063	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000048	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000068	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000064	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000079	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000079	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000083	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		17-131%
321-60-8	2-Fluorobiphenyl	94%		15-137%
1718-51-0	Terphenyl-d14	76%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EW-1		
Lab Sample ID:	T76891-13	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	2450000	50000	ug/l	10	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [4]
Magnesium	694000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [4]
Potassium	69600	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [4]
Sodium	14400000	250000	ug/l	50	05/31/11	06/17/11	NS	SW846 6010B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA5777
(2) Instrument QC Batch: MA5781
(3) Instrument QC Batch: MA5820
(4) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	EW-1		
Lab Sample ID:	T76891-13	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	110	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	110	5.0	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide [a]	8.8	5.0	mg/l	10	06/08/11	ES	SM18 4500BRB
Chloride	32300	5000	mg/l	10000	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	0.57	0.50	mg/l	1	05/26/11 17:03	BF	EPA 300/SW846 9056
Solids, Total Dissolved	58300	1000	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	865	25	mg/l	50	06/08/11	ES	SM 4500 SO4

(a) Dilution required due to matrix interference.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T76891-14	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034950.D	1	06/03/11	AK	n/a	n/a	VF4284
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0475	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	0.0601	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	0.0417	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	94%		75-121%
2037-26-5	Toluene-D8	105%		87-119%
460-00-4	4-Bromofluorobenzene	120%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T76891-14	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4928.D	1	06/01/11	GJ	05/31/11	OP18669	EV295
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.00016	0.00020	0.000042	mg/l	J
208-96-8	Acenaphthylene	ND	0.00020	0.000072	mg/l	
120-12-7	Anthracene	ND	0.00020	0.000054	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	0.000041	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	0.000064	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	0.000060	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	0.000068	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	0.000056	mg/l	
218-01-9	Chrysene	ND	0.00020	0.000044	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	0.000060	mg/l	
206-44-0	Fluoranthene	0.000080	0.00020	0.000046	mg/l	J
86-73-7	Fluorene	0.00069	0.00020	0.000064	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	0.000061	mg/l	
91-57-6	2-Methylnaphthalene	0.0097	0.00020	0.00012	mg/l	
91-20-3	Naphthalene	0.0047	0.00020	0.000075	mg/l	
85-01-8	Phenanthrene	0.00023	0.00020	0.000075	mg/l	
129-00-0	Pyrene	ND	0.00020	0.000079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		17-131%
321-60-8	2-Fluorobiphenyl	65%		15-137%
1718-51-0	Terphenyl-d14	68%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T76891-14	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	183000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	51700	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	8380	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	111000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	T76891-14	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	164	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	164	5.0	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide	2.2	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	624	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 17:21	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1410	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	3.2	0.50	mg/l	1	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T76891-15	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034948.D	100	06/03/11	AK	n/a	n/a	VF4284
Run #2	F035020.D	500	06/06/11	AK	n/a	n/a	VF4287

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	51.3 [a]	1.0	0.25	mg/l	
108-88-3	Toluene	12.9	0.20	0.043	mg/l	
100-41-4	Ethylbenzene	0.679	0.20	0.055	mg/l	
1330-20-7	Xylene (total)	0.571	0.60	0.17	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	89%	98%	75-121%
2037-26-5	Toluene-D8	105%	104%	87-119%
460-00-4	4-Bromofluorobenzene	119%	117%	80-133%

(a) Result is from Run# 2

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T76891-15	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4929.D	1	06/01/11	GJ	05/31/11	OP18669	EV295
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00022	0.000046	mg/l	
208-96-8	Acenaphthylene	ND	0.00022	0.000079	mg/l	
120-12-7	Anthracene	ND	0.00022	0.000059	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00022	0.000045	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00022	0.000071	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00022	0.000066	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00022	0.000074	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00022	0.000061	mg/l	
218-01-9	Chrysene	ND	0.00022	0.000049	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00022	0.000065	mg/l	
206-44-0	Fluoranthene	ND	0.00022	0.000050	mg/l	
86-73-7	Fluorene	0.00032	0.00022	0.000071	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00022	0.000066	mg/l	
91-57-6	2-Methylnaphthalene	0.0096	0.00022	0.00013	mg/l	
91-20-3	Naphthalene	0.0083	0.00022	0.000083	mg/l	
85-01-8	Phenanthrene	0.00023	0.00022	0.000082	mg/l	
129-00-0	Pyrene	ND	0.00022	0.000087	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		17-131%
321-60-8	2-Fluorobiphenyl	19%		15-137%
1718-51-0	Terphenyl-d14	34%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T76891-15	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	291000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	57200	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	63600	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T76891-15	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	322	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	322	10	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide	3.9	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	563	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 17:38	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1740	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	5.3	0.50	mg/l	1	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T76891-16	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034993.D	1	06/05/11	AK	n/a	n/a	VF4286
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0013	0.0020	0.00050	mg/l	J
108-88-3	Toluene	0.00044	0.0020	0.00043	mg/l	J
100-41-4	Ethylbenzene	0.0696	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	0.0679	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	115%		75-121%
2037-26-5	Toluene-D8	108%		87-119%
460-00-4	4-Bromofluorobenzene	126%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T76891-16	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4937.D	1	06/01/11	GJ	05/31/11	OP18669	EV295
Run #2	V4923.D	20	06/01/11	GJ	05/31/11	OP18669	EV295

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2	890 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00022	0.000047	mg/l	
208-96-8	Acenaphthylene	ND	0.00022	0.000081	mg/l	
120-12-7	Anthracene	ND	0.00022	0.000060	mg/l	
56-55-3	Benzo(a)anthracene	0.000059	0.00022	0.000046	mg/l	J
50-32-8	Benzo(a)pyrene	ND	0.00022	0.000072	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00022	0.000068	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00022	0.000076	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00022	0.000063	mg/l	
218-01-9	Chrysene	0.000085	0.00022	0.000050	mg/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.00022	0.000067	mg/l	
206-44-0	Fluoranthene	ND	0.00022	0.000051	mg/l	
86-73-7	Fluorene	0.0016	0.00022	0.000072	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00022	0.000068	mg/l	
91-57-6	2-Methylnaphthalene	0.0694 [a]	0.0045	0.0027	mg/l	
91-20-3	Naphthalene	0.0164 [a]	0.0045	0.0017	mg/l	
85-01-8	Phenanthrene	0.0031	0.00022	0.000084	mg/l	
129-00-0	Pyrene	0.00026	0.00022	0.000089	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	168% [b]	34%	17-131%
321-60-8	2-Fluorobiphenyl	25%	58%	15-137%
1718-51-0	Terphenyl-d14	76%	69%	10-160%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T76891-16	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	250000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	40900	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	5030	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	160000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T76891-16	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	443	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	444	10	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide	1.2	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	499	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 17:55	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1520	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	4.1	0.50	mg/l	1	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T76891-17	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034951.D	5	06/03/11	AK	n/a	n/a	VF4284
Run #2 [a]	F034945.D	50	06/03/11	AK	n/a	n/a	VF4284
Run #3	F034989.D	100	06/05/11	AK	n/a	n/a	VF4286

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7.65 [b]	0.20	0.050	mg/l	
108-88-3	Toluene	0.483	0.010	0.0022	mg/l	
100-41-4	Ethylbenzene	0.268	0.010	0.0027	mg/l	
1330-20-7	Xylene (total)	0.182	0.030	0.0084	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	94%	95%	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	79%	90%	100%	75-121%
2037-26-5	Toluene-D8	106%	105%	105%	87-119%
460-00-4	4-Bromofluorobenzene	121%	119%	118%	80-133%

(a) Reported for QC purposes only.
(b) Result is from Run# 3

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T76891-17	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4930.D	1	06/01/11	GJ	05/31/11	OP18669	EV295
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000043	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000075	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000056	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000043	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000067	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000063	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000070	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000058	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000046	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000062	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000048	mg/l	
86-73-7	Fluorene	0.00025	0.00021	0.000067	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000063	mg/l	
91-57-6	2-Methylnaphthalene	0.0053	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	0.0041	0.00021	0.000078	mg/l	
85-01-8	Phenanthrene	0.00010	0.00021	0.000078	mg/l	J
129-00-0	Pyrene	ND	0.00021	0.000082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		17-131%
321-60-8	2-Fluorobiphenyl	68%		15-137%
1718-51-0	Terphenyl-d14	85%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T76891-17	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	174000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	68300	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	100000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T76891-17	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	203	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	204	5.0	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide	1.9	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	531	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 18:13	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1460	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	33.7	2.5	mg/l	5	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	WW		
Lab Sample ID:	T76891-18	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F035033.D	1	06/06/11	AK	n/a	n/a	VF4287
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	110%		87-119%
460-00-4	4-Bromofluorobenzene	126%		80-133%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	WW		
Lab Sample ID:	T76891-18	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4931.D	1	06/01/11	GJ	05/31/11	OP18669	EV295
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000043	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000075	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000056	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000043	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000067	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000063	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000070	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000058	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000046	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000062	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000048	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000067	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000063	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	ND	0.00021	0.000078	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000078	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		17-131%
321-60-8	2-Fluorobiphenyl	75%		15-137%
1718-51-0	Terphenyl-d14	92%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	WW		
Lab Sample ID:	T76891-18	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	141000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	59500	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	140000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	WW		
Lab Sample ID:	T76891-18	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	112	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	112	5.0	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide	2.6	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	486	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 19:05	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1300	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	127	25	mg/l	50	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	T76891-19	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F035023.D	1	06/06/11	AK	n/a	n/a	VF4287
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	127%		80-133%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	T76891-19	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4920.D	1	06/01/11	GJ	05/31/11	OP18669	EV295
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000043	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000075	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000056	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000043	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000067	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000063	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000070	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000058	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000046	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000062	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000048	mg/l	
86-73-7	Fluorene	ND	0.00021	0.000067	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000063	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	0.000079	0.00021	0.000078	mg/l	J
85-01-8	Phenanthrene	ND	0.00021	0.000078	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		17-131%
321-60-8	2-Fluorobiphenyl	68%		15-137%
1718-51-0	Terphenyl-d14	75%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	T76891-19	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	3230000	50000	ug/l	10	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [4]
Magnesium	808000	25000	ug/l	5	05/31/11	06/04/11	NS	SW846 6010B [2]	SW846 3010A [4]
Potassium	83700	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [4]
Sodium	15700000	250000	ug/l	50	05/31/11	06/17/11	NS	SW846 6010B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA5777
(2) Instrument QC Batch: MA5781
(3) Instrument QC Batch: MA5820
(4) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	T76891-19	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	105	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	105	5.0	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide [a]	10.2	5.0	mg/l	10	06/08/11	ES	SM18 4500BRB
Chloride	46600	2500	mg/l	5000	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	2.0	0.50	mg/l	1	05/26/11 19:22	BF	EPA 300/SW846 9056
Solids, Total Dissolved	75500	1000	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	1350	50	mg/l	100	06/08/11	ES	SM 4500 SO4

(a) Dilution required due to matrix interference.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	T76891-20	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F034953.D	5	06/03/11	AK	n/a	n/a	VF4284
Run #2	F034992.D	100	06/05/11	AK	n/a	n/a	VF4286

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	11.1 [a]	0.20	0.050	mg/l	
108-88-3	Toluene	0.649	0.010	0.0022	mg/l	
100-41-4	Ethylbenzene	0.283	0.010	0.0027	mg/l	
1330-20-7	Xylene (total)	0.200	0.030	0.0084	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	79%	97%	75-121%
2037-26-5	Toluene-D8	105%	104%	87-119%
460-00-4	4-Bromofluorobenzene	120%	117%	80-133%

(a) Result is from Run# 2

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	T76891-20	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	TTETXM: Maljamar		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V4932.D	1	06/01/11	GJ	05/31/11	OP18669	EV295
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.00021	0.000043	mg/l	
208-96-8	Acenaphthylene	ND	0.00021	0.000075	mg/l	
120-12-7	Anthracene	ND	0.00021	0.000056	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	0.000043	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	0.000067	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	0.000063	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	0.000070	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	0.000058	mg/l	
218-01-9	Chrysene	ND	0.00021	0.000046	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	0.000062	mg/l	
206-44-0	Fluoranthene	ND	0.00021	0.000048	mg/l	
86-73-7	Fluorene	0.00028	0.00021	0.000067	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	0.000063	mg/l	
91-57-6	2-Methylnaphthalene	0.0061	0.00021	0.00013	mg/l	
91-20-3	Naphthalene	0.0044	0.00021	0.000078	mg/l	
85-01-8	Phenanthrene	ND	0.00021	0.000078	mg/l	
129-00-0	Pyrene	ND	0.00021	0.000082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		17-131%
321-60-8	2-Fluorobiphenyl	68%		15-137%
1718-51-0	Terphenyl-d14	85%		10-160%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	T76891-20	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	192000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Magnesium	73600	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Potassium	< 5000	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]
Sodium	92500	5000	ug/l	1	05/31/11	06/03/11	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5777
(2) Prep QC Batch: MP14820

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	T76891-20	**Date Sampled:**	05/24/11
Matrix:	AQ - Ground Water	**Date Received:**	05/26/11
		Percent Solids:	n/a
Project:	TTETXM: Maljamar		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	211	5.0	mg/l	1	06/08/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	06/08/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	212	5.0	mg/l	1	06/07/11 09:00	MC	SM 2320B
Bromide	1.9	0.50	mg/l	1	06/08/11	ES	SM18 4500BRB
Chloride	549	25	mg/l	50	06/08/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	05/26/11 19:39	BF	EPA 300/SW846 9056
Solids, Total Dissolved	1380	10	mg/l	1	05/31/11	BG	SM 2540C
Sulfate	43.7	2.5	mg/l	5	06/08/11	ES	SM 4500 SO4

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # T76891

Client / Reporting Information

Company Name: TETRA Tech
Street Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Project Contact: G. Pope E-mail:
Phone #: 432 686 8081 Fax #:
Sampler(s) Name(s): J Davis Phone #:

Project Information

Project Name: Midland
Street:
City: Midland State: Nm
Client Purchase Order #:
Project #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

BTEX 8260 | TDS, Bromide, Sulfate, Chloride, Nitrate | PAH 8270 | Metals Ca, Mg, K, Na | Alkalinity, Carbon, Bicarb

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	Zn/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260	TDS, Bromide, Sulfate, Chloride, Nitrate	PAH 8270	Metals Ca, Mg, K, Na	Alkalinity, Carbon, Bicarb	LAB USE ONLY
1.	MW-17	5-24	800	JMD	GW	3	X												X					
1						1												X		X				
1						2												X			X			
1						1				X												X		
1			800			1						X											X	
2.	MW-19		830			3	X												X					
2						1						X								X				
2						3						X									X			
2						1				X												X		
2						1						X											X	
3	MW-15		845			3	X												X					
3	MW-15	5-24	845	JMD	GW	1						X								X				

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush TA data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 JMD	25-5-11 100	1 FEDEX	2 FEDEX	5/26/11 930	2 Belinda
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact	Preserved where applicable	On Ice Cooler Temp

T76891: Chain of Custody
Page 1 of 18

ACCUTEST

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # T76891

Client / Reporting Information

Company Name: Tetra Tech
Street Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Project Contact: G. Pope E-mail:
Phone #: 432 686 8081 Fax #:
Sampler(s) Name(s): JA Owens Phone #:

Project Information

Project Name:
Street: Malaga NM State:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

BTEX 8260; TDS, Bromide, Sulfate, Cl, Nitrate; PAH 8270; metals Ca, Mg, K, Na; Alkalinity, Carb, Bicarb

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
3	MW-15	5-24	845	JAO	GW	2						X							
3	MW-15					1				X									
3	MW-15					1						X							
4	MW-13		900			3	X												
4						1						X							
4						2						X							
4						1				X									
4						1						X							
5	MW-16		1000			3	X												
5						1						X							
5						2						X							
5	MW-16	5-24	1000	JAO	GW	1				X									

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	JAOwens	5-25-11 100	FEDEX	FEDEX	5/26/11 930	Belda Bay
3						
5				Custody Seal #	Intact	Preserved where applicable

On Ice | Cooler Temp.

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: T76891

Client / Reporting Information

Company Name: Tetra Tech
Street Address: 1910 W Bitters Rd
City: San Antonio State: TX Zip: 78248
Project Contact: G Pope E-mail:
Phone #: 432 682 0381 Fax #:
Sampler(s) Name(s): JA Deems Phone #:

Project Information

Project Name:
Street:
City: Midland State: TX
Project #:
Client Purchase Order #:
Project Manager:
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:

Requested Analyses

BTEX 8260 | TDS, Bromide, Sulfate, Cl, Alkalinity | PAH 8270 | Metals - Ca, Mg, K, Na | Alkalinity, Carb, Bicarb

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcet	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260	TDS, Bromide, Sulfate, Cl, Alkalinity	PAH 8270	Metals - Ca, Mg, K, Na	Alkalinity, Carb, Bicarb	LAB USE ONLY
5	MW-16	5-24-2011	1000	JAD	GW	1						X												
6	MW-11		1050			3	X												X					
6						1						X								X				
6						2						X									X			
6						1				X												X		
6						1						X											X	
7	MW-14		1130			3	X												X					
7						1						X								X				
7						2						X									X			
7						1				X												X		
7						1						X											X	
8	MW-20	5-24-2011	1245	JAD	GW	3	X												X					

Turnaround Time (Business days)

- [ ] Standard
- [ ] 6 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	JA Deems	5-25 100	FEDEX	FEDEX	5/26/11 930	
2						
3						
4						

Custody Seal # | Intact | Preserved where applicable | On Ice | Cooler Temp.

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: T76891

Client / Reporting Information

Company Name: Tetra Tech
Street Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Project Contact: G. Pope E-mail:
Phone #: 432 686 8081 Fax #:
Sampler(s) Name(s): SADens Phone #:

Project Information

Project Name:
Street:
City: Midland State: NM
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

BTEX 8260 | TDS, Bromide, Sulfate, Cl, Alkalinity | PAH 8270 | Metals, Ca, Mg, K, Na | Alkalinity, Carb, Bicarb

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260	TDS, Bromide, Sulfate, Cl, Alkalinity	PAH 8270	Metals, Ca, Mg, K, Na	Alkalinity, Carb, Bicarb	LAB USE ONLY
8	MW-20	5-24	1245	JAD	GW	1						X							X	X	X	X	X	
8						2						X									X			
8						1				X											X			
8						1						X										X	X	
9	MW-18		1130			3	X												X					
9						1						X								X				
9						2						X									X			
9						1				X												X		
9						1						X											X	
10	MW-10		200			3	X												X					
10			200			1						X								X				
10	MW-10	5-24	200	JAD	GW	2						X									X			

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 SADens	5-25-11 100	1 FEDEX	2 FEDEX	5/26/11 930	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact	Preserved where applicable	On Ice Cooler Temp.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 5 OF 2

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T76891

Client / Reporting Information

Company Name: TetraTech
Street Address: 1910 W Big Spring
City: Midland State: TX Zip: 79705
Project Contact: G. POPE E-mail:
Phone #: 432 6868081 Fax #:
Sampler(s) Name(s): SADEERS Phone #:

Project Information

Project Name:
Street:
City: Malyamar State: NM
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date (2011)	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260	TDS, Bromide, Sulfate, Cl, Nitrate	PAH 8270	Metals Ca, Mg, K, NA	Alkalinity, Carb, Bcarb	LAB USE ONLY
10	MW-10	5-24	700	SAD	GW	1				X												X		
10	MW-10	5-24	200	SAD	GW	1						X											X	
11	TRIP Blank	5-25																	X					
12	MW-12	5-25	830			3	X												X					
12						1						X								X				
12						2						X									X			
12						1				X												X		
12						1						X											X	
13	~~MW~~ EW-1	~~9~~ 5-25	900			3	X												X					
13						1						X								X				
13						2						X									X			
13	EW-1	5-25	900	SAD	GW	1				X												X		

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turnaround Time (Business days)

- ☐ Standard
- ☐ 5 Day RUSH
- ☐ 4 Day RUSH
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULT1 (Level 3+4)
- ☐ REDT1 (Level 3+4)
- ☐ Commercial "C"
- ☐ TRRP
- ☐ EDD Format
- ☐ Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 SADEERS	5-25-11 100	1 FEDEX	2 FEDEX	5/26/11 930	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

T76891: Chain of Custody
Page 5 of 18

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # T76891

Client / Reporting Information

Company Name: TetraTech
Street Address: 4910 N Big Spring
City: Midland State: TX Zip: 79705
Project Contact: G Pope E-mail:
Phone #: 432 686 8081 Fax #:
Sampler(s) Name(s): SA Peery Phone #:

Project Information

Project Name:
Street:
City: Malaga State: NM
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

BTEX 8260 | TDS, Bromide, Sulfate, Cl, Alkalinity | PAH 8270 | Metals CA, Mg, K, Na | Alkalinity, Carb, Bicarb

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SD - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	Zn Ac/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
13	EW-1	5/25	900	SAP	GW	1						X							
14	MW-4		930			3	X												
14						1						X							
14						2						X							
14						1					X								
14						1						X							
15	MW-3		1000			3													
15						1													
15						2													
15						1													
15	~~MW-5~~ MW-2					1													
16	MW-5	5-25	1030	SAP	GW	3	X												

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	SA Peery	5-25 1100	1 FEDEX	2 FEDEX	5/26/11 930	2
3			3	4		4
5			5	Custody Seal # ☐ Intact	Preserved where applicable	On Ice / Cooler Temp.

3.1 3

T76891: Chain of Custody
Page 6 of 18

CHAIN OF CUSTODY

PAGE 7 OF 8

ACCUTEST LABORATORIES

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: T76891

Client / Reporting Information

Company Name: TetraTech
Street Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Project Contact: G. POPE E-mail:
Phone #: 432 686 8081 Fax #:
Sampler(s) Name(s): S Deans Phone #:

Project Information

Project Name:
Street:
City: Malaga State: NM
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

BTEX 8260 | TDS, Bromide, Sulfate, Cl, Nitrate | PAH 8270 | Acetate, Ca, Mg, K, Na | Alkalinity, Carb, Bi carb

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
16	MW-5	5-25	1030	SAD	GW	1						X							
16	MW-5					2						X							
16	MW-5					1				X									
16	MW-5		↓			1						X							
17	MW-6		11.00			3	X												
17						1						X							
17						3						X							
17						1				X									
17	↓	↓	↓			1						X							
18	MW	~~5/25~~ 5/26	1115			3	X												
18	MW	~~5/25~~ 5/26	↓	↓	↓	1						X							
18	MW	~~5/25~~ 5/26	1115	SAD	GW	2						X							

Turnaround Time (Business days)

- ☐ Standard
- ☐ 5 Day *RUSH*
- ☐ 4 Day *RUSH*
- ☐ 3 Day *RUSH*
- ☐ 2 Day *RUSH*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULT1 (Level 3+4)
- ☐ REDT1 (Level 3+4)
- ☐ Commercial "C"
- ☐ TRRP
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	S Deans	5-25 1200	FEDEX	FEDEX	5/26/11 930	Belda Hay
2	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3						
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	☐ Intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.
5						

T76891: Chain of Custody
Page 7 of 18

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

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

3.1

3

Client / Reporting Information

Company Name: Tetra Tech
Street Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Project Contact: G. POPE E-mail
Phone #: 432 686 8081 Fax #
Sampler(s) Name(s): SR Deens Phone #

Project Information

Project Name:
Street
City: Maljamar State: NM
Project #
Client Purchase Order #
Project Manager

Billing Information (If different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analyses

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	Date (2011)	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260	TDS, Bromide, Sulfate, Cl, Nitrate	PAH 8270	Metals Ca Mg K Na	Alkalinity Carb, Bicarb	LAB USE ONLY
18	WW	5-25	1115	SRD	GW	1				X												X		
18	WW	5-25	1115			1						X											X	
19	DUP-1		0001			3	X												X					
19						1						X								X				
19						2						X									X			
19						1				X												X		
19						1						X											X	
20	DUP-2		0002			3	X												X					
20						1						X								X				
20						2						X									X			
20						1				X												X		
20	DUP-2	5-25	0002	SRD	GW	1						X											X	

Turnaround Time (Business days)
- [ ] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 S Deens	5-25-11 1030	1 FEDEX	2 FEDEX	5/26/11 930	2 [illegible]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

T76891: Chain of Custody
Page 8 of 18

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T76891 **Client:** TETRA TECH **Project:** MALJAMAR

Date / Time Received: 5/26/2011 **Delivery Method:** FedEx **Airbill #'s:** 4868-9990-0822,4868-9990-0800,4868-9990-0811,

No. Coolers: _____ **Therm ID:** _____ **Temp Adjustment Factor:** _____

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☐	☑

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:		

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☑	☐	☐	☑	☐
2. Trip Blank listed on COC:	☑	☐	☐		
3. Samples preserved properly:	☐	☑			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☐	☑

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☐	☑
3. Condition of sample:	Broken / Leaking	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments RECEIVED ONLY 1 BOTTLE FOR 8270 ON MW-17.
MW -19 DATE IS 5/23 ON CONTAINER AND ON C.O.C 5/24
MW-15 DATE IS 5/23 ON CONTAINER AND ON C.O.C. 5/24
MW-20 1 OF 2 CONTAINERS TIME IS 11:45 ON C.O.C. 12:45, ALSO THE ALKALINITY BOTTLE TIME IS 11:45, ON C.O.C. IS 12:45 THE METALS BOTTLE PRESERVED >2 ADDED 2MLS OF HN03 LOT #M2010007207.
MW-13 NITRATE BOTTLE RECEIVED OPEN AND EMPTY IN COOLER.

T76891: Chain of Custody
Page 9 of 18

ACCUTEST LABORATORIES

Problem Resolution

Accutest Job Number: T76891

CSR: Erica Cardenas **Response Date:** 5/31/2011

Response: Emailed client. 6/1: Per client:

1.) MW-17 well pumped dry, no further volume available for 2nd 8270 bottle.
2.) MW-19 collected on 5/24/11, as on COC.
3.) MW-15 collected on 5/24/11, as on COC.
4.) MW-20 collection time is 12:45, as on COC. Okay on nitric acid addition for pH >2.
5.) MW-13 pumped dry, no further volume available for nitrate analysis

Sample Receipt Log

Job #: T76891 **Date / Time Received:** 5/26/2011 9:30:00 AM **Initials:** BG

Client: TETRA TECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
7	T76891-1	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-1	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-1	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-1	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-1	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-1	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-1	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-2	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-2	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-2	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-2	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-2	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-2	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-2	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-2	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-3	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-3	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-3	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-3	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-3	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-3	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-3	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-3	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8

T76891: Chain of Custody
Page 11 of 18

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T76891 **Date / Time Received:** 5/26/2011 9:30:00 AM **Initials:** BG

Client: TETRA TECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
7	T76891-4	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-4	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-4	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-4	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-4	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-4	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-4	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-4	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-5	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-5	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-5	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-5	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-5	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-5	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-5	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-5	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-6	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-6	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-6	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-6	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-6	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-6	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-6	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8

T76891: Chain of Custody
Page 12 of 18

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T76891 **Date / Time Received:** 5/26/2011 9:30:00 AM **Initials:** BG

Client: TETRA TECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
7	T76891-6	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-7	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-7	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-7	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-7	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-7	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-7	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-7	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-7	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-8	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-8	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-8	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-8	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-8	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-8	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-8	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-8	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-9	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-9	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-9	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-9	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-9	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-9	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8

Sample Receipt Log

Job #: T76891 **Date / Time Received:** 5/26/2011 9:30:00 AM **Initials:** BG

Client: TETRA TECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
7	T76891-9	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-9	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-10	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-10	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-10	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-10	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-10	250 ml	6	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-10	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-10	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-10	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-11	40 ml	1	VR	HCL	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-11	40 ml	2	VR	HCL	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-12	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-12	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-12	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-12	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-12	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-12	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-12	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-12	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-13	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-13	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-13	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T76891 **Date / Time Received:** 5/26/2011 9:30:00 AM **Initials:** BG

Client: TETRA TECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
7	T76891-13	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-13	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-13	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-13	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-13	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-14	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-14	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-14	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-14	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-14	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-14	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-14	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-14	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-15	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-15	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-15	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-15	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-15	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-15	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-15	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-15	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-16	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-16	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T76891 **Date / Time Received:** 5/26/2011 9:30:00 AM **Initials:** BG

Client: TETRA TECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
7	T76891-16	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-16	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-16	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-16	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-16	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-16	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-17	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-17	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-17	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-17	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-17	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-17	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-17	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-17	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-18	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-18	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-18	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-18	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-18	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-18	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-18	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-18	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-19	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8

T76891: Chain of Custody
Page 16 of 18

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T76891 **Date / Time Received:** 5/26/2011 9:30:00 AM **Initials:** BG

Client: TETRA TECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
7	T76891-19	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-19	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-19	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-19	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-19	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-19	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-19	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-20	LAG	1	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-20	LAG	2	1E	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-20	1000 ml	3	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-20	500 ml	4	3P	N/P	Note #2 - Preservative check not applicable.	110	4.3	-0.5	3.8
7	T76891-20	250 ml	5	1D	HNO3	pH < 2	110	4.3	-0.5	3.8
7	T76891-20	40 ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-20	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8
7	T76891-20	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	110	4.3	-0.5	3.8

LOGIN REVIEW REPORT (ln01r) Accutest Laboratories Gulf Coast, Inc. May 28 2011, 01:36 pm CS Rep: GJ

Job Number: T76891 Client project:

Account: ~~PRIVATE~~ CONOCO Private

Project: PRIVATE10930 Maljamar NEW PROJECT 28-MAY-11

Report to: HC Date: 07-JUN-11 Deliv: COMMB StateCode: TX

CHECK
Client
Project
Deliverables
Matrix
TAT
Tests
Metals SW846

Sample Number	Client ID	Site	Matx	Receive Date	Collect Date/Time	TAT	Due Date	Samp By	Product List
T76891-1	MW-17		GW	26-MAY-11	24-MAY-11 08:00	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,ENERGY,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-2	MW-19		GW	26-MAY-11	24-MAY-11 08:30	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-3	MW-15		GW	26-MAY-11	24-MAY-11 08:45	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-4	MW-13		GW	26-MAY-11	24-MAY-11 09:00	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-5	MW-16		GW	26-MAY-11	24-MAY-11 10:00	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-6	MW-11		GW	26-MAY-11	24-MAY-11 10:50	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-7	MW-14		GW	26-MAY-11	24-MAY-11 11:30	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-8	MW-20		GW	26-MAY-11	24-MAY-11 12:45	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-9	MW-18		GW	26-MAY-11	24-MAY-11 13:30	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-10	MW-10		GW	26-MAY-11	24-MAY-11 14:00	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-11	TRIP BLANK		WTB	26-MAY-11	24-MAY-11 00:00	10	07-JUN-11		V8260BTX
T76891-12	MW-12		GW	26-MAY-11	24-MAY-11 08:30	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-13	EW-1		GW	26-MAY-11	24-MAY-11 09:00	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-14	MW-4		GW	26-MAY-11	24-MAY-11 09:30	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-15	MW-2		GW	26-MAY-11	24-MAY-11 10:00	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-16	MW-5		GW	26-MAY-11	24-MAY-11 10:30	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-17	MW-6		GW	26-MAY-11	24-MAY-11 11:00	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-18	WW		GW	26-MAY-11	24-MAY-11 11:15	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-19	DUP-1		GW	26-MAY-11	24-MAY-11 00:01	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX
T76891-20	DUP-2		GW	26-MAY-11	24-MAY-11 00:02	10	07-JUN-11		ALK,B8270SIMPAH,BIC,BRO,CA,CAR,CHL,K,METDIG,MG,NA,NO3O,SO4,TDS,V8260BTX

Page 1

3.1

3

T76891: Chain of Custody
Page 18 of 18

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4281-MB	F034880.D	1	06/02/11	AK	n/a	n/a	VF4281

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

T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	75-121%
2037-26-5	Toluene-D8	99%	87-119%
460-00-4	4-Bromofluorobenzene	106%	80-133%

Method Blank Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4282-MB	F034906.D	1	06/02/11	AK	n/a	n/a	VF4282

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

T76891-11, T76891-12, T76891-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	116%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	75-121%
2037-26-5	Toluene-D8	103%	87-119%
460-00-4	4-Bromofluorobenzene	110%	80-133%

Method Blank Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4284-MB	F034944.D	1	06/03/11	AK	n/a	n/a	VF4284

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

T76891-14, T76891-15, T76891-17, T76891-20

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	90%	75-121%
2037-26-5	Toluene-D8	105%	87-119%
460-00-4	4-Bromofluorobenzene	119%	80-133%

Method Blank Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4286-MB	F034988.D	1	06/05/11	AK	n/a	n/a	VF4286

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

T76891-16, T76891-17, T76891-20

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	75-121%
2037-26-5	Toluene-D8	105%	87-119%
460-00-4	4-Bromofluorobenzene	116%	80-133%

Method Blank Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE406-MB	E0008032.D	1	06/06/11	LT	n/a	n/a	VE406

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

T76891-1, T76891-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	110%	80-133%

Method Blank Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4287-MB	F035015.D	1	06/06/11	AK	n/a	n/a	VF4287

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

T76891-15, T76891-18, T76891-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	104%	87-119%
460-00-4	4-Bromofluorobenzene	117%	80-133%

Blank Spike Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4281-BS	F034878.D	1	06/02/11	AK	n/a	n/a	VF4281

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

T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	29.1	116	76-118
100-41-4	Ethylbenzene	25	24.4	98	75-112
108-88-3	Toluene	25	24.5	98	77-114
1330-20-7	Xylene (total)	75	74.1	99	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	112%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%
2037-26-5	Toluene-D8	101%	87-119%
460-00-4	4-Bromofluorobenzene	105%	80-133%

Blank Spike Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4282-BS	F034903.D	1	06/02/11	AK	n/a	n/a	VF4282

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

T76891-11, T76891-12, T76891-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	29.9	120* [a]	76-118
100-41-4	Ethylbenzene	25	24.2	97	75-112
108-88-3	Toluene	25	23.9	96	77-114
1330-20-7	Xylene (total)	75	72.7	97	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	121%	79-122%
17060-07-0	1,2-Dichloroethane-D4	117%	75-121%
2037-26-5	Toluene-D8	105%	87-119%
460-00-4	4-Bromofluorobenzene	112%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Blank Spike Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4284-BS	F034942.D	1	06/03/11	AK	n/a	n/a	VF4284

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

T76891-14, T76891-15, T76891-17, T76891-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.9	104	76-118
100-41-4	Ethylbenzene	25	27.2	109	75-112
108-88-3	Toluene	25	27.3	109	77-114
1330-20-7	Xylene (total)	75	82.7	110	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	75-121%
2037-26-5	Toluene-D8	98%	87-119%
460-00-4	4-Bromofluorobenzene	114%	80-133%

Blank Spike Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4286-BS	F034986.D	1	06/05/11	AK	n/a	n/a	VF4286

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

T76891-16, T76891-17, T76891-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.9	104	76-118
100-41-4	Ethylbenzene	25	25.2	101	75-112
108-88-3	Toluene	25	25.3	101	77-114
1330-20-7	Xylene (total)	75	76.3	102	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	75-121%
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	120%	80-133%

Blank Spike Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE406-BS	E0008013.D	1	06/06/11	LT	n/a	n/a	VE406

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

T76891-1, T76891-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	22.7	91	76-118
100-41-4	Ethylbenzene	25	23.6	94	75-112
108-88-3	Toluene	25	23.7	95	77-114
1330-20-7	Xylene (total)	75	71.0	95	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%
2037-26-5	Toluene-D8	116%	87-119%
460-00-4	4-Bromofluorobenzene	112%	80-133%

Blank Spike Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF4287-BS	F035013.D	1	06/06/11	AK	n/a	n/a	VF4287

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

T76891-15, T76891-18, T76891-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.7	103	76-118
100-41-4	Ethylbenzene	25	24.2	97	75-112
108-88-3	Toluene	25	24.1	96	77-114
1330-20-7	Xylene (total)	75	73.2	98	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	75-121%
2037-26-5	Toluene-D8	103%	87-119%
460-00-4	4-Bromofluorobenzene	112%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T77023-7MS	F034882.D	500	06/02/11	AK	n/a	n/a	VF4281
T77023-7MSD	F034883.D	500	06/02/11	AK	n/a	n/a	VF4281
T77023-7	F034898.D	50	06/02/11	AK	n/a	n/a	VF4281
T77023-7 [a]	F034881.D	500	06/02/11	AK	n/a	n/a	VF4281

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

T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10

CAS No.	Compound	T77023-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	972		12500	15700	118	15800	119*	1	76-118/16
100-41-4	Ethylbenzene	301		12500	12600	98	12600	98	0	75-112/12
108-88-3	Toluene	28.3	J	12500	12200	97	12300	98	1	77-114/12
1330-20-7	Xylene (total)	129	J	37500	37400	99	37200	99	1	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T77023-7	T77023-7	Limits
1868-53-7	Dibromofluoromethane	112%	111%	120%	111%	79-122%
17060-07-0	1,2-Dichloroethane-D4	110%	108%	113%	110%	75-121%
2037-26-5	Toluene-D8	99%	100%	106%	100%	87-119%
460-00-4	4-Bromofluorobenzene	105%	105%	113%	107%	80-133%

(a) Reported for QC purposes only.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T76891-12MS	F034913.D	1	06/02/11	AK	n/a	n/a	VF4282
T76891-12MSD	F034914.D	1	06/02/11	AK	n/a	n/a	VF4282
T76891-12	F034912.D	1	06/02/11	AK	n/a	n/a	VF4282

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

T76891-11, T76891-12, T76891-13

CAS No.	Compound	T76891-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	31.5	126*	31.2	125*	1	76-118/16
100-41-4	Ethylbenzene	ND		25	24.2	97	23.8	95	2	75-112/12
108-88-3	Toluene	ND		25	25.7	103	25.3	101	2	77-114/12
1330-20-7	Xylene (total)	ND		75	72.8	97	71.3	95	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T76891-12	Limits
1868-53-7	Dibromofluoromethane	112%	113%	115%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	108%	75-121%
2037-26-5	Toluene-D8	105%	104%	105%	87-119%
460-00-4	4-Bromofluorobenzene	118%	116%	117%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T76891-17MS	F034946.D	50	06/03/11	AK	n/a	n/a	VF4284
T76891-17MSD	F034947.D	50	06/03/11	AK	n/a	n/a	VF4284
T76891-17	F034951.D	5	06/03/11	AK	n/a	n/a	VF4284
T76891-17 [a]	F034945.D	50	06/03/11	AK	n/a	n/a	VF4284

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

T76891-14, T76891-15, T76891-17, T76891-20

CAS No.	Compound	T76891-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4890	E	1250	9160	342* [b]	9150	341* [b]	0	76-118/16
100-41-4	Ethylbenzene	268		1250	1560	103	1530	101	2	75-112/12
108-88-3	Toluene	483		1250	1720	99	1700	97	1	77-114/12
1330-20-7	Xylene (total)	182		3750	4240	108	4150	106	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T76891-17	T76891-17	Limits
1868-53-7	Dibromofluoromethane	96%	97%	94%	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	94%	79%	90%	75-121%
2037-26-5	Toluene-D8	106%	105%	106%	105%	87-119%
460-00-4	4-Bromofluorobenzene	116%	116%	121%	119%	80-133%

(a) Reported for QC purposes only.
(b) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T76891-17MS	F034990.D	100	06/05/11	AK	n/a	n/a	VF4286
T76891-17MSD	F034991.D	100	06/05/11	AK	n/a	n/a	VF4286
T76891-17	F034989.D	100	06/05/11	AK	n/a	n/a	VF4286

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

T76891-16, T76891-17, T76891-20

CAS No.	Compound	T76891-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	7650		2500	10000	94	9900	90	1	76-118/16
100-41-4	Ethylbenzene	187	J	2500	2730	102	2700	101	1	75-112/12
108-88-3	Toluene	329		2500	2890	102	2840	100	2	77-114/12
1330-20-7	Xylene (total)	ND		7500	7960	106	7800	104	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T76891-17	Limits
1868-53-7	Dibromofluoromethane	107%	106%	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	101%	100%	75-121%
2037-26-5	Toluene-D8	106%	107%	105%	87-119%
460-00-4	4-Bromofluorobenzene	118%	119%	118%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T77662-1MS	E0008034.D	1	06/06/11	LT	n/a	n/a	VE406
T77662-1MSD	E0008035.D	1	06/06/11	LT	n/a	n/a	VE406
T77662-1	E0008033.D	1	06/06/11	LT	n/a	n/a	VE406

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

T76891-1, T76891-2

CAS No.	Compound	T77662-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	27.0	108	25.8	103	5	76-118/16
100-41-4	Ethylbenzene	ND		25	28.1	112	26.8	107	5	75-112/12
108-88-3	Toluene	ND		25	28.5	114	26.8	107	6	77-114/12
1330-20-7	Xylene (total)	ND		75	85.5	114*	79.1	105	8	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T77662-1	Limits
1868-53-7	Dibromofluoromethane	107%	106%	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	101%	104%	75-121%
2037-26-5	Toluene-D8	109%	107%	109%	87-119%
460-00-4	4-Bromofluorobenzene	103%	106%	109%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T77115-3MS	F035018.D	1	06/06/11	AK	n/a	n/a	VF4287
T77115-3MSD	F035019.D	1	06/06/11	AK	n/a	n/a	VF4287
T77115-3	F035017.D	1	06/06/11	AK	n/a	n/a	VF4287

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

T76891-15, T76891-18, T76891-19

CAS No.	Compound	T77115-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	2.0 U		25	27.0	108	26.4	106	2	76-118/16
100-41-4	Ethylbenzene	2.0 U		25	25.2	101	24.7	99	2	75-112/12
108-88-3	Toluene	2.0 U		25	25.2	101	24.6	98	2	77-114/12
1330-20-7	Xylene (total)	6.0 U		75	77.0	103	75.1	100	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T77115-3	Limits
1868-53-7	Dibromofluoromethane	110%	110%	109%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	102%	75-121%
2037-26-5	Toluene-D8	106%	106%	105%	87-119%
460-00-4	4-Bromofluorobenzene	116%	117%	119%	80-133%

Gulf Coast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18669-MB	V4882.D	1	05/31/11	GJ	05/31/11	OP18669	EV293

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	ND	0.20	0.072	ug/l	
120-12-7	Anthracene	ND	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.060	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.068	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.056	ug/l	
218-01-9	Chrysene	ND	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.060	ug/l	
206-44-0	Fluoranthene	ND	0.20	0.046	ug/l	
86-73-7	Fluorene	ND	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.061	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.12	ug/l	
91-20-3	Naphthalene	ND	0.20	0.075	ug/l	
85-01-8	Phenanthrene	ND	0.20	0.075	ug/l	
129-00-0	Pyrene	ND	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	67%	17-131%
321-60-8	2-Fluorobiphenyl	94%	15-137%
1718-51-0	Terphenyl-d14	78%	10-160%

Blank Spike Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18669-BS	V4883.D	1	05/31/11	GJ	05/31/11	OP18669	EV293

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	5	2.4	48	10-125
208-96-8	Acenaphthylene	5	4.6	92	10-141
120-12-7	Anthracene	5	3.5	70	13-139
56-55-3	Benzo(a)anthracene	5	3.3	66	24-151
50-32-8	Benzo(a)pyrene	5	3.5	70	36-146
205-99-2	Benzo(b)fluoranthene	5	3.8	76	27-159
191-24-2	Benzo(g,h,i)perylene	5	4.1	82	21-156
207-08-9	Benzo(k)fluoranthene	5	3.6	72	26-157
218-01-9	Chrysene	5	4.5	90	26-146
53-70-3	Dibenzo(a,h)anthracene	5	4.0	80	23-161
206-44-0	Fluoranthene	5	3.5	70	20-140
86-73-7	Fluorene	5	3.0	60	16-126
193-39-5	Indeno(1,2,3-cd)pyrene	5	3.0	60	25-153
91-57-6	2-Methylnaphthalene	5	2.8	56	10-115
91-20-3	Naphthalene	5	3.1	62	11-111
85-01-8	Phenanthrene	5	2.8	56	23-135
129-00-0	Pyrene	5	3.7	74	27-138

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	56%	17-131%
321-60-8	2-Fluorobiphenyl	90%	15-137%
1718-51-0	Terphenyl-d14	73%	10-160%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T76891
Account: CONOCO Conoco Phillips
Project: TTETXM: Maljamar

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18669-MS	V4889.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
OP18669-MSD	V4890.D	1	05/31/11	GJ	05/31/11	OP18669	EV293
T76891-5	V4888.D	1	05/31/11	GJ	05/31/11	OP18669	EV293

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

CAS No.	Compound	T76891-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		11.8	7.4	63	8.2	70	10	10-134/52
208-96-8	Acenaphthylene	ND		11.8	9.8	83	12.5	106	24	10-151/51
120-12-7	Anthracene	ND		11.8	9.3	79	11.0	94	17	10-155/42
56-55-3	Benzo(a)anthracene	ND		11.8	8.9	76	10.8	92	19	13-169/20
50-32-8	Benzo(a)pyrene	ND		11.8	7.8	66	9.9	84	24	14-167/28
205-99-2	Benzo(b)fluoranthene	ND		11.8	8.0	68	9.7	82	19	10-177/28
191-24-2	Benzo(g,h,i)perylene	ND		11.8	10	85	13.0	111	26	10-180/28
207-08-9	Benzo(k)fluoranthene	ND		11.8	11.2	95	13.6	116	19	14-174/36
218-01-9	Chrysene	ND		11.8	11.0	94	13.7	116	22	10-169/37
53-70-3	Dibenzo(a,h)anthracene	ND		11.8	9.3	79	12.1	103	26	10-178/36
206-44-0	Fluoranthene	ND		11.8	10.4	88	11.8	100	13	10-151/25
86-73-7	Fluorene	ND		11.8	7.5	64	9.9	84	28	10-145/44
193-39-5	Indeno(1,2,3-cd)pyrene	ND		11.8	8.9	76	11.3	96	24	10-168/27
91-57-6	2-Methylnaphthalene	ND		11.8	7.5	64	9.7	82	26	10-134/45
91-20-3	Naphthalene	ND		11.8	8.2	70	10.4	88	24	10-126/50
85-01-8	Phenanthrene	ND		11.8	9.1	77	11.0	94	19	10-150/43
129-00-0	Pyrene	ND		11.8	8.7	74	10.5	89	19	10-189/35

CAS No.	Surrogate Recoveries	MS	MSD	T76891-5	Limits
4165-60-0	Nitrobenzene-d5	74%	87%	89%	17-131%
321-60-8	2-Fluorobiphenyl	94%	109%	114%	15-137%
1718-51-0	Terphenyl-d14	54%	67%	86%	10-160%

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

QC Batch ID: MP14820
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/31/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25	13.1	<5000
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23		
Lead	3.0	1	1.8		
Lithium	300	2	2		
Magnesium	5000	7.7	7.9	6.5	<5000
Manganese	15	.054	1.9		
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45	-70	<5000
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100	143	<5000
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5		

Associated samples MP14820: T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

QC Batch ID: MP14820
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			05/31/11				05/31/11		
Metal	T76891-1 Original	DUP	RPD	QC Limits	T76891-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium	254000	244000	4.0	0-20	254000	293000	50000	78.0 (a)	80-120
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Lithium									
Magnesium	49700	48700	2.0	0-20	49700	97500	50000	95.6	80-120
Manganese									
Molybdenum									
Nickel									
Potassium	4050	3830	5.6	0-20	4050	57300	50000	106.5	80-120
Selenium									
Silver									
Sodium	237000	228000	3.9	0-20	237000	273000	50000	72.0 (a)	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP14820: T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

QC Batch ID: MP14820
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/31/11

Metal	T76891-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	254000	295000	50000	82.0	0.7	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	49700	97600	50000	95.8	0.1	20
Manganese						
Molybdenum						
Nickel						
Potassium	4050	58100	50000	108.1	1.4	20
Selenium						
Silver						
Sodium	237000	272000	50000	70.0 (a)	0.4	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP14820: T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

QC Batch ID: MP14820
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/31/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	53300	50000	106.6	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	51200	50000	102.4	80-120
Manganese				
Molybdenum				
Nickel				
Potassium	53200	50000	106.4	80-120
Selenium				
Silver				
Sodium	52600	50000	105.2	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP14820: T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

QC Batch ID: MP14820
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/31/11

Metal	T76891-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	254000	258000	1.5	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	49700	50400	1.3	0-10
Manganese				
Molybdenum				
Nickel				
Potassium	4050	3320	18.0*(a)	0-10
Selenium				
Silver				
Sodium	237000	244000	3.0	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP14820: T76891-1, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

Gulf Coast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate	GN31821	5.0	1.0	mg/l				
Alkalinity, Bicarbonate	GN31857	5.0	0.0	mg/l				
Alkalinity, Carbonate	GN31820	5.0	0.0	mg/l				
Alkalinity, Carbonate	GN31856	5.0	0.0	mg/l				
Alkalinity, Total as CaCO3	GN31819	5.0	0.0	mg/l	2500	2620	105.0	80-120%
Alkalinity, Total as CaCO3	GN31855	5.0	2.0	mg/l	2500	2540	102.0	80-120%
Bromide	GP13319/GN31870	0.50	<0.50	mg/l	10	10.3	103.0	80-120%
Nitrogen, Nitrate	GP13143/GN31803	0.50	0.0	mg/l	10	9.26	92.6	90-110%
Solids, Total Dissolved	GN31618	10	0.0	mg/l	500	484	96.8	80-120%

Associated Samples:
Batch GN31618: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31819: T76891-1, T76891-10, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31820: T76891-1, T76891-10, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31821: T76891-1, T76891-10, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31855: T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20
Batch GN31856: T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20
Batch GN31857: T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20
Batch GP13143: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GP13319: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Bicarbonate	GN31821	T76891-1	mg/l	182	182	0.0	0-20%
Alkalinity, Bicarbonate	GN31857	T76891-12	mg/l	114	114	0.0	0-20%
Alkalinity, Carbonate	GN31820	T76891-1	mg/l	0.0	0.0	0.0	0-20%
Alkalinity, Carbonate	GN31856	T76891-12	mg/l	0.0	0.0	0.0	0-20%
Alkalinity, Total as CaCO3	GN31819	T76891-1	mg/l	182	182	0.0	0-10%
Alkalinity, Total as CaCO3	GN31855	T76891-12	mg/l	114	114	0.0	0-10%
Bromide	GP13319/GN31870	T76891-2	mg/l	1.1	1.1	2.4	0-20%
Chloride	GN31870	T76891-2	mg/l	140	136	2.5	0-5%
Nitrogen, Nitrate	GP13143/GN31803	T76891-5	mg/l	0.0	0.0	0.0	0-20%
Solids, Total Dissolved	GN31618	T76891-14	mg/l	1410	1470	4.2	0-5%
Sulfate	GN31870	T76891-1	mg/l	281	26.8	2.4	0-20%

Associated Samples:
Batch GN31618: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31819: T76891-1, T76891-10, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31820: T76891-1, T76891-10, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31821: T76891-1, T76891-10, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31855: T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20
Batch GN31856: T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20
Batch GN31857: T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20
Batch GN31870: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GP13143: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GP13319: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
(*) Outside of QC limits

7.2

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T76891
Account: CONOCO - Conoco Phillips
Project: TTETXM: Maljamar

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN31855	T76891-12	mg/l	114	25	139	100.0	79-122%
Bromide	GP13319/GN31870	T76891-2	mg/l	1.1	10	11.7	105.8	75-125%
Chloride	GN31870	T76891-2	mg/l	140	200	342	103.0	81-119%
Nitrogen, Nitrate	GP13143/GN31803	T76891-5	mg/l	0.0	10	9.1	91.0	80-120%
Sulfate	GN31870	T76891-1	mg/l	281	200	228	100.1	75-125%

Associated Samples:
Batch GN31819: T76891-1, T76891-10, T76891-2, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GN31855: T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-20
Batch GN31870: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GP13143: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
Batch GP13319: T76891-1, T76891-10, T76891-12, T76891-13, T76891-14, T76891-15, T76891-16, T76891-17, T76891-18, T76891-19, T76891-2, T76891-20, T76891-3, T76891-4, T76891-5, T76891-6, T76891-7, T76891-8, T76891-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

November 15, 2011

Ken Horton
CRA
2135 South Loop, 250 West
Midland, TX 79703

RE: Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Dear Ken Horton:
Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60109015001	MW-2	Water	10/25/11 11:58	10/28/11 09:30
60109015002	MW-4	Water	10/26/11 13:00	10/28/11 09:30
60109015003	MW-6	Water	10/25/11 13:10	10/28/11 09:30
60109015004	MW-10	Water	10/26/11 11:25	10/28/11 09:30
60109015005	MW-11	Water	10/26/11 11:05	10/28/11 09:30
60109015006	MW-12	Water	10/26/11 13:55	10/28/11 09:30
60109015007	MW-13	Water	10/26/11 13:15	10/28/11 09:30
60109015008	MW-14	Water	10/25/11 13:30	10/28/11 09:30
60109015009	MW-15	Water	10/26/11 12:40	10/28/11 09:30
60109015010	MW-16	Water	10/26/11 12:25	10/28/11 09:30
60109015011	MW-17	Water	10/26/11 12:10	10/28/11 09:30
60109015012	MW-18	Water	10/26/11 11:58	10/28/11 09:30
60109015013	MW-19	Water	10/26/11 13:40	10/28/11 09:30
60109015014	MW-20	Water	10/26/11 11:35	10/28/11 09:30
60109015015	WW	Water	10/25/11 12:36	10/28/11 09:30
60109015016	EW-1	Water	10/25/11 12:55	10/28/11 09:30
60109015017	DUP-1	Water	10/26/11 00:00	10/28/11 09:30
60109015018	DUP-2	Water	10/26/11 00:00	10/28/11 09:30
60109015019	TRIP	Water	10/26/11 00:00	10/28/11 09:30

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60109015001	MW-2	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015002	MW-4	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	CMC	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015003	MW-6	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	CMC, HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015004	MW-10	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015005	MW-11	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015006	MW-12	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015007	**MW-13**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015008	**MW-14**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS, PRG	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015009	**MW-15**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015010	**MW-16**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015011	**MW-17**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015012	**MW-18**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015013	**MW-19**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015014	**MW-20**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015015	**WW**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS, PRG	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015016	**EW-1**	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS, PRG	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 353.2	AJM	1
60109015017	DUP-1	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	HNS	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015018	DUP-2	EPA 6010	SMW	4
		EPA 8270 by SIM	JTK	19
		EPA 8260	CMC	9
		SM 2320B	AJM	3
		SM 2540C	KLB	1
		EPA 300.0	JPF	3
		EPA 353.2	AJM	1
60109015019	TRIP	EPA 8260	HNS	9

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 6010**
Description: 6010 MET ICP
Client: COP_CRA Midland, TX
Date: November 15, 2011

General Information:
18 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MPRP/15907

1e: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Sample result is greater than four times the spike.

- MS (Lab ID: 903331)
  - Calcium
  - Potassium
  - Magnesium
  - Sodium

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP_CRA Midland, TX
Date: November 15, 2011

General Information:
18 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/30935

S0: Surrogate recovery outside laboratory control limits.

- MW-4 (Lab ID: 60109015002)
  - Nitrobenzene-d5 (S)
  - Terphenyl-d14 (S)

QC Batch: OEXT/30950

S0: Surrogate recovery outside laboratory control limits.

- DUP-2 (Lab ID: 60109015018)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/9642

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP_CRA Midland, TX
Date: November 15, 2011

QC Batch: OEXT/30950

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60109085018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 903195)
  - Acenaphthene
  - Fluorene
  - Naphthalene
- MSD (Lab ID: 903196)
  - Acenaphthene
  - Fluorene
  - Naphthalene
  - Phenanthrene

QC Batch: MSSV/9678

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP_CRA Midland, TX
Date: November 15, 2011

General Information:
19 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-6 (Lab ID: 60109015003)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/41478
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/41489
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/41503
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/41525
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/41561
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP_CRA Midland, TX
Date: November 15, 2011

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/41478

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MW-6 (Lab ID: 60109015003)
  - Ethylbenzene
  - Toluene
  - Benzene

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP_CRA Midland, TX
Date: November 15, 2011

General Information:
18 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP_CRA Midland, TX
Date: November 15, 2011

General Information:
18 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP_CRA Midland, TX
Date: November 15, 2011

General Information:
18 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP_CRA Midland, TX
Date: November 15, 2011

General Information:
18 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- DUP-1 (Lab ID: 60109015017)
- DUP-2 (Lab ID: 60109015018)
- MW-10 (Lab ID: 60109015004)
- MW-11 (Lab ID: 60109015005)
- MW-12 (Lab ID: 60109015006)
- MW-15 (Lab ID: 60109015009)
- MW-16 (Lab ID: 60109015010)
- MW-17 (Lab ID: 60109015011)
- MW-18 (Lab ID: 60109015012)
- MW-19 (Lab ID: 60109015013)
- MW-20 (Lab ID: 60109015014)
- MW-4 (Lab ID: 60109015002)

H3: Sample was received outside EPA method holding time.
- EW-1 (Lab ID: 60109015016)
- MW-13 (Lab ID: 60109015007)
- MW-14 (Lab ID: 60109015008)
- MW-2 (Lab ID: 60109015001)
- MW-6 (Lab ID: 60109015003)
- WW (Lab ID: 60109015015)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP_CRA Midland, TX
Date: November 15, 2011

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-2 **Lab ID: 60109015001** Collected: 10/25/11 11:58 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**289000**	ug/L	500	5	11/02/11 17:00	11/07/11 12:42	7440-70-2	
Magnesium	**52700**	ug/L	250	5	11/02/11 17:00	11/07/11 12:42	7439-95-4	
Potassium	**3420**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:42	7440-09-7	
Sodium	**72000**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:42	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	**0.11**	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	83-32-9	
Acenaphthylene	**0.13**	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	207-08-9	
Chrysene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	206-44-0	
Fluorene	**0.62**	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	193-39-5	
Naphthalene	**10.8**	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	10/31/11 00:00	11/10/11 09:32	85-01-8	
Pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:32	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	47	%	42-112	1	10/31/11 00:00	11/10/11 09:32	4165-60-0	
2-Fluorobiphenyl (S)	67	%	44-115	1	10/31/11 00:00	11/10/11 09:32	321-60-8	
Terphenyl-d14 (S)	54	%	46-131	1	10/31/11 00:00	11/10/11 09:32	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**49400**	ug/L	1000	1000		11/08/11 12:52	71-43-2	
Ethylbenzene	**1110**	ug/L	1000	1000		11/08/11 12:52	100-41-4	
Toluene	**11800**	ug/L	1000	1000		11/08/11 12:52	108-88-3	
Xylene (Total)	ND	ug/L	3000	1000		11/08/11 12:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	86-112	1000		11/08/11 12:52	1868-53-7	
Toluene-d8 (S)	101	%	90-110	1000		11/08/11 12:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1000		11/08/11 12:52	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1000		11/08/11 12:52	17060-07-0	
Preservation pH	**1.0**		1.0	1000		11/08/11 12:52		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**560**	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Total as CaCO3	**560**	mg/L	20.0	1		11/07/11 11:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1640**	mg/L	5.0	1		10/31/11 12:09		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-2 **Lab ID: 60109015001** Collected: 10/25/11 11:58 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**3.6**	mg/L	1.0	1		11/05/11 12:53	24959-67-9	
Chloride	**528**	mg/L	50.0	50		11/07/11 13:23	16887-00-6	
Sulfate	**5.4**	mg/L	1.0	1		11/05/11 12:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 16:44		H3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-4 **Lab ID: 60109015002** Collected: 10/26/11 13:00 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**201000**	ug/L	500	5	11/02/11 17:00	11/07/11 12:46	7440-70-2	
Magnesium	**54600**	ug/L	250	5	11/02/11 17:00	11/07/11 12:46	7439-95-4	
Potassium	**8140**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:46	7440-09-7	
Sodium	**82700**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:46	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	**0.21**	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	83-32-9	
Acenaphthylene	**0.13**	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	206-44-0	
Fluorene	**0.66**	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	193-39-5	
Naphthalene	**4.4**	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 05:13	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:13	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	118	%	42-112	1	11/01/11 00:00	11/09/11 05:13	4165-60-0	S0
2-Fluorobiphenyl (S)	75	%	44-115	1	11/01/11 00:00	11/09/11 05:13	321-60-8	
Terphenyl-d14 (S)	40	%	46-131	1	11/01/11 00:00	11/09/11 05:13	1718-51-0	S0
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**34.5**	ug/L	1.0	1		11/09/11 16:38	71-43-2	
Ethylbenzene	**50.0**	ug/L	1.0	1		11/09/11 16:38	100-41-4	
Toluene	ND	ug/L	1.0	1		11/09/11 16:38	108-88-3	
Xylene (Total)	**13.6**	ug/L	3.0	1		11/09/11 16:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	86-112	1		11/09/11 16:38	1868-53-7	
Toluene-d8 (S)	101	%	90-110	1		11/09/11 16:38	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/09/11 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		11/09/11 16:38	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/09/11 16:38		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**184**	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Total as CaCO3	**184**	mg/L	20.0	1		11/07/11 11:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1300**	mg/L	5.0	1		11/02/11 15:59		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-4 **Lab ID: 60109015002** Collected: 10/26/11 13:00 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.4**	mg/L	1.0	1		11/05/11 13:59	24959-67-9	
Chloride	**515**	mg/L	50.0	50		11/07/11 13:56	16887-00-6	
Sulfate	ND	mg/L	1.0	1		11/05/11 13:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 16:46		H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-6 **Lab ID: 60109015003** Collected: 10/25/11 13:10 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**185000**	ug/L	500	5	11/02/11 17:00	11/07/11 12:50	7440-70-2	
Magnesium	**73200**	ug/L	250	5	11/02/11 17:00	11/07/11 12:50	7439-95-4	
Potassium	**3950**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:50	7440-09-7	
Sodium	**188000**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:50	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	207-08-9	
Chrysene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	206-44-0	
Fluorene	**0.19**	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	193-39-5	
Naphthalene	**4.1**	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	10/31/11 00:00	11/10/11 09:53	85-01-8	
Pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 09:53	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	83	%	42-112	1	10/31/11 00:00	11/10/11 09:53	4165-60-0	
2-Fluorobiphenyl (S)	70	%	44-115	1	10/31/11 00:00	11/10/11 09:53	321-60-8	
Terphenyl-d14 (S)	72	%	46-131	1	10/31/11 00:00	11/10/11 09:53	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**808**	ug/L	1.0	1		11/07/11 20:21	71-43-2	E
Benzene	**14300**	ug/L	100	100		11/09/11 13:50	71-43-2	H1
Ethylbenzene	**234**	ug/L	1.0	1		11/07/11 20:21	100-41-4	E
Ethylbenzene	**266**	ug/L	100	100		11/09/11 13:50	100-41-4	H1
Toluene	**203**	ug/L	1.0	1		11/07/11 20:21	108-88-3	E
Toluene	**260**	ug/L	100	100		11/09/11 13:50	108-88-3	H1
Xylene (Total)	**174**	ug/L	3.0	1		11/07/11 20:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	86-112	100		11/09/11 13:50	1868-53-7	
Dibromofluoromethane (S)	91	%	86-112	1		11/07/11 20:21	1868-53-7	
Toluene-d8 (S)	100	%	90-110	100		11/09/11 13:50	2037-26-5	
Toluene-d8 (S)	97	%	90-110	1		11/07/11 20:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-113	100		11/09/11 13:50	460-00-4	
4-Bromofluorobenzene (S)	102	%	87-113	1		11/07/11 20:21	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	100		11/09/11 13:50	17060-07-0	
1,2-Dichloroethane-d4 (S)	1	%	82-119	1		11/07/11 20:21	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/07/11 20:21		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-6 **Lab ID: 60109015003** Collected: 10/25/11 13:10 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**212**	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Total as CaCO3	**212**	mg/L	20.0	1		11/07/11 11:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1960**	mg/L	5.0	1		10/31/11 12:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.7**	mg/L	1.0	1		11/05/11 16:11	24959-67-9	
Chloride	**791**	mg/L	50.0	50		11/05/11 16:28	16887-00-6	
Sulfate	**36.9**	mg/L	2.0	2		11/07/11 15:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 16:48		H3

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-10 **Lab ID: 60109015004** Collected: 10/26/11 11:25 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**856000**	ug/L	500	5	11/02/11 17:00	11/07/11 12:53	7440-70-2	
Magnesium	**181000**	ug/L	250	5	11/02/11 17:00	11/07/11 12:53	7439-95-4	
Potassium	**10500**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:53	7440-09-7	
Sodium	**778000**	ug/L	2500	5	11/02/11 17:00	11/07/11 12:53	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 05:34	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 05:34	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	74	%	42-112	1	11/01/11 00:00	11/09/11 05:34	4165-60-0	
2-Fluorobiphenyl (S)	74	%	44-115	1	11/01/11 00:00	11/09/11 05:34	321-60-8	
Terphenyl-d14 (S)	80	%	46-131	1	11/01/11 00:00	11/09/11 05:34	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 03:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 03:23	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 03:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 03:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	86-112	1		11/08/11 03:23	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		11/08/11 03:23	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/08/11 03:23	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		11/08/11 03:23	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 03:23		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**300**	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Total as CaCO3	**300**	mg/L	20.0	1		11/07/11 11:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**6480**	mg/L	5.0	1		11/02/11 15:59		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-10 **Lab ID: 60109015004** Collected: 10/26/11 11:25 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**5.1**	mg/L	1.0	1		11/05/11 16:44	24959-67-9	
Chloride	**2880**	mg/L	200	200		11/07/11 15:35	16887-00-6	
Sulfate	**369**	mg/L	100	100		11/05/11 17:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.0**	mg/L	0.10	1		10/28/11 16:51		H1

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-11 **Lab ID: 60109015005** Collected: 10/26/11 11:05 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**325000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:04	7440-70-2	
Magnesium	**85700**	ug/L	250	5	11/02/11 17:00	11/07/11 13:04	7439-95-4	
Potassium	**6260**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:04	7440-09-7	
Sodium	**101000**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:04	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 13:06	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:06	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	73	%	42-112	1	11/01/11 00:00	11/09/11 13:06	4165-60-0	
2-Fluorobiphenyl (S)	74	%	44-115	1	11/01/11 00:00	11/09/11 13:06	321-60-8	
Terphenyl-d14 (S)	85	%	46-131	1	11/01/11 00:00	11/09/11 13:06	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 03:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 03:39	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 03:39	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 03:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	86-112	1		11/08/11 03:39	1868-53-7	
Toluene-d8 (S)	99	%	90-110	1		11/08/11 03:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-113	1		11/08/11 03:39	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		11/08/11 03:39	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 03:39		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**220**	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Total as CaCO3	**220**	mg/L	20.0	1		11/07/11 11:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1790**	mg/L	5.0	1		11/02/11 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-11 **Lab ID: 60109015005** Collected: 10/26/11 11:05 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.7**	mg/L	1.0	1		11/05/11 17:17	24959-67-9	
Chloride	**715**	mg/L	50.0	50		11/07/11 15:52	16887-00-6	
Sulfate	**90.9**	mg/L	20.0	20		11/05/11 17:34	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**4.9**	mg/L	0.10	1		10/28/11 16:52		H1

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-12 **Lab ID: 60109015006** Collected: 10/26/11 13:55 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**3370000**	ug/L	5000	50	11/02/11 17:00	11/09/11 10:00	7440-70-2	
Magnesium	**743000**	ug/L	250	5	11/02/11 17:00	11/07/11 13:07	7439-95-4	
Potassium	**54000**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:07	7440-09-7	
Sodium	**14800000**	ug/L	25000	50	11/02/11 17:00	11/09/11 10:00	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 13:27	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:27	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	69	%	42-112	1	11/01/11 00:00	11/09/11 13:27	4165-60-0	
2-Fluorobiphenyl (S)	70	%	44-115	1	11/01/11 00:00	11/09/11 13:27	321-60-8	
Terphenyl-d14 (S)	79	%	46-131	1	11/01/11 00:00	11/09/11 13:27	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 03:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 03:55	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 03:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 03:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	86-112	1		11/08/11 03:55	1868-53-7	
Toluene-d8 (S)	101	%	90-110	1		11/08/11 03:55	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-113	1		11/08/11 03:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	82-119	1		11/08/11 03:55	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 03:55		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**138**	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 11:00		
Alkalinity, Total as CaCO3	**138**	mg/L	20.0	1		11/07/11 11:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**55900**	mg/L	5.0	1		11/02/11 16:00		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-12 **Lab ID: 60109015006** Collected: 10/26/11 13:55 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	20.0	20		11/05/11 17:50	24959-67-9	
Chloride	**32200**	mg/L	2000	2000		11/07/11 16:25	16887-00-6	
Sulfate	**1020**	mg/L	100	100		11/08/11 12:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.0**	mg/L	0.10	1		10/28/11 16:53		H1

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-13 **Lab ID: 60109015007** Collected: 10/26/11 13:15 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**541000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:11	7440-70-2	
Magnesium	**99600**	ug/L	250	5	11/02/11 17:00	11/07/11 13:11	7439-95-4	
Potassium	**16900**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:11	7440-09-7	
Sodium	**81300**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:11	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 13:47	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 13:47	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	82	%	42-112	1	11/01/11 00:00	11/09/11 13:47	4165-60-0	
2-Fluorobiphenyl (S)	79	%	44-115	1	11/01/11 00:00	11/09/11 13:47	321-60-8	
Terphenyl-d14 (S)	96	%	46-131	1	11/01/11 00:00	11/09/11 13:47	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 04:12	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 04:12	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 04:12	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 04:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	86-112	1		11/08/11 04:12	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		11/08/11 04:12	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/08/11 04:12	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		11/08/11 04:12	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 04:12		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**765**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**765**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1090**	mg/L	5.0	1		11/02/11 16:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-13 **Lab ID: 60109015007** Collected: 10/26/11 13:15 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**1.3**	mg/L	1.0	1		11/05/11 18:57	24959-67-9	
Chloride	**233**	mg/L	20.0	20		11/05/11 19:13	16887-00-6	
Sulfate	**253**	mg/L	20.0	20		11/05/11 19:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**18.1**	mg/L	0.50	1		10/28/11 17:17		H3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-14 **Lab ID: 60109015008** Collected: 10/25/11 13:30 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**532000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:15	7440-70-2	
Magnesium	**159000**	ug/L	250	5	11/02/11 17:00	11/07/11 13:15	7439-95-4	
Potassium	**14400**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:15	7440-09-7	
Sodium	**58100**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:15	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	83-32-9	
Acenaphthylene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	208-96-8	
Anthracene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	207-08-9	
Chrysene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	53-70-3	
Fluoranthene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	206-44-0	
Fluorene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	193-39-5	
Naphthalene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	91-20-3	
Phenanthrene	ND	ug/L	0.53	1	10/31/11 00:00	11/10/11 10:13	85-01-8	
Pyrene	ND	ug/L	0.11	1	10/31/11 00:00	11/10/11 10:13	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	68	%	42-112	1	10/31/11 00:00	11/10/11 10:13	4165-60-0	
2-Fluorobiphenyl (S)	66	%	44-115	1	10/31/11 00:00	11/10/11 10:13	321-60-8	
Terphenyl-d14 (S)	72	%	46-131	1	10/31/11 00:00	11/10/11 10:13	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 13:08	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/07/11 16:04	100-41-4	
Toluene	**8.8**	ug/L	1.0	1		11/07/11 16:04	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/07/11 16:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	86-112	1		11/07/11 16:04	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		11/07/11 16:04	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/07/11 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		11/07/11 16:04	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/07/11 16:04		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**390**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**390**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2350**	mg/L	5.0	1		10/31/11 12:10		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-14 **Lab ID: 60109015008** Collected: 10/25/11 13:30 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**3.4**	mg/L	1.0	1		11/05/11 19:30	24959-67-9	
Chloride	**408**	mg/L	50.0	50		11/05/11 19:46	16887-00-6	
Sulfate	**848**	mg/L	50.0	50		11/05/11 19:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**20.0**	mg/L	0.50	1		10/28/11 17:18		H3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-15 **Lab ID: 60109015009** Collected: 10/26/11 12:40 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**221000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:18	7440-70-2	
Magnesium	**51000**	ug/L	250	5	11/02/11 17:00	11/07/11 13:18	7439-95-4	
Potassium	**7400**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:18	7440-09-7	
Sodium	**58200**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:18	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 14:08	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:08	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	70	%	42-112	1	11/01/11 00:00	11/09/11 14:08	4165-60-0	
2-Fluorobiphenyl (S)	69	%	44-115	1	11/01/11 00:00	11/09/11 14:08	321-60-8	
Terphenyl-d14 (S)	79	%	46-131	1	11/01/11 00:00	11/09/11 14:08	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 04:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 04:28	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 04:28	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 04:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	86-112	1		11/08/11 04:28	1868-53-7	
Toluene-d8 (S)	99	%	90-110	1		11/08/11 04:28	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		11/08/11 04:28	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		11/08/11 04:28	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 04:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**452**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**452**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**552**	mg/L	5.0	1		11/02/11 16:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-15 **Lab ID: 60109015009** Collected: 10/26/11 12:40 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**1.0**	mg/L	1.0	1		11/05/11 20:03	24959-67-9	
Chloride	**123**	mg/L	10.0	10		11/07/11 16:41	16887-00-6	
Sulfate	**56.4**	mg/L	10.0	10		11/07/11 16:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 16:56		H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-16 **Lab ID: 60109015010** Collected: 10/26/11 12:25 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**232000**	ug/L	100	1	11/02/11 17:00	11/09/11 09:54	7440-70-2	
Magnesium	**45600**	ug/L	250	5	11/02/11 17:00	11/07/11 13:22	7439-95-4	
Potassium	**3080**	ug/L	500	1	11/02/11 17:00	11/09/11 09:54	7440-09-7	
Sodium	**58100**	ug/L	500	1	11/02/11 17:00	11/09/11 09:54	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 14:29	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:29	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	73	%	42-112	1	11/01/11 00:00	11/09/11 14:29	4165-60-0	
2-Fluorobiphenyl (S)	71	%	44-115	1	11/01/11 00:00	11/09/11 14:29	321-60-8	
Terphenyl-d14 (S)	80	%	46-131	1	11/01/11 00:00	11/09/11 14:29	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**1.8**	ug/L	1.0	1		11/08/11 04:44	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 04:44	100-41-4	
Toluene	**1.1**	ug/L	1.0	1		11/08/11 04:44	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 04:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	86-112	1		11/08/11 04:44	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		11/08/11 04:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		11/08/11 04:44	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		11/08/11 04:44	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 04:44		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**444**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**444**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**830**	mg/L	5.0	1		11/02/11 16:00		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-16 **Lab ID: 60109015010** Collected: 10/26/11 12:25 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**1.3**	mg/L	1.0	1		11/07/11 16:58	24959-67-9	
Chloride	**230**	mg/L	20.0	20		11/07/11 17:14	16887-00-6	
Sulfate	**76.4**	mg/L	10.0	10		11/05/11 20:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 16:57		H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-17 **Lab ID: 60109015011** Collected: 10/26/11 12:10 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**326000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:25	7440-70-2	
Magnesium	**60300**	ug/L	250	5	11/02/11 17:00	11/07/11 13:25	7439-95-4	
Potassium	**7400**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:25	7440-09-7	
Sodium	**239000**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:25	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 14:49	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 14:49	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	75	%	42-112	1	11/01/11 00:00	11/09/11 14:49	4165-60-0	
2-Fluorobiphenyl (S)	73	%	44-115	1	11/01/11 00:00	11/09/11 14:49	321-60-8	
Terphenyl-d14 (S)	84	%	46-131	1	11/01/11 00:00	11/09/11 14:49	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 05:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 05:00	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 05:00	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 05:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	86-112	1		11/08/11 05:00	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		11/08/11 05:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-113	1		11/08/11 05:00	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		11/08/11 05:00	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 05:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**244**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**244**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1750**	mg/L	5.0	1		11/02/11 16:00		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-17 **Lab ID: 60109015011** Collected: 10/26/11 12:10 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**1.8**	mg/L	1.0	1		11/05/11 21:04	24959-67-9	
Chloride	**654**	mg/L	50.0	50		11/07/11 17:31	16887-00-6	
Sulfate	**274**	mg/L	20.0	20		11/05/11 21:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 16:58		H1

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-18 **Lab ID: 60109015012** Collected: 10/26/11 11:58 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**2850000**	ug/L	5000	50	11/02/11 17:00	11/09/11 10:02	7440-70-2	
Magnesium	**772000**	ug/L	250	5	11/02/11 17:00	11/07/11 13:29	7439-95-4	
Potassium	**51200**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:29	7440-09-7	
Sodium	**3450000**	ug/L	25000	50	11/02/11 17:00	11/09/11 10:02	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 07:53	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 07:53	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-112	1	11/01/11 00:00	11/09/11 07:53	4165-60-0	
2-Fluorobiphenyl (S)	74	%	44-115	1	11/01/11 00:00	11/09/11 07:53	321-60-8	
Terphenyl-d14 (S)	84	%	46-131	1	11/01/11 00:00	11/09/11 07:53	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 05:16	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 05:16	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 05:16	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 05:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	86-112	1		11/08/11 05:16	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		11/08/11 05:16	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/08/11 05:16	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	82-119	1		11/08/11 05:16	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 05:16		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**224**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**224**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**22700**	mg/L	5.0	1		11/02/11 16:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-18 **Lab ID: 60109015012** Collected: 10/26/11 11:58 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	20.0	20		11/07/11 18:20	24959-67-9	
Chloride	**11100**	mg/L	1000	1000		11/08/11 13:13	16887-00-6	
Sulfate	**762**	mg/L	50.0	50		11/08/11 12:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.7**	mg/L	0.10	1		10/28/11 16:59		H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-19 **Lab ID: 60109015013** Collected: 10/26/11 13:40 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**207000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:33	7440-70-2	
Magnesium	**41700**	ug/L	250	5	11/02/11 17:00	11/07/11 13:33	7439-95-4	
Potassium	**5460**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:33	7440-09-7	
Sodium	**56200**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:33	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 15:10	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:10	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	79	%	42-112	1	11/01/11 00:00	11/09/11 15:10	4165-60-0	
2-Fluorobiphenyl (S)	76	%	44-115	1	11/01/11 00:00	11/09/11 15:10	321-60-8	
Terphenyl-d14 (S)	84	%	46-131	1	11/01/11 00:00	11/09/11 15:10	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 05:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 05:33	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 05:33	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 05:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	86-112	1		11/08/11 05:33	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		11/08/11 05:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/08/11 05:33	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		11/08/11 05:33	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 05:33		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**436**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**436**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**523**	mg/L	5.0	1		11/02/11 16:01		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-19 **Lab ID: 60109015013** Collected: 10/26/11 13:40 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	1.0	1		11/07/11 18:53	24959-67-9	
Chloride	**122**	mg/L	10.0	10		11/07/11 19:10	16887-00-6	
Sulfate	**32.9**	mg/L	10.0	10		11/07/11 19:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**2.2**	mg/L	0.10	1		10/28/11 16:59		H1

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-20 **Lab ID: 60109015014** Collected: 10/26/11 11:35 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**3080000**	ug/L	5000	50	11/02/11 17:00	11/09/11 10:05	7440-70-2	
Magnesium	**640000**	ug/L	250	5	11/02/11 17:00	11/07/11 13:36	7439-95-4	
Potassium	**41900**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:36	7440-09-7	
Sodium	**1050000**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:36	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 15:30	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 15:30	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-112	1	11/01/11 00:00	11/09/11 15:30	4165-60-0	
2-Fluorobiphenyl (S)	76	%	44-115	1	11/01/11 00:00	11/09/11 15:30	321-60-8	
Terphenyl-d14 (S)	87	%	46-131	1	11/01/11 00:00	11/09/11 15:30	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 05:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 05:49	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 05:49	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 05:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	86-112	1		11/08/11 05:49	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		11/08/11 05:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		11/08/11 05:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		11/08/11 05:49	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 05:49		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**4790**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**4790**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**13100**	mg/L	5.0	1		11/02/11 16:02		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: MW-20 **Lab ID: 60109015014** Collected: 10/26/11 11:35 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	20.0	20		11/07/11 19:26	24959-67-9	
Chloride	**5950**	mg/L	500	500		11/05/11 23:20	16887-00-6	
Sulfate	**551**	mg/L	50.0	50		11/08/11 13:30	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.9**	mg/L	0.10	1		10/28/11 17:02		H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: WW **Lab ID: 60109015015** Collected: 10/25/11 12:36 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**142000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:54	7440-70-2	
Magnesium	**58600**	ug/L	250	5	11/02/11 17:00	11/07/11 13:54	7439-95-4	
Potassium	**4120**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:54	7440-09-7	
Sodium	**149000**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:54	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	207-08-9	
Chrysene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	206-44-0	
Fluorene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	193-39-5	
Naphthalene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	10/31/11 00:00	11/10/11 10:34	85-01-8	
Pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:34	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-112	1	10/31/11 00:00	11/10/11 10:34	4165-60-0	
2-Fluorobiphenyl (S)	71	%	44-115	1	10/31/11 00:00	11/10/11 10:34	321-60-8	
Terphenyl-d14 (S)	79	%	46-131	1	10/31/11 00:00	11/10/11 10:34	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 13:24	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/07/11 16:20	100-41-4	
Toluene	**4.6**	ug/L	1.0	1		11/07/11 16:20	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/07/11 16:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	86-112	1		11/07/11 16:20	1868-53-7	
Toluene-d8 (S)	101	%	90-110	1		11/07/11 16:20	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		11/07/11 16:20	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		11/07/11 16:20	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/07/11 16:20		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**160**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**160**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1280**	mg/L	5.0	1		10/31/11 12:10		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: WW **Lab ID: 60109015015** Collected: 10/25/11 12:36 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.7**	mg/L	1.0	1		11/05/11 23:37	24959-67-9	
Chloride	**509**	mg/L	50.0	50		11/07/11 19:43	16887-00-6	
Sulfate	**94.9**	mg/L	20.0	20		11/05/11 23:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 17:03		H3

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: EW-1 **Lab ID: 60109015016** Collected: 10/25/11 12:55 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**2400000**	ug/L	500	5	11/02/11 17:00	11/07/11 13:58	7440-70-2	
Magnesium	**624000**	ug/L	250	5	11/02/11 17:00	11/07/11 13:58	7439-95-4	
Potassium	**42700**	ug/L	2500	5	11/02/11 17:00	11/07/11 13:58	7440-09-7	
Sodium	**11300000**	ug/L	50000	100	11/02/11 17:00	11/09/11 10:13	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	207-08-9	
Chrysene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	206-44-0	
Fluorene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	193-39-5	
Naphthalene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	10/31/11 00:00	11/10/11 10:55	85-01-8	
Pyrene	ND	ug/L	0.10	1	10/31/11 00:00	11/10/11 10:55	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	63	%	42-112	1	10/31/11 00:00	11/10/11 10:55	4165-60-0	
2-Fluorobiphenyl (S)	61	%	44-115	1	10/31/11 00:00	11/10/11 10:55	321-60-8	
Terphenyl-d14 (S)	69	%	46-131	1	10/31/11 00:00	11/10/11 10:55	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 13:40	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/07/11 16:36	100-41-4	
Toluene	**3.0**	ug/L	1.0	1		11/07/11 16:36	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/07/11 16:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	86-112	1		11/07/11 16:36	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		11/07/11 16:36	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-113	1		11/07/11 16:36	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		11/07/11 16:36	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/07/11 16:36		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**116**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**66300**	mg/L	5.0	1		10/31/11 12:10		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: EW-1 **Lab ID: 60109015016** Collected: 10/25/11 12:55 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**25.6**	mg/L	20.0	20		11/06/11 00:10	24959-67-9	
Chloride	**35000**	mg/L	2000	2000		11/07/11 20:16	16887-00-6	
Sulfate	**923**	mg/L	50.0	50		11/07/11 19:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.9**	mg/L	0.10	1		10/28/11 17:04		H3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: DUP-1 **Lab ID: 60109015017** Collected: 10/26/11 00:00 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**352000**	ug/L	500	5	11/02/11 17:00	11/07/11 14:02	7440-70-2	
Magnesium	**93200**	ug/L	250	5	11/02/11 17:00	11/07/11 14:02	7439-95-4	
Potassium	**6350**	ug/L	2500	5	11/02/11 17:00	11/07/11 14:02	7440-09-7	
Sodium	**108000**	ug/L	2500	5	11/02/11 17:00	11/07/11 14:02	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	193-39-5	
Naphthalene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/01/11 00:00	11/09/11 16:53	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/01/11 00:00	11/09/11 16:53	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	83	%	42-112	1	11/01/11 00:00	11/09/11 16:53	4165-60-0	
2-Fluorobiphenyl (S)	78	%	44-115	1	11/01/11 00:00	11/09/11 16:53	321-60-8	
Terphenyl-d14 (S)	89	%	46-131	1	11/01/11 00:00	11/09/11 16:53	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 06:05	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 06:05	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 06:05	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 06:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	86-112	1		11/08/11 06:05	1868-53-7	
Toluene-d8 (S)	101	%	90-110	1		11/08/11 06:05	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/08/11 06:05	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		11/08/11 06:05	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 06:05		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**208**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**208**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1910**	mg/L	5.0	1		11/02/11 16:02		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: DUP-1 **Lab ID: 60109015017** Collected: 10/26/11 00:00 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.5**	mg/L	1.0	1		11/06/11 01:16	24959-67-9	
Chloride	**659**	mg/L	50.0	50		11/07/11 20:32	16887-00-6	
Sulfate	**84.6**	mg/L	20.0	20		11/06/11 01:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**6.1**	mg/L	0.20	1		10/28/11 17:19		H1

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: DUP-2 **Lab ID: 60109015018** Collected: 10/26/11 00:00 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**195000**	ug/L	500	5	11/02/11 17:00	11/07/11 14:05	7440-70-2	
Magnesium	**55200**	ug/L	250	5	11/02/11 17:00	11/07/11 14:05	7439-95-4	
Potassium	**7830**	ug/L	2500	5	11/02/11 17:00	11/07/11 14:05	7440-09-7	
Sodium	**82800**	ug/L	2500	5	11/02/11 17:00	11/07/11 14:05	7440-23-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	**0.20**	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	83-32-9	
Acenaphthylene	**0.12**	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	206-44-0	
Fluorene	**0.63**	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	193-39-5	
Naphthalene	**4.4**	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/02/11 00:00	11/10/11 07:14	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/02/11 00:00	11/10/11 07:14	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	79	%	42-112	1	11/02/11 00:00	11/10/11 07:14	4165-60-0	
2-Fluorobiphenyl (S)	67	%	44-115	1	11/02/11 00:00	11/10/11 07:14	321-60-8	
Terphenyl-d14 (S)	39	%	46-131	1	11/02/11 00:00	11/10/11 07:14	1718-51-0	S0
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**43.8**	ug/L	1.0	1		11/09/11 15:14	71-43-2	
Ethylbenzene	**61.9**	ug/L	1.0	1		11/09/11 15:14	100-41-4	
Toluene	ND	ug/L	1.0	1		11/09/11 15:14	108-88-3	
Xylene (Total)	**17.5**	ug/L	3.0	1		11/09/11 15:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	86-112	1		11/09/11 15:14	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		11/09/11 15:14	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-113	1		11/09/11 15:14	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		11/09/11 15:14	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/09/11 15:14		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**192**	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		11/07/11 15:00		
Alkalinity, Total as CaCO3	**192**	mg/L	20.0	1		11/07/11 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1380**	mg/L	5.0	1		11/02/11 16:02		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: DUP-2 **Lab ID: 60109015018** Collected: 10/26/11 00:00 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.4**	mg/L	1.0	1		11/06/11 01:49	24959-67-9	
Chloride	**522**	mg/L	50.0	50		11/07/11 20:49	16887-00-6	
Sulfate	ND	mg/L	1.0	1		11/06/11 01:49	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/28/11 17:06		H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Sample: TRIP **Lab ID: 60109015019** Collected: 10/26/11 00:00 Received: 10/28/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/08/11 14:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/08/11 14:13	100-41-4	
Toluene	ND	ug/L	1.0	1		11/08/11 14:13	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/08/11 14:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	86-112	1		11/08/11 14:13	1868-53-7	
Toluene-d8 (S)	101	%	90-110	1		11/08/11 14:13	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		11/08/11 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		11/08/11 14:13	17060-07-0	
Preservation pH	**1.0**		1.0	1		11/08/11 14:13		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MPRP/15907 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015007, 60109015008, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

METHOD BLANK: 903329 Matrix: Water
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015007, 60109015008, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	ND	100	11/07/11 12:36	
Magnesium	ug/L	ND	50.0	11/07/11 12:36	
Potassium	ug/L	ND	500	11/07/11 12:36	
Sodium	ug/L	ND	500	11/07/11 12:36	

LABORATORY CONTROL SAMPLE: 903330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	10400	104	80-120	
Magnesium	ug/L	10000	9930	99	80-120	
Potassium	ug/L	10000	9970	100	80-120	
Sodium	ug/L	10000	10100	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 903331 903332

Parameter	Units	60109015014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	3080000	10000	10000	3280000	3440000	2015	3630	75-125	5	20	1e
Magnesium	ug/L	640000	10000	10000	660000	667000	200	265	75-125	1	20	1e
Potassium	ug/L	41900	10000	10000	61800	65700	199	238	75-125	6	20	1e
Sodium	ug/L	1050000	10000	10000	1040000	1060000	-55	125	75-125	2	20	1e

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MSV/41477 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60109015008, 60109015015, 60109015016

METHOD BLANK: 906339 Matrix: Water
Associated Lab Samples: 60109015008, 60109015015, 60109015016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	11/07/11 15:16	
Toluene	ug/L	ND	1.0	11/07/11 15:16	
Xylene (Total)	ug/L	ND	3.0	11/07/11 15:16	
1,2-Dichloroethane-d4 (S)	%	98	82-119	11/07/11 15:16	
4-Bromofluorobenzene (S)	%	100	87-113	11/07/11 15:16	
Dibromofluoromethane (S)	%	94	86-112	11/07/11 15:16	
Toluene-d8 (S)	%	101	90-110	11/07/11 15:16	

LABORATORY CONTROL SAMPLE: 906340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	19.1	95	79-121	
Toluene	ug/L	20	20.1	100	80-120	
Xylene (Total)	ug/L	60	60.8	101	79-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			104	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			101	90-110	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MSV/41478
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60109015003

METHOD BLANK: 906341 Matrix: Water
Associated Lab Samples: 60109015003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/07/11 20:05	
Ethylbenzene	ug/L	ND	1.0	11/07/11 20:05	
Toluene	ug/L	ND	1.0	11/07/11 20:05	
Xylene (Total)	ug/L	ND	3.0	11/07/11 20:05	
1,2-Dichloroethane-d4 (S)	%	97	82-119	11/07/11 20:05	
4-Bromofluorobenzene (S)	%	100	87-113	11/07/11 20:05	
Dibromofluoromethane (S)	%	95	86-112	11/07/11 20:05	
Toluene-d8 (S)	%	99	90-110	11/07/11 20:05	

LABORATORY CONTROL SAMPLE: 906342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.5	108	82-117	
Ethylbenzene	ug/L	20	19.5	98	79-121	
Toluene	ug/L	20	20.8	104	80-120	
Xylene (Total)	ug/L	60	61.1	102	79-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			99	86-112	
Toluene-d8 (S)	%			100	90-110	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MSV/41489 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60109015004, 60109015005, 60109015006, 60109015007, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015017

METHOD BLANK: 906675 Matrix: Water
Associated Lab Samples: 60109015004, 60109015005, 60109015006, 60109015007, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/08/11 02:35	
Ethylbenzene	ug/L	ND	1.0	11/08/11 02:35	
Toluene	ug/L	ND	1.0	11/08/11 02:35	
Xylene (Total)	ug/L	ND	3.0	11/08/11 02:35	
1,2-Dichloroethane-d4 (S)	%	98	82-119	11/08/11 02:35	
4-Bromofluorobenzene (S)	%	100	87-113	11/08/11 02:35	
Dibromofluoromethane (S)	%	95	86-112	11/08/11 02:35	
Toluene-d8 (S)	%	101	90-110	11/08/11 02:35	

LABORATORY CONTROL SAMPLE: 906676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.5	107	82-117	
Ethylbenzene	ug/L	20	20.1	100	79-121	
Toluene	ug/L	20	20.9	105	80-120	
Xylene (Total)	ug/L	60	62.8	105	79-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			100	90-110	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MSV/41503 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60109015001, 60109015008, 60109015015, 60109015016, 60109015019

METHOD BLANK: 906951 Matrix: Water
Associated Lab Samples: 60109015001, 60109015008, 60109015015, 60109015016, 60109015019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/08/11 10:18	
Ethylbenzene	ug/L	ND	1.0	11/08/11 10:18	
Toluene	ug/L	ND	1.0	11/08/11 10:18	
Xylene (Total)	ug/L	ND	3.0	11/08/11 10:18	
1,2-Dichloroethane-d4 (S)	%	100	82-119	11/08/11 10:18	
4-Bromofluorobenzene (S)	%	101	87-113	11/08/11 10:18	
Dibromofluoromethane (S)	%	95	86-112	11/08/11 10:18	
Toluene-d8 (S)	%	103	90-110	11/08/11 10:18	

LABORATORY CONTROL SAMPLE: 906952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.0	105	82-117	
Ethylbenzene	ug/L	20	19.8	99	79-121	
Toluene	ug/L	20	20.2	101	80-120	
Xylene (Total)	ug/L	60	62.3	104	79-120	
1,2-Dichloroethane-d4 (S)	%			98	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			101	90-110	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MSV/41525
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60109015003

METHOD BLANK: 907214
Matrix: Water
Associated Lab Samples: 60109015003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/09/11 12:10	
Ethylbenzene	ug/L	ND	1.0	11/09/11 12:10	
Toluene	ug/L	ND	1.0	11/09/11 12:10	
1,2-Dichloroethane-d4 (S)	%	94	82-119	11/09/11 12:10	
4-Bromofluorobenzene (S)	%	100	87-113	11/09/11 12:10	
Dibromofluoromethane (S)	%	100	86-112	11/09/11 12:10	
Toluene-d8 (S)	%	100	90-110	11/09/11 12:10	

LABORATORY CONTROL SAMPLE: 907215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.7	109	82-117	
Ethylbenzene	ug/L	20	22.2	111	79-121	
Toluene	ug/L	20	20.8	104	80-120	
1,2-Dichloroethane-d4 (S)	%			97	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			101	90-110	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MSV/41542 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60109015002

METHOD BLANK: 907308 Matrix: Water
Associated Lab Samples: 60109015002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/09/11 16:21	
Ethylbenzene	ug/L	ND	1.0	11/09/11 16:21	
Toluene	ug/L	ND	1.0	11/09/11 16:21	
Xylene (Total)	ug/L	ND	3.0	11/09/11 16:21	
1,2-Dichloroethane-d4 (S)	%	104	82-119	11/09/11 16:21	
4-Bromofluorobenzene (S)	%	102	87-113	11/09/11 16:21	
Dibromofluoromethane (S)	%	102	86-112	11/09/11 16:21	
Toluene-d8 (S)	%	102	90-110	11/09/11 16:21	

LABORATORY CONTROL SAMPLE: 907309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.5	97	82-117	
Ethylbenzene	ug/L	20	19.4	97	79-121	
Toluene	ug/L	20	18.3	91	80-120	
Xylene (Total)	ug/L	60	55.9	93	79-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 907310 907311

Parameter	Units	60109321001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	1.6	20	20	18.9	19.8	86	91	58-139	5	21	
Ethylbenzene	ug/L	0.60J	20	20	18.8	19.6	91	95	56-138	4	19	
Toluene	ug/L	0.30J	20	20	18.2	18.8	90	92	59-140	3	19	
Xylene (Total)	ug/L	ND	60	60	53.5	56.4	89	94	52-146	5	19	
1,2-Dichloroethane-d4 (S)	%						103	103	82-119			
4-Bromofluorobenzene (S)	%						101	101	87-113			
Dibromofluoromethane (S)	%						103	103	86-112			
Toluene-d8 (S)	%						101	100	90-110			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: MSV/41561
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60109015018

METHOD BLANK: 907657
Matrix: Water
Associated Lab Samples: 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/09/11 12:10	
Ethylbenzene	ug/L	ND	1.0	11/09/11 12:10	
Toluene	ug/L	ND	1.0	11/09/11 12:10	
Xylene (Total)	ug/L	ND	3.0	11/09/11 12:10	
1,2-Dichloroethane-d4 (S)	%	94	82-119	11/09/11 12:10	
4-Bromofluorobenzene (S)	%	100	87-113	11/09/11 12:10	
Dibromofluoromethane (S)	%	100	86-112	11/09/11 12:10	
Toluene-d8 (S)	%	100	90-110	11/09/11 12:10	

LABORATORY CONTROL SAMPLE: 907658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.7	109	82-117	
Ethylbenzene	ug/L	20	22.2	111	79-121	
Toluene	ug/L	20	20.8	104	80-120	
Xylene (Total)	ug/L	60	64.3	107	79-120	
1,2-Dichloroethane-d4 (S)	%			97	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			101	90-110	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: OEXT/30908 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60109015001, 60109015003, 60109015008, 60109015015, 60109015016

METHOD BLANK: 901989 Matrix: Water
Associated Lab Samples: 60109015001, 60109015003, 60109015008, 60109015015, 60109015016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	11/08/11 16:59	
Acenaphthylene	ug/L	ND	0.10	11/08/11 16:59	
Anthracene	ug/L	ND	0.10	11/08/11 16:59	
Benzo(a)anthracene	ug/L	ND	0.10	11/08/11 16:59	
Benzo(a)pyrene	ug/L	ND	0.10	11/08/11 16:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/08/11 16:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/08/11 16:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/08/11 16:59	
Chrysene	ug/L	ND	0.10	11/08/11 16:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/08/11 16:59	
Fluoranthene	ug/L	ND	0.10	11/08/11 16:59	
Fluorene	ug/L	ND	0.10	11/08/11 16:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/08/11 16:59	
Naphthalene	ug/L	ND	0.10	11/08/11 16:59	
Phenanthrene	ug/L	ND	0.50	11/08/11 16:59	
Pyrene	ug/L	ND	0.10	11/08/11 16:59	
2-Fluorobiphenyl (S)	%	75	44-115	11/08/11 16:59	
Nitrobenzene-d5 (S)	%	81	42-112	11/08/11 16:59	
Terphenyl-d14 (S)	%	82	46-131	11/08/11 16:59	

LABORATORY CONTROL SAMPLE: 901990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.74	74	48-108	
Acenaphthylene	ug/L	1	0.76	76	42-111	
Anthracene	ug/L	1	0.82	82	48-105	
Benzo(a)anthracene	ug/L	1	0.80	80	53-118	
Benzo(a)pyrene	ug/L	1	0.79	79	48-115	
Benzo(b)fluoranthene	ug/L	1	0.83	83	42-132	
Benzo(g,h,i)perylene	ug/L	1	0.80	80	38-116	
Benzo(k)fluoranthene	ug/L	1	0.85	85	48-117	
Chrysene	ug/L	1	0.81	81	51-115	
Dibenz(a,h)anthracene	ug/L	1	0.79	79	40-116	
Fluoranthene	ug/L	1	0.84	84	37-134	
Fluorene	ug/L	1	0.77	77	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.80	80	37-118	
Naphthalene	ug/L	1	0.78	78	41-112	
Phenanthrene	ug/L	1	0.81	81	52-116	
Pyrene	ug/L	1	0.83	83	44-134	
2-Fluorobiphenyl (S)	%			73	44-115	
Nitrobenzene-d5 (S)	%			80	42-112	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

LABORATORY CONTROL SAMPLE: 901990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			80	46-131	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: OEXT/30935 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60109015002, 60109015004, 60109015005, 60109015006, 60109015007, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015017

METHOD BLANK: 902452 Matrix: Water
Associated Lab Samples: 60109015002, 60109015004, 60109015005, 60109015006, 60109015007, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	11/08/11 22:31	
Acenaphthylene	ug/L	ND	0.10	11/08/11 22:31	
Anthracene	ug/L	ND	0.10	11/08/11 22:31	
Benzo(a)anthracene	ug/L	ND	0.10	11/08/11 22:31	
Benzo(a)pyrene	ug/L	ND	0.10	11/08/11 22:31	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/08/11 22:31	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/08/11 22:31	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/08/11 22:31	
Chrysene	ug/L	ND	0.10	11/08/11 22:31	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/08/11 22:31	
Fluoranthene	ug/L	ND	0.10	11/08/11 22:31	
Fluorene	ug/L	ND	0.10	11/08/11 22:31	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/08/11 22:31	
Naphthalene	ug/L	ND	0.10	11/08/11 22:31	
Phenanthrene	ug/L	ND	0.50	11/08/11 22:31	
Pyrene	ug/L	ND	0.10	11/08/11 22:31	
2-Fluorobiphenyl (S)	%	87	44-115	11/08/11 22:31	
Nitrobenzene-d5 (S)	%	91	42-112	11/08/11 22:31	
Terphenyl-d14 (S)	%	99	46-131	11/08/11 22:31	

LABORATORY CONTROL SAMPLE: 902453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.73	73	48-108	
Acenaphthylene	ug/L	1	0.77	77	42-111	
Anthracene	ug/L	1	0.82	82	48-105	
Benzo(a)anthracene	ug/L	1	0.81	81	53-118	
Benzo(a)pyrene	ug/L	1	0.79	79	48-115	
Benzo(b)fluoranthene	ug/L	1	0.83	83	42-132	
Benzo(g,h,i)perylene	ug/L	1	0.80	80	38-116	
Benzo(k)fluoranthene	ug/L	1	0.86	86	48-117	
Chrysene	ug/L	1	0.84	84	51-115	
Dibenz(a,h)anthracene	ug/L	1	0.77	77	40-116	
Fluoranthene	ug/L	1	0.85	85	37-134	
Fluorene	ug/L	1	0.77	77	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.80	80	37-118	
Naphthalene	ug/L	1	0.72	72	41-112	
Phenanthrene	ug/L	1	0.80	80	52-116	
Pyrene	ug/L	1	0.82	82	44-134	
2-Fluorobiphenyl (S)	%			73	44-115	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

LABORATORY CONTROL SAMPLE: 902453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrobenzene-d5 (S)	%			74	42-112	
Terphenyl-d14 (S)	%			78	46-131	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: OEXT/30950
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60109015018

METHOD BLANK: 903193
Matrix: Water
Associated Lab Samples: 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	11/08/11 14:33	
Acenaphthylene	ug/L	ND	0.10	11/08/11 14:33	
Anthracene	ug/L	ND	0.10	11/08/11 14:33	
Benzo(a)anthracene	ug/L	ND	0.10	11/08/11 14:33	
Benzo(a)pyrene	ug/L	ND	0.10	11/08/11 14:33	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/08/11 14:33	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/08/11 14:33	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/08/11 14:33	
Chrysene	ug/L	ND	0.10	11/08/11 14:33	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/08/11 14:33	
Fluoranthene	ug/L	ND	0.10	11/08/11 14:33	
Fluorene	ug/L	ND	0.10	11/08/11 14:33	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/08/11 14:33	
Naphthalene	ug/L	ND	0.10	11/08/11 14:33	
Phenanthrene	ug/L	ND	0.50	11/08/11 14:33	
Pyrene	ug/L	ND	0.10	11/08/11 14:33	
2-Fluorobiphenyl (S)	%	67	44-115	11/08/11 14:33	
Nitrobenzene-d5 (S)	%	70	42-112	11/08/11 14:33	
Terphenyl-d14 (S)	%	79	46-131	11/08/11 14:33	

LABORATORY CONTROL SAMPLE: 903194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.76	76	48-108	
Acenaphthylene	ug/L	1	0.66	66	42-111	
Anthracene	ug/L	1	0.79	79	48-105	
Benzo(a)anthracene	ug/L	1	0.69	69	53-118	
Benzo(a)pyrene	ug/L	1	0.80	80	48-115	
Benzo(b)fluoranthene	ug/L	1	0.80	80	42-132	
Benzo(g,h,i)perylene	ug/L	1	0.78	78	38-116	
Benzo(k)fluoranthene	ug/L	1	0.81	81	48-117	
Chrysene	ug/L	1	0.85	85	51-115	
Dibenz(a,h)anthracene	ug/L	1	0.78	78	40-116	
Fluoranthene	ug/L	1	0.74	74	37-134	
Fluorene	ug/L	1	0.79	79	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.77	77	37-118	
Naphthalene	ug/L	1	0.75	75	41-112	
Phenanthrene	ug/L	1	0.84	84	52-116	
Pyrene	ug/L	1	0.78	78	44-134	
2-Fluorobiphenyl (S)	%			65	44-115	
Nitrobenzene-d5 (S)	%			70	42-112	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

LABORATORY CONTROL SAMPLE: 903194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			80	46-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 903195 903196

Parameter	Units	60109085018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	21.7	1	1	21.4	21.4	-30	-26	27-111	0	29	M1
Acenaphthylene	ug/L	0.21	1	1	0.88	0.89	67	68	25-111	1	22	
Anthracene	ug/L	0.50	1	1	1.2	1.2	71	70	15-135	1	35	
Benzo(a)anthracene	ug/L	ND	1	1	0.71	0.74	68	70	41-113	3	24	
Benzo(a)pyrene	ug/L	ND	1	1	0.78	0.82	78	81	35-111	5	24	
Benzo(b)fluoranthene	ug/L	ND	1	1	0.76	0.77	75	76	36-113	1	34	
Benzo(g,h,i)perylene	ug/L	ND	1	1	0.62	0.63	61	62	30-105	1	32	
Benzo(k)fluoranthene	ug/L	ND	1	1	0.84	0.87	84	86	34-116	3	33	
Chrysene	ug/L	ND	1	1	0.83	0.85	80	82	38-109	3	28	
Dibenz(a,h)anthracene	ug/L	ND	1	1	0.65	0.67	65	67	25-114	2	35	
Fluoranthene	ug/L	1.7	1	1	2.3	2.3	57	54	35-123	1	27	
Fluorene	ug/L	9.7	1	1	9.0	9.1	-64	-62	30-111	0	19	M1
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1	0.66	0.68	66	68	30-105	3	31	
Naphthalene	ug/L	8.9	1	1	8.0	7.8	-87	-104	21-108	2	32	M1
Phenanthrene	ug/L	1.9	1	1	2.2	2.2	34	31	34-111	1	30	M1
Pyrene	ug/L	0.96	1	1	1.6	1.6	67	66	30-129	0	24	
2-Fluorobiphenyl (S)	%						66	68	44-115			
Nitrobenzene-d5 (S)	%						76	79	42-112			
Terphenyl-d14 (S)	%						78	80	46-131			

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: WET/31912 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015007, 60109015008, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

METHOD BLANK: 906541 Matrix: Water
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015007, 60109015008, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	11/07/11 11:00	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	11/07/11 11:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	11/07/11 11:00	

LABORATORY CONTROL SAMPLE: 906542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	508	102	90-110	

SAMPLE DUPLICATE: 906543

Parameter	Units	60109209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	140	138	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	140	138	1	9	

SAMPLE DUPLICATE: 906544

Parameter	Units	60109015005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	220	220	0	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	220	220	0	9	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: WET/31770 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60109015001, 60109015003, 60109015008, 60109015015, 60109015016

METHOD BLANK: 901986 Matrix: Water
Associated Lab Samples: 60109015001, 60109015003, 60109015008, 60109015015, 60109015016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/31/11 12:04	

SAMPLE DUPLICATE: 901987

Parameter	Units	60108902007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	87.0	96.0	10	17	

SAMPLE DUPLICATE: 901988

Parameter	Units	60109008006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	378	386	2	17	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: WET/31825 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60109015002, 60109015004, 60109015005, 60109015006, 60109015007, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015017, 60109015018

METHOD BLANK: 903573 Matrix: Water
Associated Lab Samples: 60109015002, 60109015004, 60109015005, 60109015006, 60109015007, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015017, 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/02/11 15:58	

SAMPLE DUPLICATE: 903575

Parameter	Units	60109015012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	22700	22600	1	17	

SAMPLE DUPLICATE: 904402

Parameter	Units	60109015002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1300	1270	2	17	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: WETA/18191 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015007, 60109015008, 60109015009, 60109015010

METHOD BLANK: 905749 Matrix: Water
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015007, 60109015008, 60109015009, 60109015010, 60109015011, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	11/05/11 12:20	
Chloride	mg/L	ND	1.0	11/05/11 12:20	
Sulfate	mg/L	ND	1.0	11/05/11 12:20	

METHOD BLANK: 907205 Matrix: Water
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	11/07/11 12:50	
Chloride	mg/L	ND	1.0	11/07/11 12:50	
Sulfate	mg/L	ND	1.0	11/07/11 12:50	

METHOD BLANK: 907877 Matrix: Water
Associated Lab Samples: 60109015006, 60109015012, 60109015014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	11/08/11 12:07	
Sulfate	mg/L	ND	1.0	11/08/11 12:07	

LABORATORY CONTROL SAMPLE: 905750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.7	94	90-110	
Chloride	mg/L	5	4.8	96	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

LABORATORY CONTROL SAMPLE: 907206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.8	97	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

LABORATORY CONTROL SAMPLE: 907878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE SAMPLE: 905751

Parameter	Units	60109015001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	3.6	5	8.3	93	75-119	
Chloride	mg/L	528	250	782	102	64-118	
Sulfate	mg/L	5.4	5	9.6	84	61-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 905752 905753

Parameter	Units	60109015002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	2.4	5	5	7.3	7.3	98	99	75-119	0	10	
Chloride	mg/L	515	250	250	772	771	103	103	64-118	0	12	
Sulfate	mg/L	ND	5	5	5.3	5.5	96	101	61-119	4	10	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

QC Batch: WETA/18098 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015007, 60109015008, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

METHOD BLANK: 900705 Matrix: Water
Associated Lab Samples: 60109015001, 60109015002, 60109015003, 60109015004, 60109015005, 60109015006, 60109015007, 60109015008, 60109015009, 60109015010, 60109015011, 60109015012, 60109015013, 60109015014, 60109015015, 60109015016, 60109015017, 60109015018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/28/11 16:43	

LABORATORY CONTROL SAMPLE: 900706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	98	90-110	

MATRIX SPIKE SAMPLE: 900707

Parameter	Units	60109015001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.5	93	90-110	

MATRIX SPIKE SAMPLE: 900708

Parameter	Units	60109015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.5	95	90-110	

SAMPLE DUPLICATE: 900709

Parameter	Units	60109015003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: OEXT/30908
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/30935
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/41478
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/41489
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/41503
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/41525
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/41561
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Sample result is greater than four times the spike.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received outside EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60109015001	MW-2	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015002	MW-4	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015003	MW-6	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015004	MW-10	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015005	MW-11	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015006	MW-12	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015007	MW-13	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015008	MW-14	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015009	MW-15	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015010	MW-16	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015011	MW-17	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015012	MW-18	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015013	MW-19	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015014	MW-20	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015015	WW	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015016	EW-1	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015017	DUP-1	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015018	DUP-2	EPA 3010	MPRP/15907	EPA 6010	ICP/13760
60109015001	MW-2	EPA 3510	OEXT/30908	EPA 8270 by SIM	MSSV/9678
60109015002	MW-4	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015003	MW-6	EPA 3510	OEXT/30908	EPA 8270 by SIM	MSSV/9678
60109015004	MW-10	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015005	MW-11	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015006	MW-12	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015007	MW-13	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015008	MW-14	EPA 3510	OEXT/30908	EPA 8270 by SIM	MSSV/9678
60109015009	MW-15	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015010	MW-16	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015011	MW-17	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015012	MW-18	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015013	MW-19	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015014	MW-20	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015015	WW	EPA 3510	OEXT/30908	EPA 8270 by SIM	MSSV/9678
60109015016	EW-1	EPA 3510	OEXT/30908	EPA 8270 by SIM	MSSV/9678
60109015017	DUP-1	EPA 3510	OEXT/30935	EPA 8270 by SIM	MSSV/9642
60109015018	DUP-2	EPA 3510	OEXT/30950	EPA 8270 by SIM	MSSV/9666
60109015001	MW-2	EPA 8260	MSV/41503		
60109015002	MW-4	EPA 8260	MSV/41542		
60109015003	MW-6	EPA 8260	MSV/41478		
60109015003	MW-6	EPA 8260	MSV/41525		
60109015004	MW-10	EPA 8260	MSV/41489		
60109015005	MW-11	EPA 8260	MSV/41489		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60109015006	MW-12	EPA 8260	MSV/41489		
60109015007	MW-13	EPA 8260	MSV/41489		
60109015008	MW-14	EPA 8260	MSV/41477		
60109015008	MW-14	EPA 8260	MSV/41503		
60109015009	MW-15	EPA 8260	MSV/41489		
60109015010	MW-16	EPA 8260	MSV/41489		
60109015011	MW-17	EPA 8260	MSV/41489		
60109015012	MW-18	EPA 8260	MSV/41489		
60109015013	MW-19	EPA 8260	MSV/41489		
60109015014	MW-20	EPA 8260	MSV/41489		
60109015015	WW	EPA 8260	MSV/41477		
60109015015	WW	EPA 8260	MSV/41503		
60109015016	EW-1	EPA 8260	MSV/41477		
60109015016	EW-1	EPA 8260	MSV/41503		
60109015017	DUP-1	EPA 8260	MSV/41489		
60109015018	DUP-2	EPA 8260	MSV/41561		
60109015019	TRIP	EPA 8260	MSV/41503		
60109015001	MW-2	SM 2320B	WET/31912		
60109015002	MW-4	SM 2320B	WET/31912		
60109015003	MW-6	SM 2320B	WET/31912		
60109015004	MW-10	SM 2320B	WET/31912		
60109015005	MW-11	SM 2320B	WET/31912		
60109015006	MW-12	SM 2320B	WET/31912		
60109015007	MW-13	SM 2320B	WET/31912		
60109015008	MW-14	SM 2320B	WET/31912		
60109015009	MW-15	SM 2320B	WET/31912		
60109015010	MW-16	SM 2320B	WET/31912		
60109015011	MW-17	SM 2320B	WET/31912		
60109015012	MW-18	SM 2320B	WET/31912		
60109015013	MW-19	SM 2320B	WET/31912		
60109015014	MW-20	SM 2320B	WET/31912		
60109015015	WW	SM 2320B	WET/31912		
60109015016	EW-1	SM 2320B	WET/31912		
60109015017	DUP-1	SM 2320B	WET/31912		
60109015018	DUP-2	SM 2320B	WET/31912		
60109015001	MW-2	SM 2540C	WET/31770		
60109015002	MW-4	SM 2540C	WET/31825		
60109015003	MW-6	SM 2540C	WET/31770		
60109015004	MW-10	SM 2540C	WET/31825		
60109015005	MW-11	SM 2540C	WET/31825		
60109015006	MW-12	SM 2540C	WET/31825		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60109015007	MW-13	SM 2540C	WET/31825		
60109015008	MW-14	SM 2540C	WET/31770		
60109015009	MW-15	SM 2540C	WET/31825		
60109015010	MW-16	SM 2540C	WET/31825		
60109015011	MW-17	SM 2540C	WET/31825		
60109015012	MW-18	SM 2540C	WET/31825		
60109015013	MW-19	SM 2540C	WET/31825		
60109015014	MW-20	SM 2540C	WET/31825		
60109015015	WW	SM 2540C	WET/31770		
60109015016	EW-1	SM 2540C	WET/31770		
60109015017	DUP-1	SM 2540C	WET/31825		
60109015018	DUP-2	SM 2540C	WET/31825		
60109015001	MW-2	EPA 300.0	WETA/18191		
60109015002	MW-4	EPA 300.0	WETA/18191		
60109015003	MW-6	EPA 300.0	WETA/18191		
60109015004	MW-10	EPA 300.0	WETA/18191		
60109015005	MW-11	EPA 300.0	WETA/18191		
60109015006	MW-12	EPA 300.0	WETA/18191		
60109015007	MW-13	EPA 300.0	WETA/18191		
60109015008	MW-14	EPA 300.0	WETA/18191		
60109015009	MW-15	EPA 300.0	WETA/18191		
60109015010	MW-16	EPA 300.0	WETA/18191		
60109015011	MW-17	EPA 300.0	WETA/18191		
60109015012	MW-18	EPA 300.0	WETA/18191		
60109015013	MW-19	EPA 300.0	WETA/18191		
60109015014	MW-20	EPA 300.0	WETA/18191		
60109015015	WW	EPA 300.0	WETA/18191		
60109015016	EW-1	EPA 300.0	WETA/18191		
60109015017	DUP-1	EPA 300.0	WETA/18191		
60109015018	DUP-2	EPA 300.0	WETA/18191		
60109015001	MW-2	EPA 353.2	WETA/18098		
60109015002	MW-4	EPA 353.2	WETA/18098		
60109015003	MW-6	EPA 353.2	WETA/18098		
60109015004	MW-10	EPA 353.2	WETA/18098		
60109015005	MW-11	EPA 353.2	WETA/18098		
60109015006	MW-12	EPA 353.2	WETA/18098		
60109015007	MW-13	EPA 353.2	WETA/18098		
60109015008	MW-14	EPA 353.2	WETA/18098		
60109015009	MW-15	EPA 353.2	WETA/18098		
60109015010	MW-16	EPA 353.2	WETA/18098		
60109015011	MW-17	EPA 353.2	WETA/18098		
60109015012	MW-18	EPA 353.2	WETA/18098		
60109015013	MW-19	EPA 353.2	WETA/18098		
60109015014	MW-20	EPA 353.2	WETA/18098		
60109015015	WW	EPA 353.2	WETA/18098		
60109015016	EW-1	EPA 353.2	WETA/18098		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60109015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60109015017	**DUP-1**	EPA 353.2	WETA/18098		
60109015018	**DUP-2**	EPA 353.2	WETA/18098		

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	COP CRA Midland TX
Address:	2135 South Loop, 250 West
	Midland, TX 79703
Email To:	
Phone: (432) 686-0086	Fax: (432) 686-0186
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Ken Horton
Copy To:	
Purchase Order No.:	
Project Name:	Maljamar Gas Plant
Project Number:	075018

Section C Invoice Information:

Attention:	COP ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: EPA 8260- BTEX	EPA 8270 SIM- PAH	EPA 6010- Ca, Mg, K, Na	EPA 300.0- Cl, Br, SO4	EPA 353.2- NO3	SM 2540C- TDS	SM 2320B- Tot/Carb/Bicar						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60010 9015	
1	MW-2	WT	G			10-25	1158		7	X		X	X				X		X	X	X	X	X	X						001
2	MW-4	WT	G			10-26	1300		7	X		X	X				X		X	X	X	X	X	X						002
3	MW-6	WT	G			10-25	1310		7	X		X	X				X		X	X	X	X	X	X						003
4	MW-10	WT	G			10-26	1125		7	X		X	X				X		X	X	X	X	X	X						004
5	MW-11	WT	G			10-26	1105		7	X		X	X				X		X	X	X	X	X	X						005
6	MW-12	WT	G			10-26	1355		7	X		X	X				X		X	X	X	X	X	X						006
7	MW-13	WT	G			10-26	1315		7	X		X	X				X		X	X	X	X	X	X						007
8	MW-14	WT	G			10-25	1330		7	X		X	X				X		X	X	X	X	X	X						008
9	MW-15	WT	G			10-26	1240		7	X		X	X				X		X	X	X	X	X	X						009
10	MW-16	WT	G			10-26	1225		7	X		X	X				X		X	X	X	X	X	X						010
11	MW-17	WT	G			10-26	1210		7	X		X	X				X		X	X	X	X	X	X						011
12	MW-18	WT	G			10-26	1158		7	X		X	X				X		X	X	X	X	X	X						012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		10-27-11	1500		10/28/11	930

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.7	Y	Y	Y
2.5/2.1	Y	Y	Y
1.8/0.9	Y	Y	Y
2.5/2.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Brewer

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 10-27-11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	COP CRA Midland TX
Address:	2135 South Loop, 250 West
	Midland, TX 79703
Email To:	
Phone:	(432) 686-0086
Fax:	(432) 686-0186
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Ken Horton
Copy To:	
Purchase Order No.:	
Project Name:	Maljamar Gas Plant
Project Number:	075018

Section C
Invoice Information:

Attention:	COP ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NM

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 60109015

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ICE	Analysis Test	EPA 8260- BTEX	EPA 8270 SIM- PAH	EPA 6010- Ca, Mg, K, Na	EPA 300.0- Cl, Br, SO4	EPA 353.2- NO3	SM 2540C- TDS	SM 2320B-Tot/Carb/Bicar	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-19	WT	G			10-26	1340		7	Y		Y	Y				X		X	X	X	X	X	X	X		3(DG9H) 2(AG1U) 1(BP1U) 1(BP3N) 013
2	MW-20	WT	G			10-26	1135		7	Y		Y	Y				X		X	X	X	X	X	X	X		014
3	WW	WT	G			10-25	1236		7	Y		Y	Y				X		X	X	X	X	X	X	X		015
4	EW-1	WT	G			10-25	1255		7	Y		Y	Y				X		X	X	X	X	X	X	X		016
5	DUP-1	WT	G			10-26	—		7	Y		Y	Y				X		X	X	X	X	X	X	X		017
6	DUP-2	WT	G			10-26	—		7	Y		Y	Y				X		X	X	X	X	X	X	X		018
7	TRIP	–	–										X				X										2(DG9H) 019
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	10-27-11	1500	[signature]	10/28/11	930	2.7	Y	Y	Y
							2.5/2.1	Y	Y	Y
							1.8/0.9	Y	Y	Y
							2.5/2.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Armendariz

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10-27-11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt – ESI Tech Specs

Client Name: CoP CRA TX Project #: 60097015

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐ _____

Optional
Proj Due Date: 11/9/11
Proj Name:

Tracking #: 7976 7410 5770 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐ _____

Thermometer Used: (T-191) / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.7, 3.5, 2.1, 1.8, 0.9, 2.5, 2.4

Date and initials of person examining contents: _____

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☐Yes ☑No ☐N/A	5. MW-2 + MW-6 + MW-14 + MW + EW-1
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. received expired NO3
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
-Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
-Includes date/time/ID/analyses Matrix: water		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed JWS / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 09261I-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: Ken Horton Date/Time: _____

Comments/ Resolution: Report to is Ken Horton. Per Ken- analyze NO3's out of hold & footnote.

Project Manager Review: AC Date: 10/31/11

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start:	Start:
End:	End:
Temp:	Temp:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the NCDENR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

APPENDIX B

HISTORICAL WATER LEVEL MEASUREMENTS

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-1	05/21/01	4002.24	78.25		0.00	0.00	78.25	3923.99
	06/29/01	4002.24	78.24		0.00	0.00	78.24	3924.00
	12/13/01	4002.24	78.66		0.00	0.00	78.66	3923.58
	03/22/02	4002.24	79.00		0.00	0.00	79.00	3923.24
	09/16/02	4002.24	79.44	79.25	0.19	0.15	79.29	3922.95
	09/20/02	4002.24	79.35	79.13	0.22	0.18	79.17	3923.07
	09/04/03	4002.24	78.34		0.00	0.00	78.34	3923.90
	04/05/04	4002.24	80.23	80.22	0.01	0.01	80.22	3922.02
	05/17/04	4002.24	81.32	80.28	1.04	0.83	80.49	3921.75
	05/24/04	4002.24	81.30	80.25	1.05	0.84	80.46	3921.78
	06/01/04	4002.24	81.36	80.30	1.06	0.85	80.51	3921.73
	06/07/04	4002.24	81.28	80.26	1.02	0.82	80.46	3921.78
	06/15/04	4002.24	81.43	80.36	1.07	0.86	80.57	3921.67
	06/21/04	4002.24	81.42	80.39	1.03	0.82	80.60	3921.64
	06/28/04	4002.24	81.69	80.58	1.11	0.89	80.80	3921.44
	07/06/04	4002.24	81.59	80.49	1.10	0.88	80.71	3921.53
	07/12/04	4002.24	81.67	80.57	1.10	0.88	80.79	3921.45
	07/19/04	4002.24	81.63	80.57	1.06	0.85	80.78	3921.46
	07/26/04	4002.24	81.82	80.72	1.10	0.88	80.94	3921.30
	08/02/04	4002.24	81.72	80.63	1.09	0.87	80.85	3921.39
	08/10/04	4002.24	81.82	80.72	1.10	0.88	80.94	3921.30
	08/16/04	4002.24	81.83	80.74	1.09	0.87	80.96	3921.28
	08/23/04	4002.24	81.61	80.57	1.04	0.83	80.78	3921.46
	08/30/04	4002.24	81.84	80.75	1.09	0.87	80.97	3921.27
	09/08/04	4002.24	81.91	80.83	1.08	0.86	81.05	3921.19
	10/08/04	4002.24	81.92	80.87	1.05	0.84	81.08	3921.16
	12/30/04	4002.24	81.94	80.97	0.97	0.78	81.16	3921.08
	01/17/05	4002.24	82.28	81.27	1.01	0.81	81.47	3920.77
	03/09/05	4002.24	82.30	81.23	1.07	0.86	81.44	3920.80
	04/05/05	4002.24	82.05	81.04	1.01	0.81	81.24	3921.00
	05/10/05	4002.24	82.15	81.16	0.99	0.79	81.36	3920.88
	06/08/05	4002.24	82.24	81.23	1.01	0.81	81.43	3920.81
	07/05/05	4002.24	82.49	81.43	1.06	0.85	81.64	3920.60
	08/08/05	4002.24	82.41	81.42	0.99	0.79	81.62	3920.62
	09/14/05	4002.24	82.33	81.35	0.98	0.78	81.55	3920.69
	10/12/05	4002.24	82.43	81.42	1.01	0.81	81.62	3920.62
	11/09/05	4002.24	82.48	81.46	1.02	0.82	81.66	3920.58
	12/14/05	4002.24	82.28	81.30	0.98	0.78	81.50	3920.74
	01/12/06	4002.24	82.15	81.21	0.94	0.75	81.40	3920.84
	02/02/06	4002.24	82.08	81.11	0.97	0.78	81.30	3920.94
	03/07/06	4002.24	82.23	81.29	0.94	0.75	81.48	3920.76
	04/05/06	4002.24	82.16	81.22	0.94	0.75	81.41	3920.83
	05/08/06	4002.24	82.05	81.11	0.94	0.75	81.30	3920.94
	06/05/06	4002.24	82.09	81.15	0.94	0.75	81.34	3920.90
	07/11/06	4002.24	82.06	81.11	0.95	0.76	81.30	3920.94
	08/16/06	4002.24	82.03	81.08	0.95	0.76	81.27	3920.97
	09/07/06	4002.24	81.83	80.93	0.90	0.72	81.11	3921.13
	10/11/06	4002.24	81.77	80.89	0.88	0.70	81.07	3921.17
	11/08/06	4002.24	81.65	80.79	0.86	0.69	80.96	3921.28
	12/04/06	4002.24	82.08	81.23	0.85	0.68	81.40	3920.84
	01/04/07	4002.24	81.51	80.68	0.83	0.66	80.85	3921.39
	02/27/07	4002.24	81.35	80.48	0.87	0.70	80.65	3921.59

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	03/20/07	4002.24	81.48	80.61	0.87	0.70	80.78	3921.46
	04/17/07	4002.24	81.31	80.47	0.84	0.67	80.64	3921.60
	05/07/07	4002.24	81.43	80.54	0.89	0.71	80.72	3921.52
	06/27/07	4002.24	81.25	80.35	0.90	0.72	80.53	3921.71
	07/19/07	4002.24	81.16	80.28	0.88	0.70	80.46	3921.78
	08/21/07	4002.24	81.03	80.12	0.91	0.73	80.30	3921.94
	09/17/07	4002.24	81.05	80.14	0.91	0.73	80.32	3921.92
	10/16/07	4002.24	80.85	79.91	0.94	0.75	80.10	3922.14
	11/20/07	4002.24	81.00	80.05	0.95	0.76	80.24	3922.00
	12/21/07	4002.24	80.85	79.88	0.97	0.78	80.07	3922.17
	01/22/08	4002.24	81.06	79.97	1.09	0.87	80.19	3922.05
	02/27/08	4002.24	81.05	79.90	1.15	0.92	80.13	3922.11
	03/25/08	4002.24	80.94	79.70	1.24	0.99	79.95	3922.29
	04/29/08	4002.24	81.03	79.59	1.44	1.15	79.88	3922.36
	05/05/08	4002.24	81.00	79.51	1.49	1.19	79.81	3922.43
	06/10/08	4002.24	81.20	79.35	1.85	1.48	79.72	3922.52
	07/15/08	4002.24	81.44	79.23	2.21	1.77	79.67	3922.57
	08/19/08	4002.24	81.70	79.05	2.65	2.12	79.58	3922.66
	09/16/08	4002.24	82.10	79.10	3.00	2.40	79.70	3922.54
	10/15/08	4002.24	82.25	78.91	3.34	2.67	79.58	3922.66
	11/12/08	4002.24	82.19	78.63	3.56	2.85	79.34	3922.90
	12/11/08	4002.24	82.58	78.70	3.88	3.10	79.48	3922.76
	01/13/09	4002.24	82.95	78.74	4.21	3.37	79.58	3922.66
	02/11/09	4002.24	82.78	78.40	4.38	3.50	79.28	3922.96
	03/10/09	4002.24	82.72	78.31	4.41	3.53	79.19	3923.05
	04/13/09	4002.24	82.90	78.24	4.66	3.73	79.17	3923.07
	05/01/09	4002.24	82.82	78.11	4.71	3.77	79.05	3923.19
	06/08/09	4002.24	82.78	77.97	4.81	3.85	78.93	3923.31
	07/13/09	4002.24	82.95	78.00	4.95	3.96	78.99	3923.25
	08/10/09	4002.24	83.09	77.97	5.12	4.10	78.99	3923.25
	09/15/09	4002.24	83.02	77.78	5.24	4.19	78.83	3923.41
	10/06/09	4002.24	83.01	77.78	5.23	4.18	78.83	3923.41
	11/09/09	4002.24	83.23	77.88	5.35	4.28	78.95	3923.29
	12/23/09	4002.24	82.85	77.48	5.37	4.30	78.55	3923.69
	01/20/10	4002.24	82.83	77.47	5.36	4.29	78.54	3923.70
	02/09/10	4002.24	83.33	77.78	5.55	4.44	78.89	3923.35
	03/09/10	4002.24	82.99	77.55	5.44	4.35	78.64	3923.60
	04/12/10	4002.24	83.30	77.78	5.52	4.42	78.88	3923.36
	05/24/10	4002.24	83.17	77.65	5.52	4.42	78.75	3923.49
	06/14/10	4002.24	83.29	77.87	5.42	4.34	78.95	3923.29
	07/20/10	4002.24	83.37	77.82	5.55	4.44	78.93	3923.31
	08/10/10	4002.24	85.43	79.86	5.57	4.46	80.97	3921.27
	08/11/10	4002.24	79.07	79.05	0.02	0.02	79.05	3923.19
	08/18/10	4002.24	81.16	81.07	0.09	0.07	81.09	3921.15
	09/21/10	4002.24	78.98	78.89	0.09	0.07	78.91	3923.33
	09/28/10	4002.24	78.07	77.96	0.11	0.09	77.98	3924.26
	11/08/10	4002.24	79.03	78.91	0.12	0.10	78.93	3923.31
	12/07/10	4002.24	79.08	78.95	0.13	0.10	78.98	3923.26
	01/18/11	4002.24	79.18	79.10	0.08	0.06	79.12	3923.12
	02/08/11	4002.24	79.97	78.83	1.14	0.91	79.06	3923.18
	03/08/11	4002.24	79.13	78.92	0.21	0.17	78.96	3923.28
	04/13/11	4002.24	79.21	78.98	0.23	0.18	79.03	3923.21

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	05/23/11	4002.24	79.20	78.95	0.25	0.20	79.00	3923.24
	06/28/11	4002.24	79.54	79.17	0.37	0.30	79.24	3923.00
	07/19/11	4002.24	79.36	79.04	0.32	0.26	79.10	3923.14
	08/31/11	4002.24	81.38	81.07	0.31	0.25	81.13	3921.11
	09/27/11	4002.24	81.40	81.10	0.30	0.24	81.16	3921.08
	10/24/11	4002.24	81.24	80.99	0.25	0.20	81.04	3921.20
	11/29/11	4002.24	81.59	81.32	0.27	0.22	81.37	3920.87
	12/23/11	4002.24	81.68	81.36	0.32	0.26	81.42	3920.82
MW-2	05/21/01	4005.12	76.63		0.00	0.00	76.63	3928.49
	06/29/01	4005.12	76.57		0.00	0.00	76.57	3928.55
	12/13/01	4005.12	76.94		0.00	0.00	76.94	3928.18
	02/28/02	4005.12	76.92		0.00	0.00	76.92	3928.20
	03/22/02	4005.12	77.29		0.00	0.00	77.29	3927.83
	09/16/02	4005.12	77.57		0.00	0.00	77.57	3927.55
	09/20/02	4005.12	77.47		0.00	0.00	77.47	3927.65
	04/05/04	4005.12	80.23		0.00	0.00	80.23	3924.89
	05/17/04	4005.12	78.62		0.00	0.00	78.62	3926.50
	05/24/04	4005.12	78.81		0.00	0.00	78.81	3926.31
	06/01/04	4005.12	79.06		0.00	0.00	79.06	3926.06
	06/07/04	4005.12	79.04		0.00	0.00	79.04	3926.08
	06/15/04	4005.12	79.20		0.00	0.00	79.20	3925.92
	06/21/04	4005.12	79.23		0.00	0.00	79.23	3925.89
	06/28/04	4005.12	79.54		0.00	0.00	79.54	3925.58
	07/06/04	4005.12	79.38		0.00	0.00	79.38	3925.74
	07/12/04	4005.12	79.50		0.00	0.00	79.50	3925.62
	07/19/04	4005.12	79.45		0.00	0.00	79.45	3925.67
	07/26/04	4005.12	79.68		0.00	0.00	79.68	3925.44
	08/02/04	4005.12	79.52		0.00	0.00	79.52	3925.60
	08/10/04	4005.12	79.66		0.00	0.00	79.66	3925.46
	08/16/04	4005.12	79.65		0.00	0.00	79.65	3925.47
	08/23/04	4005.12	79.39		0.00	0.00	79.39	3925.73
	08/30/04	4005.12	79.64		0.00	0.00	79.64	3925.48
	09/08/04	4005.12	79.94	79.73	0.21	0.17	79.77	3925.35
	10/08/04	4005.12	79.73		0.00	0.00	79.73	3925.39
	12/30/05	4005.12	79.71		0.00	0.00	79.71	3925.41
	01/17/05	4005.12	79.85		0.00	0.00	79.85	3925.27
	03/09/05	4005.12	80.00		0.00	0.00	80.00	3925.12
	04/05/05	4005.12	79.72		0.00	0.00	79.72	3925.40
	05/10/05	4005.12	79.77		0.00	0.00	79.77	3925.35
	06/08/05	4005.12	79.83		0.00	0.00	79.83	3925.29
	07/05/05	4005.12	80.13		0.00	0.00	80.13	3924.99
	08/08/05	4005.12	80.03		0.00	0.00	80.03	3925.09
	09/14/05	4005.12	79.69		0.00	0.00	79.69	3925.43
	10/12/05	4005.12	79.59	79.59	0.00	0.00	79.59	3925.53
	11/09/05	4005.12	79.58		0.00	0.00	79.58	3925.54
	12/14/05	4005.12	79.58		0.00	0.00	79.58	3925.54
	01/12/06	4005.12	79.21		0.00	0.00	79.21	3925.91
	02/02/06	4005.12	79.22		0.00	0.00	79.22	3925.90
	03/07/06	4005.12	79.71		0.00	0.00	79.71	3925.41
	04/05/06	4005.12	79.91	79.90	0.01	0.01	79.90	3925.22
	05/08/06	4005.12	79.62	79.62	0.00	0.00	79.62	3925.50
	06/05/06	4005.12	79.64		0.00	0.00	79.64	3925.48

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/11/06	4005.12	79.56	79.56	0.00	0.00	79.56	3925.56
	08/16/06	4005.12	79.11		0.00	0.00	79.11	3926.01
	09/07/06	4005.12	79.15		0.00	0.00	79.15	3925.97
	10/11/06	4005.12	79.22	79.21	0.01	0.01	79.21	3925.91
	11/08/06	4005.12	79.04	79.04	0.00	0.00	79.04	3926.08
	12/04/06	4005.12	79.68	79.68	0.00	0.00	79.68	3925.44
	01/04/07	4005.12	78.79		0.00	0.00	78.79	3926.33
	02/27/07	4005.12	78.78	78.77	0.01	0.01	78.77	3926.35
	03/20/07	4005.12	79.31	79.30	0.01	0.01	79.30	3925.82
	04/17/07	4005.12	79.40	79.39	0.01	0.01	79.39	3925.73
	05/07/07	4005.12	79.30	79.30	0.00	0.00	79.30	3925.82
	06/27/07	4005.12	78.98		0.00	0.00	78.98	3926.14
	07/19/07	4005.12	78.85		0.00	0.00	78.85	3926.27
	08/21/07	4005.12	78.71		0.00	0.00	78.71	3926.41
	09/17/07	4005.12	78.72		0.00	0.00	78.72	3926.40
	10/16/07	4005.12	78.61		0.00	0.00	78.61	3926.51
	11/20/07	4005.12	78.67		0.00	0.00	78.67	3926.45
	12/21/07	4005.12	78.47		0.00	0.00	78.47	3926.65
	01/22/08	4005.12	78.78		0.00	0.00	78.78	3926.34
	02/27/08	4005.12	78.35		0.00	0.00	78.35	3926.77
	03/25/08	4005.12	78.40		0.00	0.00	78.40	3926.72
	04/29/08	4005.12	78.48		0.00	0.00	78.48	3926.64
	05/05/08	4005.12	78.41		0.00	0.00	78.41	3926.71
	06/10/08	4005.12	78.42		0.00	0.00	78.42	3926.70
	07/15/08	4005.12	78.36		0.00	0.00	78.36	3926.76
	08/19/08	4005.12	77.95		0.00	0.00	77.95	3927.17
	09/16/08	4005.12	78.09		0.00	0.00	78.09	3927.03
	10/15/08	4005.12	77.99		0.00	0.00	77.99	3927.13
	11/12/08	4005.12	77.74		0.00	0.00	77.74	3927.38
	12/11/08	4005.12	78.14		0.00	0.00	78.14	3926.98
	01/13/09	4005.12	78.43		0.00	0.00	78.43	3926.69
	02/11/09	4005.12	78.03		0.00	0.00	78.03	3927.09
	03/10/09	4005.12	77.90		0.00	0.00	77.90	3927.22
	04/13/09	4005.12	78.03		0.00	0.00	78.03	3927.09
	05/01/09	4005.12	77.89		0.00	0.00	77.89	3927.23
	06/08/09	4005.12	77.77		0.00	0.00	77.77	3927.35
	07/13/09	4005.12	77.81		0.00	0.00	77.81	3927.31
	08/10/09	4005.12	77.86		0.00	0.00	77.86	3927.26
	09/15/09	4005.12	77.70		0.00	0.00	77.70	3927.42
	10/06/09	4005.12	77.58		0.00	0.00	77.58	3927.54
	11/09/09	4005.12	77.83		0.00	0.00	77.83	3927.29
	12/23/09	4005.12	77.35		0.00	0.00	77.35	3927.77
	01/20/10	4005.12	77.29		0.00	0.00	77.29	3927.83
	02/09/10	4005.12	77.87		0.00	0.00	77.87	3927.25
	03/09/10	4005.12	77.52		0.00	0.00	77.52	3927.60
	04/12/10	4005.12	77.86		0.00	0.00	77.86	3927.26
	05/24/10	4005.12	77.62		0.00	0.00	77.62	3927.50
	05/14/10	4005.12	77.79		0.00	0.00	77.79	3927.33
	07/20/10	4005.12	77.84		0.00	0.00	77.84	3927.28
	08/11/10	4005.12	77.83		0.00	0.00	77.83	3927.29
	09/21/10	4005.12	77.75		0.00	0.00	77.75	3927.37
	11/08/10	4005.12	77.77		0.00	0.00	77.77	3927.35

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	12/07/10	4005.12	77.92		0.00	0.00	77.92	3927.20
	01/18/11	4005.12	78.00		0.00	0.00	78.00	3927.12
	02/08/11	4005.12	77.82		0.00	0.00	77.82	3927.30
	03/08/11	4005.12	77.40		0.00	0.00	77.40	3927.72
	04/13/11	4005.12	77.48		0.00	0.00	77.48	3927.64
	05/23/11	4005.12	77.31		0.00	0.00	77.31	3927.81
	06/28/11	4005.12	78.25		0.00	0.00	78.25	3926.87
	07/19/11	4005.12	78.27		0.00	0.00	78.27	3926.85
	08/31/11	4005.12	78.26		0.00	0.00	78.26	3926.86
	09/27/11	4005.12	78.31		0.00	0.00	78.31	3926.81
	10/24/11	4005.12	78.32		0.00	0.00	78.32	3926.80
	11/29/11	4005.12	78.62		0.00	0.00	78.62	3926.50
	12/23/11	4005.12	78.44		0.00	0.00	78.44	3926.68
MW-3	02/06/02	4001.94	79.30	77.13	2.17	1.74	77.56	3924.38
	02/13/02	4001.94	79.62	77.71	1.91	1.53	78.09	3923.85
	03/22/02	4001.94	78.05	77.80	0.25	0.20	77.85	3924.09
	09/16/02	4001.94	78.18	78.14	0.04	0.03	78.15	3923.79
	09/20/02	4001.94	77.98	77.98	0.00	0.00	77.98	3923.96
	09/04/03	4001.94	79.29	78.91	0.38	0.30	78.99	3922.95
	04/05/04	4001.94	79.10	79.04	0.06	0.05	79.05	3922.89
	05/17/04	4001.94	79.46	79.08	0.38	0.30	79.16	3922.78
	05/24/04	4001.94	79.41	79.05	0.36	0.29	79.12	3922.82
	06/01/04	4001.94	79.58	79.17	0.41	0.33	79.25	3922.69
	06/07/04	4001.94	79.50	79.12	0.38	0.30	79.20	3922.74
	06/15/04	4001.94	79.68	79.24	0.44	0.35	79.33	3922.61
	06/21/04	4001.94	79.65	79.24	0.41	0.33	79.32	3922.62
	06/28/04	4001.94	80.04	79.53	0.51	0.41	79.63	3922.31
	07/06/04	4001.94	79.87	79.40	0.47	0.38	79.49	3922.45
	07/12/04	4001.94	80.00	79.49	0.51	0.41	79.59	3922.35
	07/19/04	4001.94	79.94	79.46	0.48	0.38	79.56	3922.38
	07/26/04	4001.94	80.18	79.65	0.53	0.42	79.76	3922.18
	08/02/04	4001.94	80.01	79.52	0.49	0.39	79.62	3922.32
	08/10/04	4001.94	80.12	79.59	0.53	0.42	79.70	3922.24
	08/16/04	4001.94	80.16	79.62	0.54	0.43	79.73	3922.21
	08/23/04	4001.94	79.82	79.39	0.43	0.34	79.48	3922.46
	08/30/04	4001.94	80.14	79.62	0.52	0.42	79.72	3922.22
	09/08/04	4001.94	80.24	79.68	0.56	0.45	79.79	3922.15
	10/08/04	4001.94	80.19	79.69	0.50	0.40	79.79	3922.15
	12/30/04	4001.94	80.13	79.71	0.42	0.34	79.79	3922.15
	01/17/05	4001.94	80.57	79.00	1.57	1.26	79.31	3922.63
	03/09/05	4001.94	80.50	80.00	0.50	0.40	80.10	3921.84
	04/05/05	4001.94	80.14	79.79	0.35	0.28	79.86	3922.08
	05/10/05	4001.94	80.23	79.84	0.39	0.31	79.92	3922.02
	06/08/05	4001.94	80.34	79.91	0.43	0.34	80.00	3921.94
	07/05/05	4001.94	80.69	80.15	0.54	0.43	80.26	3921.68
	08/08/05	4001.94	80.57	80.07	0.50	0.40	80.17	3921.77
	09/14/05	4001.94	80.39	79.96	0.43	0.34	80.05	3921.89
	10/12/05	4001.94	80.47	80.04	0.43	0.34	80.13	3921.81
	11/09/05	4001.94	80.46	80.06	0.40	0.32	80.14	3921.80
	12/14/05	4001.94	80.23	79.90	0.33	0.26	79.97	3921.97
	01/12/06	4001.94	79.99	79.72	0.27	0.22	79.77	3922.17
	02/02/06	4001.94	79.93	79.70	0.23	0.18	79.75	3922.19

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	03/07/06	4001.94	80.24	79.90	0.34	0.27	79.97	3921.97
	04/05/06	4001.94	80.25	79.91	0.34	0.27	79.98	3921.96
	05/08/06	4001.94	80.10	79.83	0.27	0.22	79.88	3922.06
	06/05/06	4001.94	80.15	79.86	0.29	0.23	79.92	3922.02
	07/11/06	4001.94	80.10	79.85	0.25	0.20	79.90	3922.04
	08/16/06	4001.94	79.99	79.80	0.19	0.15	79.84	3922.10
	09/07/06	4001.94	79.64		0.00	0.00	79.64	3922.30
	10/11/06	4001.94	79.84	79.64	0.20	0.16	79.68	3922.26
	11/08/06	4001.94	79.66	79.51	0.15	0.12	79.54	3922.40
	12/04/06	4001.94	80.32	80.01	0.31	0.25	80.07	3921.87
	01/04/07	4001.94	79.39	79.39	0.00	0.00	79.39	3922.55
	02/27/07	4001.94	79.49	79.34	0.15	0.12	79.37	3922.57
	03/20/07	4001.94	79.74	79.56	0.18	0.14	79.60	3922.34
	04/17/07	4001.94	79.66	79.47	0.19	0.15	79.51	3922.43
	05/07/07	4001.94	79.63		0.00	0.00	79.63	3922.31
	06/27/07	4001.94	79.58	79.41	0.17	0.14	79.44	3922.50
	07/19/07	4001.94	79.25	79.25	0.00	0.00	79.25	3922.69
	08/21/07	4001.94	79.30	79.18	0.12	0.10	79.20	3922.74
	09/17/07	4001.94	79.32	79.18	0.14	0.11	79.21	3922.73
	10/16/07	4001.94	79.26	79.15	0.11	0.09	79.17	3922.77
	11/20/07	4001.94	79.25	79.17	0.08	0.06	79.19	3922.75
	12/21/07	4001.94	79.00		0.00	0.00	79.00	3922.94
	01/22/08	4001.94	79.32	79.30	0.02	0.02	79.30	3922.64
	02/27/08	4001.94	79.20	79.15	0.05	0.04	79.16	3922.78
	03/25/08	4001.94	79.00	78.95	0.05	0.04	78.96	3922.98
	04/29/08	4001.94	79.00	78.98	0.02	0.02	78.98	3922.96
	05/05/08	4001.94	78.94	78.92	0.02	0.02	78.92	3923.02
	06/10/08	4001.94	78.89	78.87	0.02	0.02	78.87	3923.07
	07/15/08	4001.94	78.82	78.80	0.02	0.02	78.80	3923.14
	08/19/08	4001.94	78.64		0.00	0.00	78.64	3923.30
	09/16/08	4001.94	78.92	78.83	0.09	0.07	78.85	3923.09
	10/15/08	4001.94	78.85	78.67	0.18	0.14	78.71	3923.23
	11/12/08	4001.94	78.54	78.36	0.18	0.14	78.40	3923.54
	12/11/08	4001.94	78.80	78.56	0.24	0.19	78.61	3923.33
	01/19/09	4001.94	78.97	78.74	0.23	0.18	78.79	3923.15
	02/11/09	4001.94	78.56	78.39	0.17	0.14	78.42	3923.52
	03/10/09	4001.94	78.36	78.28	0.08	0.06	78.30	3923.64
	04/13/09	4001.94	78.48	78.34	0.14	0.11	78.37	3923.57
	05/01/09	4001.94	78.28	78.20	0.08	0.06	78.22	3923.72
	06/08/09	4001.94	78.11	78.07	0.04	0.03	78.08	3923.86
	07/13/09	4001.94	78.26	78.13	0.13	0.10	78.16	3923.78
	08/10/09	4001.94	78.22	78.12	0.10	0.08	78.14	3923.80
	09/15/09	4001.94	78.08	77.95	0.13	0.10	77.98	3923.96
	10/06/09	4001.94	77.96	77.87	0.09	0.07	77.89	3924.05
	11/09/09	4001.94	78.17	78.05	0.12	0.10	78.07	3923.87
	12/23/09	4001.94	77.62	77.60	0.02	0.02	77.60	3924.34
	01/20/10	4001.94	77.57	77.55	0.02	0.02	77.55	3924.39
	02/09/10	4001.94	78.20	78.09	0.11	0.09	78.11	3923.83
	03/09/10	4001.94	77.76	77.74	0.02	0.02	77.74	3924.20
	04/12/10	4001.94	78.09	78.00	0.09	0.07	78.02	3923.92
	05/24/10	4001.94	77.85	77.82	0.03	0.02	77.83	3924.11
	06/14/10	4001.94	78.02	77.97	0.05	0.04	77.98	3923.96

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/20/10	4001.94	78.08	78.03	0.05	0.04	78.04	3923.90
	08/11/10	4001.94	78.11	78.05	0.06	0.05	78.06	3923.88
	09/21/10	4001.94	77.98	77.95	0.03	0.02	77.96	3923.98
	10/20/10	4001.94	78.11	78.06	0.05	0.04	78.07	3923.87
	11/08/10	4001.94	77.96	77.95	0.01	0.01	77.95	3923.99
	12/07/10	4001.94	78.07	78.05	0.02	0.02	78.05	3923.89
	01/18/11	4001.94	78.07		0.00	0.00	78.07	3923.87
	02/08/11	4001.94	NM					
	03/08/11	4001.94	77.81	77.80	0.01	0.01	77.80	3924.14
	04/13/11	4001.94	77.95	77.94	0.01	0.01	77.94	3924.00
	05/23/11	4001.94	77.83	77.82	0.01	0.01	77.82	3924.12
	06/28/11	4001.94	78.20		0.00	0.00	78.20	3923.74
	07/19/11	4001.94	78.29		0.00	0.00	78.29	3923.65
	08/31/11	4001.94	78.17		0.00		78.17	3923.77
	09/27/11	4001.94	78.20		0.00		78.20	3923.74
	10/24/11	4001.94	78.37	78.33	0.04	0.03	78.34	3923.60
	11/29/11	4001.94	78.43	78.42	0.01	0.01	78.42	3923.52
	12/23/11	4001.94	78.45		0.00		78.45	3923.49
MW-4	05/22/01	4016.20	95.20		0.00	0.00	95.20	3921.00
	05/24/01	4016.20	94.88		0.00	0.00	94.88	3921.32
	06/29/01	4016.20	94.87		0.00	0.00	94.87	3921.33
	12/13/01	4016.20	95.27		0.00	0.00	95.27	3920.93
	03/22/02	4016.20	95.37		0.00	0.00	95.37	3920.83
	09/16/02	4016.20	95.53		0.00	0.00	95.53	3920.67
	09/20/02	4016.20	95.42		0.00	0.00	95.42	3920.78
	04/05/04	4016.20	96.38		0.00	0.00	96.38	3919.82
	05/17/04	4016.20	96.43		0.00	0.00	96.43	3919.77
	05/24/04	4016.20	96.37		0.00	0.00	96.37	3919.83
	06/01/04	4016.20	96.42		0.00	0.00	96.42	3919.78
	06/07/04	4016.20	96.34		0.00	0.00	96.34	3919.86
	06/15/04	4016.20	96.45		0.00	0.00	96.45	3919.75
	06/21/04	4016.20	96.42		0.00	0.00	96.42	3919.78
	06/28/04	4016.20	96.66		0.00	0.00	96.66	3919.54
	07/06/04	4016.20	96.54		0.00	0.00	96.54	3919.66
	07/12/04	4016.20	96.62		0.00	0.00	96.62	3919.58
	07/19/04	4016.20	96.56		0.00	0.00	96.56	3919.64
	07/26/04	4016.20	96.73		0.00	0.00	96.73	3919.47
	08/02/04	4016.20	96.61		0.00	0.00	96.61	3919.59
	08/10/04	4016.20	96.75		0.00	0.00	96.75	3919.45
	08/16/04	4016.20	96.69		0.00	0.00	96.69	3919.51
	08/23/04	4016.20	96.49		0.00	0.00	96.49	3919.71
	08/30/04	4016.20	96.69		0.00	0.00	96.69	3919.51
	09/08/04	4016.20	96.74		0.00	0.00	96.74	3919.46
	10/08/04	4016.20	96.71		0.00	0.00	96.71	3919.49
	12/30/04	4016.20	96.65		0.00	0.00	96.65	3919.55
	01/17/05	4016.20	97.03		0.00	0.00	97.03	3919.17
	02/09/05	4016.20	96.94		0.00	0.00	96.94	3919.26
	03/09/05	4016.20	96.96		0.00	0.00	96.96	3919.24
	04/05/05	4016.20	96.71		0.00	0.00	96.71	3919.49
	05/10/05	4016.20	96.75		0.00	0.00	96.75	3919.45
	06/08/05	4016.20	96.85		0.00	0.00	96.85	3919.35
	07/05/05	4016.20	97.08		0.00	0.00	97.08	3919.12

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	08/08/05	4016.20	96.97		0.00	0.00	96.97	3919.23
	09/14/05	4016.20	96.94		0.00	0.00	96.94	3919.26
	10/12/05	4016.20	97.07		0.00	0.00	97.07	3919.13
	11/09/05	4016.20	97.14		0.00	0.00	97.14	3919.06
	12/14/05	4016.20	97.03		0.00	0.00	97.03	3919.17
	01/12/06	4016.20	96.91		0.00	0.00	96.91	3919.29
	02/02/06	4016.20	96.91		0.00	0.00	96.91	3919.29
	03/07/06	4016.20	97.04		0.00	0.00	97.04	3919.16
	04/05/06	4016.20	96.99		0.00	0.00	96.99	3919.21
	05/08/06	4016.20	96.95		0.00	0.00	96.95	3919.25
	06/05/06	4016.20	97.05		0.00	0.00	97.05	3919.15
	07/11/06	4016.20	97.09		0.00	0.00	97.09	3919.11
	08/16/06	4016.20	97.16		0.00	0.00	97.16	3919.04
	09/07/06	4016.20	97.08		0.00	0.00	97.08	3919.12
	10/11/06	4016.20	97.10		0.00	0.00	97.10	3919.10
	11/08/06	4016.20	97.00		0.00	0.00	97.00	3919.20
	12/04/06	4016.20	97.48		0.00	0.00	97.48	3918.72
	01/04/07	4016.20	96.97		0.00	0.00	96.97	3919.23
	02/27/07	4016.20	97.03		0.00	0.00	97.03	3919.17
	03/20/07	4016.20	97.18		0.00	0.00	97.18	3919.02
	04/17/07	4016.20	97.02		0.00	0.00	97.02	3919.18
	05/07/07	4016.20	97.20		0.00	0.00	97.20	3919.00
	06/27/07	4016.20	97.09		0.00	0.00	97.09	3919.11
	07/19/07	4016.20	97.02		0.00	0.00	97.02	3919.18
	08/21/07	4016.20	96.95		0.00	0.00	96.95	3919.25
	09/17/07	4016.20	96.98		0.00	0.00	96.98	3919.22
	10/16/07	4016.20	96.93		0.00	0.00	96.93	3919.27
	11/20/07	4016.20	97.03		0.00	0.00	97.03	3919.17
	12/21/07	4016.20	96.91		0.00	0.00	96.91	3919.29
	01/22/08	4016.20	97.28		0.00	0.00	97.28	3918.92
	02/27/08	4016.20	97.26		0.00	0.00	97.26	3918.94
	03/25/08	4016.20	97.14		0.00	0.00	97.14	3919.06
	04/29/08	4016.20	97.13		0.00	0.00	97.13	3919.07
	05/05/08	4016.20	97.08		0.00	0.00	97.08	3919.12
	06/10/08	4016.20	97.11		0.00	0.00	97.11	3919.09
	07/15/08	4016.20	97.11		0.00	0.00	97.11	3919.09
	08/19/08	4016.20	97.10		0.00	0.00	97.10	3919.10
	09/16/08	4016.20	97.32		0.00	0.00	97.32	3918.88
	10/15/08	4016.20	97.25		0.00	0.00	97.25	3918.95
	11/12/08	4016.20	97.01		0.00	0.00	97.01	3919.19
	12/11/08	4016.20	97.15		0.00	0.00	97.15	3919.05
	01/13/09	4016.20	97.31		0.00	0.00	97.31	3918.89
	02/11/09	4016.20	97.03		0.00	0.00	97.03	3919.17
	03/10/09	4016.20	96.88		0.00	0.00	96.88	3919.32
	04/13/09	4016.20	96.97		0.00	0.00	96.97	3919.23
	05/01/09	4016.20	96.80		0.00	0.00	96.80	3919.40
	06/08/09	4016.20	96.70		0.00	0.00	96.70	3919.50
	07/13/09	4016.20	96.72		0.00	0.00	96.72	3919.48
	08/10/09	4016.20	96.73		0.00	0.00	96.73	3919.47
	09/15/09	4016.20	96.57		0.00	0.00	96.57	3919.63
	10/06/09	4016.20	96.51		0.00	0.00	96.51	3919.69
	11/09/09	4016.20	96.63		0.00	0.00	96.63	3919.57

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	12/23/09	4016.20	96.25		0.00	0.00	96.25	3919.95
	01/20/10	4016.20	96.20		0.00	0.00	96.20	3920.00
	02/09/10	4016.20	96.61		0.00	0.00	96.61	3919.59
	03/09/10	4016.20	96.33		0.00	0.00	96.33	3919.87
	04/12/10	4016.20	96.51		0.00	0.00	96.51	3919.69
	05/24/10	4016.20	96.33		0.00	0.00	96.33	3919.87
	06/14/10	4016.20	96.40		0.00	0.00	96.40	3919.80
	07/20/10	4016.20	96.43		0.00	0.00	96.43	3919.77
	08/11/10	4016.20	96.46		0.00	0.00	96.46	3919.74
	09/21/10	4016.20	96.32		0.00	0.00	96.32	3919.88
	10/20/10	4016.20	96.45		0.00	0.00	96.45	3919.75
	11/08/10	4016.20	96.33		0.00	0.00	96.33	3919.87
	12/07/10	4016.20	96.36		0.00	0.00	96.36	3919.84
	01/18/11	4016.20	96.35		0.00	0.00	96.35	3919.85
	02/08/11	4016.20	96.18		0.00	0.00	96.18	3920.02
	03/08/11	4016.20	96.17		0.00	0.00	96.17	3920.03
	04/13/11	4016.20	96.32		0.00	0.00	96.32	3919.88
	05/23/11	4016.20	96.26		0.00	0.00	96.26	3919.94
	06/28/11	4016.20	96.46		0.00	0.00	96.46	3919.74
	07/19/11	4016.20	96.35		0.00	0.00	96.35	3919.85
	08/31/11	4016.20	96.24		0.00	0.00	96.24	3919.96
	09/27/11	4016.20	96.33		0.00	0.00	96.33	3919.87
	10/24/11	4016.20	96.30		0.00	0.00	96.30	3919.90
	11/29/11	4016.20	96.40		0.00	0.00	96.40	3919.80
	12/23/11	4016.20	96.29		0.00	0.00	96.29	3919.91
MW-5	05/23/01	4009.42	90.38		0.00	0.00	90.38	3919.04
	05/24/01	4009.42	90.20		0.00	0.00	90.20	3919.22
	12/13/01	4009.42	90.25		0.00	0.00	90.25	3919.17
	03/22/02	4009.42	90.24	90.22	0.02	0.02	90.22	3919.20
	09/16/02	4009.42	90.98	90.66	0.32	0.26	90.72	3918.70
	09/20/02	4009.42	90.88	90.59	0.29	0.23	90.65	3918.77
	04/05/04	4009.42	92.00	91.82	0.18	0.14	91.86	3917.56
	05/17/04	4009.42	92.10	91.91	0.19	0.15	91.95	3917.47
	05/24/04	4009.42	92.03	91.84	0.19	0.15	91.88	3917.54
	06/01/04	4009.42	92.10	91.91	0.19	0.15	91.95	3917.47
	06/07/04	4009.42	91.99	91.86	0.13	0.10	91.89	3917.53
	06/15/04	4009.42	92.12	91.94	0.18	0.14	91.98	3917.44
	06/21/04	4009.42	92.11	91.95	0.16	0.13	91.98	3917.44
	06/28/04	4009.42	92.33	92.15	0.18	0.14	92.19	3917.23
	07/06/04	4009.42	92.24	92.04	0.20	0.16	92.08	3917.34
	07/12/04	4009.42	92.31	92.12	0.19	0.15	92.16	3917.26
	07/19/04	4009.42	92.27	92.08	0.19	0.15	92.12	3917.30
	07/26/04	4009.42	92.39	92.19	0.20	0.16	92.23	3917.19
	08/02/04	4009.42	92.33	92.13	0.20	0.16	92.17	3917.25
	08/10/04	4009.42	92.40	92.21	0.19	0.15	92.25	3917.17
	08/16/04	4009.42	92.42	92.22	0.20	0.16	92.26	3917.16
	08/23/04	4009.42	92.15	92.02	0.13	0.10	92.05	3917.37
	08/30/04	4009.42	92.44	92.26	0.18	0.14	92.30	3917.12
	09/08/04	4009.42	92.44	92.24	0.20	0.16	92.28	3917.14
	10/08/04	4009.42	92.43	92.27	0.16	0.13	92.30	3917.12
	12/30/04	4009.42	92.41	92.34	0.07	0.06	92.35	3917.07
	01/17/05	4009.42	92.65	92.57	0.08	0.06	92.59	3916.83

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	02/09/05	4009.42	92.61	92.57	0.04	0.03	92.58	3916.84
	03/09/05	4009.42	92.65	92.63	0.02	0.02	92.63	3916.79
	04/05/05	4009.42	92.38		0.00	0.00	92.38	3917.04
	05/10/05	4009.42	92.40		0.00	0.00	92.40	3917.02
	06/08/05	4009.42	92.54		0.00	0.00	92.54	3916.88
	07/05/05	4009.42	92.78		0.00	0.00	92.78	3916.64
	08/08/05	4009.42	92.65		0.00	0.00	92.65	3916.77
	09/14/05	4009.42	92.61	92.61	0.00	0.00	92.61	3916.81
	10/12/05	4009.42	92.70		0.00	0.00	92.70	3916.72
	11/09/05	4009.42	92.75		0.00	0.00	92.75	3916.67
	12/14/05	4009.42	92.56		0.00	0.00	92.56	3916.86
	01/12/06	4009.42	92.38		0.00	0.00	92.38	3917.04
	02/02/06	4009.42	92.38	92.38	0.00	0.00	92.38	3917.04
	03/07/06	4009.42	92.43		0.00	0.00	92.43	3916.99
	04/05/06	4009.42	92.32		0.00	0.00	92.32	3917.10
	05/08/06	4009.42	92.26		0.00	0.00	92.26	3917.16
	06/05/06	4009.42	92.30	92.30	0.00	0.00	92.30	3917.12
	07/11/06	4009.42	92.33	92.33	0.00	0.00	92.33	3917.09
	08/16/06	4009.42	92.41		0.00	0.00	92.41	3917.01
	09/07/06	4009.42	92.83		0.00	0.00	92.83	3916.59
	10/11/06	4009.42	92.36	92.36	0.00	0.00	92.36	3917.06
	11/08/06	4009.42	92.25	92.24	0.01	0.01	92.24	3917.18
	12/04/06	4009.42	92.75	92.75	0.00	0.00	92.75	3916.67
	01/04/07	4009.42	92.26		0.00	0.00	92.26	3917.16
	02/27/07	4009.42	92.35	92.35	0.00	0.00	92.35	3917.07
	03/20/07	4009.42	92.51	92.51	0.00	0.00	92.51	3916.91
	04/17/07	4009.42	92.32	92.32	0.00	0.00	92.32	3917.10
	05/07/07	4009.42	92.56	92.56	0.00	0.00	92.56	3916.86
	06/27/07	4009.42	92.39		0.00	0.00	92.39	3917.03
	07/17/07	4009.42	92.32		0.00	0.00	92.32	3917.10
	08/21/07	4009.42	92.24		0.00	0.00	92.24	3917.18
	09/17/07	4009.42	92.26		0.00	0.00	92.26	3917.16
	10/16/07	4009.42	92.23		0.00	0.00	92.23	3917.19
	11/20/07	4009.42	92.28		0.00	0.00	92.28	3917.14
	12/21/07	4009.42	92.21		0.00	0.00	92.21	3917.21
	01/22/08	4009.42	91.88		0.00	0.00	91.88	3917.54
	02/27/08	4009.42	92.36		0.00	0.00	92.36	3917.06
	03/25/08	4009.42	92.20		0.00	0.00	92.20	3917.22
	04/29/08	4009.42	92.11		0.00	0.00	92.11	3917.31
	05/05/08	4009.42	92.08		0.00	0.00	92.08	3917.34
	06/10/08	4009.42	92.22	91.98	0.24	0.19	92.03	3917.39
	07/15/08	4009.42	92.11	91.88	0.23	0.18	91.93	3917.49
	08/19/08	4009.42	92.00	91.81	0.19	0.15	91.85	3917.57
	09/16/08	4009.42	92.15	91.95	0.20	0.16	91.99	3917.43
	10/15/08	4009.42	92.03	91.85	0.18	0.14	91.89	3917.53
	11/12/08	4009.42	91.76	91.64	0.12	0.10	91.66	3917.76
	12/11/08	4009.42	91.78	91.75	0.03	0.02	91.76	3917.66
	01/13/09	4009.42	91.98	91.86	0.12	0.10	91.88	3917.54
	02/11/09	4009.42	91.71	91.65	0.06	0.05	91.66	3917.76
	03/10/09	4009.42	91.50	91.46	0.04	0.03	91.47	3917.95
	04/13/09	4009.42	91.52		0.00	0.00	91.52	3917.90
	05/01/09	4009.42	91.35		0.00	0.00	91.35	3918.07

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/08/09	4009.42	91.21		0.00	0.00	91.21	3918.21
	07/13/09	4009.42	91.26		0.00	0.00	91.26	3918.16
	08/10/09	4009.42	91.30		0.00	0.00	91.30	3918.12
	09/15/09	4009.42	91.15		0.00	0.00	91.15	3918.27
	10/06/09	4009.42	91.15		0.00	0.00	91.15	3918.27
	11/09/09	4009.42	91.35		0.00	0.00	91.35	3918.07
	12/23/09	4009.42	90.89		0.00	0.00	90.89	3918.53
	01/20/10	4009.42	90.87		0.00	0.00	90.87	3918.55
	02/09/10	4009.42	91.45		0.00	0.00	91.45	3917.97
	03/09/10	4009.42	91.04		0.00	0.00	91.04	3918.38
	04/12/10	4009.42	91.32		0.00	0.00	91.32	3918.10
	05/24/10	4009.42	91.18		0.00	0.00	91.18	3918.24
	06/14/10	4009.42	91.25	91.24	0.01	0.01	91.24	3918.18
	07/20/10	4009.42	91.31	91.30	0.01	0.01	91.30	3918.12
	08/11/10	4009.42	91.38	91.36	0.02	0.02	91.36	3918.06
	09/21/10	4009.42	91.24		0.00	0.00	91.24	3918.18
	11/08/10	4009.42	91.27		0.00	0.00	91.27	3918.15
	12/07/10	4009.42	91.38		0.00	0.00	91.38	3918.04
	01/18/11	4009.42	91.48		0.00	0.00	91.48	3917.94
	02/08/11	4009.42	91.23		0.00	0.00	91.23	3918.19
	03/08/11	4009.42	91.31		0.00	0.00	91.31	3918.11
	04/13/11	4009.42	91.49		0.00	0.00	91.49	3917.93
	05/23/11	4009.42	91.48		0.00	0.00	91.48	3917.94
	06/28/11	4009.42	91.86	91.68	0.18	0.14	91.72	3917.70
	07/19/11	4009.42	91.72	91.55	0.17	0.14	91.58	3917.84
	08/31/11	4009.42	93.62	93.46	0.16	0.13	93.49	3915.93
	09/27/11	4009.42	93.62	93.48	0.14	0.11	93.51	3915.91
	10/24/11	4009.42	93.69	93.56	0.13	0.10	93.59	3915.83
	11/29/11	4009.42	93.82	93.75	0.07	0.06	93.76	3915.66
	12/23/11	4009.42	93.81	93.74	0.07	0.06	93.75	3915.67
MW-7	05/24/01	4002.94	75.38		0.00	0.00	75.38	3927.56
	02/06/02	4002.94	76.62	69.86	6.76	5.41	71.21	3931.73
	02/20/02	4002.94	76.16	69.92	6.24	4.99	71.17	3931.77
	02/28/02	4002.94	75.74	69.89	5.85	4.68	71.06	3931.88
	03/22/02	4002.94	76.40	70.07	6.33	5.06	71.34	3931.60
	09/16/02	4002.94	76.56	70.51	6.05	4.84	71.72	3931.22
	09/20/02	4002.94	76.08	70.23	5.85	4.68	71.40	3931.54
	12/20/02	4002.94	75.09	70.98	4.11	3.29	71.80	3931.14
	01/21/03	4002.94	75.43	71.11	4.32	3.46	71.97	3930.97
	01/22/03	4002.94	75.44	70.97	4.47	3.58	71.86	3931.08
	01/29/03	4002.94	75.47	71.04	4.43	3.54	71.93	3931.01
	02/10/03	4002.94	75.53	71.00	4.53	3.62	71.91	3931.03
	02/17/03	4002.94	75.40	70.92	4.48	3.58	71.82	3931.12
	03/20/03	4002.94	75.51	70.91	4.60	3.68	71.83	3931.11
	03/27/03	4002.94	75.09	70.64	4.45	3.56	71.53	3931.41
	04/08/03	4002.94	76.09	71.41	4.68	3.74	72.35	3930.59
	04/16/03	4002.94	75.52	70.87	4.65	3.72	71.80	3931.14
	04/23/03	4002.94	75.31	70.69	4.62	3.70	71.61	3931.33
	04/30/03	4002.94	75.44	70.84	4.60	3.68	71.76	3931.18
	05/13/03	4002.94	75.66	71.02	4.64	3.71	71.95	3930.99
	05/19/03	4002.94	75.63	71.00	4.63	3.70	71.93	3931.01
	05/28/03	4002.94	75.95	71.33	4.62	3.70	72.25	3930.69

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/04/03	4002.94	75.44	70.85	4.59	3.67	71.77	3931.17
	06/18/03	4002.94	75.64	71.10	4.54	3.63	72.01	3930.93
	08/28/03	4002.94	76.02	71.13	4.89	3.91	72.11	3930.83
	09/24/03	4002.94	76.17	71.42	4.75	3.80	72.37	3930.57
	04/05/04	4002.94	76.05	71.64	4.41	3.53	72.52	3930.42
	05/17/04	4002.94	87.40	72.50	14.90	11.92	75.48	3927.46
	05/24/04	4002.94	91.11	75.30	15.81	12.65	78.46	3924.48
	06/01/04	4002.94	85.60	73.17	12.43	9.94	75.66	3927.28
	06/07/04	4002.94	85.50	73.11	12.39	9.91	75.59	3927.35
	06/15/04	4002.94	79.80	73.18	6.62	5.30	74.50	3928.44
	06/21/04	4002.94	85.15	73.41	11.74	9.39	75.76	3927.18
	06/28/04	4002.94	84.98	73.51	11.47	9.18	75.80	3927.14
	07/06/04	4002.94	85.13	73.52	11.61	9.29	75.84	3927.10
	07/12/04	4002.94	85.16	73.66	11.50	9.20	75.96	3926.98
	07/19/04	4002.94	85.31	73.74	11.57	9.26	76.05	3926.89
	07/26/04	4002.94	85.27	73.76	11.51	9.21	76.06	3926.88
	08/02/04	4002.94	85.43	73.87	11.56	9.25	76.18	3926.76
	08/16/04	4002.94	85.06	73.68	11.38	9.10	75.96	3926.98
	08/23/04	4002.94	85.21	73.75	11.46	9.17	76.04	3926.90
	08/30/04	4002.94	85.41	73.93	11.48	9.18	76.23	3926.71
	09/08/04	4002.94	84.70	73.79	10.91	8.73	75.97	3926.97
	10/08/04	4002.94	84.10	73.91	10.19	8.15	75.95	3926.99
	12/30/04	4002.94	81.78	74.50	7.28	5.82	75.96	3926.98
	01/17/05	4002.94	77.57	74.56	3.01	2.41	75.16	3927.78
	02/09/05	4002.94	78.77	75.46	3.31	2.65	76.12	3926.82
	03/09/05	4002.94	78.68	75.41	3.27	2.62	76.06	3926.88
	04/05/05	4002.94	78.36	75.12	3.24	2.59	75.77	3927.17
	05/10/05	4002.94	78.19	75.02	3.17	2.54	75.65	3927.29
	06/08/05	4002.94	76.62	75.67	0.95	0.76	75.86	3927.08
	07/05/05	4002.94	76.88	75.77	1.11	0.89	75.99	3926.95
	08/08/05	4002.94	76.63	75.64	0.99	0.79	75.84	3927.10
	09/14/05	4002.94	75.05	73.91	1.14	0.91	74.14	3928.80
	10/12/05	4002.94	76.10	73.28	2.82	2.26	73.84	3929.10
	11/09/05	4002.94	75.99	73.21	2.78	2.22	73.77	3929.17
	12/14/05	4002.94	76.19	73.46	2.73	2.18	74.01	3928.93
	01/12/06	4002.94	75.34	72.93	2.41	1.93	73.41	3929.53
	02/02/06	4002.94	77.39	73.33	4.06	3.25	74.14	3928.80
	03/07/06	4002.94	75.82	74.50	1.32	1.06	74.76	3928.18
	04/05/06	4002.94	79.32	74.81	4.51	3.61	75.71	3927.23
	05/08/06	4002.94	78.81	74.34	4.47	3.58	75.23	3927.71
	06/05/06	4002.94	78.75	74.18	4.57	3.66	75.09	3927.85
	07/11/06	4002.94	75.31	75.31	0.00	0.00	75.31	3927.63
	08/16/06	4002.94	74.67	72.31	2.36	1.89	72.78	3930.16
	08/30/06	4002.94	74.56	72.58	1.98	1.58	72.98	3929.96
	09/07/06	4002.94	74.83	74.83	0.00	0.00	74.83	3928.11
	10/11/06	4002.94	75.02	74.96	0.06	0.05	74.97	3927.97
	11/08/06	4002.94	74.13		0.00	0.00	74.13	3928.81
	12/04/06	4002.94	75.08	74.83	0.25	0.20	74.88	3928.06
	01/04/07	4002.94	74.22	73.99	0.23	0.18	74.04	3928.90
	02/27/07	4002.94	73.95	73.63	0.32	0.26	73.69	3929.25
	03/20/07	4002.94	76.23	75.83	0.40	0.32	75.91	3927.03
	04/17/07	4002.94	76.96		0.00	0.00	76.96	3925.98

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	05/07/07	4002.94	74.76		0.00	0.00	74.76	3928.18
	06/27/07	4002.94	74.71		0.00	0.00	74.71	3928.23
	07/17/07	4002.94	74.56		0.00	0.00	74.56	3928.38
	08/21/07	4002.94	74.51		0.00	0.00	74.51	3928.43
	09/17/07	4002.94	74.43		0.00	0.00	74.43	3928.51
	10/16/07	4002.94	74.40	74.39	0.01	0.01	74.39	3928.55
	11/20/07	4002.94	74.35	74.33	0.02	0.02	74.33	3928.61
	12/21/07	4002.95	73.85	73.76	0.09	0.07	73.78	3929.17
	01/22/08	4002.95	73.58	73.56	0.02	0.02	73.56	3929.39
	02/27/08	4002.95	73.02		0.00	0.00	73.02	3929.93
	03/25/08	4002.95	74.12	74.08	0.04	0.03	74.09	3928.86
	04/29/08	4002.95	74.21	74.19	0.02	0.02	74.19	3928.76
	05/05/08	4002.95	74.23	74.21	0.02	0.02	74.21	3928.74
	06/10/08	4002.95	74.27	74.25	0.02	0.02	74.25	3928.70
	07/15/08	4002.95	73.83	73.79	0.04	0.03	73.80	3929.15
	08/19/08	4002.95	72.31		0.00	0.00	72.31	3930.64
	09/16/08	4002.95	72.42		0.00	0.00	72.42	3930.53
	10/15/08	4002.95	72.65	72.64	0.01	0.01	72.64	3930.31
	11/12/08	4002.95	72.26		0.00	0.00	72.26	3930.69
	12/11/08	4002.95	73.60		0.00	0.00	73.60	3929.35
	01/13/09	4002.95	73.81		0.00	0.00	73.81	3929.14
	02/11/09	4002.95	73.61		0.00	0.00	73.61	3929.34
	03/10/09	4002.95	73.41		0.00	0.00	73.41	3929.54
	04/13/09	4002.95	73.52		0.00	0.00	73.52	3929.43
	05/01/09	4002.95	73.31		0.00	0.00	73.31	3929.64
	06/08/09	4002.95	74.11	73.09	1.02	0.82	73.29	3929.66
	07/13/09	4002.95	76.65	72.72	3.93	3.14	73.51	3929.44
	08/10/09	4002.95	76.61	72.91	3.70	2.96	73.65	3929.30
	09/15/09	4002.95	75.24	73.09	2.15	1.72	73.52	3929.43
	10/06/09	4002.95	76.54	72.70	3.84	3.07	73.47	3929.48
	11/09/09	4002.95	73.65	72.70	0.95	0.76	72.89	3930.06
	12/23/09	4002.95	76.60	71.80	4.80	3.84	72.76	3930.19
	01/20/10	4002.95	77.50	71.91	5.59	4.47	73.03	3929.92
	02/09/10	4002.95	75.92		0.00		75.92	3927.03
	03/09/10	4002.95	80.35	72.27	8.08	6.46	73.89	3929.06
	04/12/10	4002.95	77.00		0.00	0.00	77.00	3925.95
	05/24/10	4002.95	78.03	71.92	6.11	4.89	73.14	3929.81
	06/14/10	4002.95	77.07	72.71	4.36	3.49	73.58	3929.37
	07/20/10	4002.95	76.39	73.15	3.24	2.59	73.80	3929.15
	08/11/10	4002.95	76.82	73.15	3.67	2.94	73.88	3929.07
	08/18/10	4002.95	76.90	72.91	3.99	3.19	73.71	3929.24
	09/21/10	4002.95	77.56	72.57	4.99	3.99	73.57	3929.38
	09/28/10	4002.95	75.06	73.15	1.91	1.53	73.53	3929.42
	10/20/10	4002.95	74.21	73.65	0.56	0.45	73.76	3929.19
	11/08/10	4002.95	74.95	73.45	1.50	1.20	73.75	3929.20
	12/07/10	4002.95	74.50	74.05	0.45	0.36	74.14	3928.81
	01/18/11	4002.95	75.77		0.00	0.00	75.77	3927.18
	02/08/11	4002.95	NM					
	03/08/11	4002.95	72.93	72.11	0.82	0.66	72.27	3930.68
	04/13/11	4002.95	72.81	72.05	0.76	0.61	72.20	3930.75
	05/23/11	4002.95	72.64	71.92	0.72	0.58	72.06	3930.89
	06/28/11	4002.95	78.75	73.90	4.85	3.88	74.87	3928.08

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/19/11	4002.95	79.42	73.79	5.63	4.50	74.92	3928.03
	08/31/11	4002.95	80.65	74.38	6.27	5.02	75.63	3927.32
	09/27/11	4002.95	80.77	73.81	6.96	5.57	75.20	3927.75
	10/24/11	4002.95	77.02	72.65	4.37	3.50	73.52	3929.43
	11/29/11	4002.95	80.73	73.95	6.78	5.42	75.31	3927.64
	12/23/11	4002.95	76.69		0.00		76.69	3926.26
MW-8	05/23/01	4000.72	77.00		0.00	0.00	77.00	3923.72
	05/24/01	4000.72	76.10		0.00	0.00	76.10	3924.62
	06/29/01	4000.72	76.12		0.00	0.00	76.12	3924.60
	12/13/01	4000.72	76.43		0.00	0.00	76.43	3924.29
	02/28/02	4000.72	76.40		0.00	0.00	76.40	3924.32
	03/22/02	4000.72	76.90		0.00	0.00	76.90	3923.82
	09/16/02	4000.72	77.02		0.00	0.00	77.02	3923.70
	09/20/02	4000.72	76.85		0.00	0.00	76.85	3923.87
	09/04/03	4000.72	77.82		0.00	0.00	77.82	3922.90
	04/05/04	4000.72	78.04		0.00	0.00	78.04	3922.68
	05/17/04	4000.72	78.08		0.00	0.00	78.08	3922.64
	05/24/04	4000.72	78.07		0.00	0.00	78.07	3922.65
	06/01/04	4000.72	78.17		0.00	0.00	78.17	3922.55
	06/07/04	4000.72	78.14		0.00	0.00	78.14	3922.58
	06/15/04	4000.72	78.29		0.00	0.00	78.29	3922.43
	06/21/04	4000.72	78.31		0.00	0.00	78.31	3922.41
	06/28/04	4000.72	78.65		0.00	0.00	78.65	3922.07
	07/06/04	4000.72	78.49		0.00	0.00	78.49	3922.23
	07/12/04	4000.72	78.61		0.00	0.00	78.61	3922.11
	07/19/04	4000.72	78.57		0.00	0.00	78.57	3922.15
	07/26/04	4000.72	78.79		0.00	0.00	78.79	3921.93
	08/02/04	4000.72	78.65		0.00	0.00	78.65	3922.07
	08/10/04	4000.72	78.79		0.00	0.00	78.79	3921.93
	08/16/04	4000.72	78.78		0.00	0.00	78.78	3921.94
	08/23/04	4000.72	78.53		0.00	0.00	78.53	3922.19
	08/30/04	4000.72	78.77		0.00	0.00	78.77	3921.95
	09/08/04	4000.72	78.87		0.00	0.00	78.87	3921.85
	10/08/04	4000.72	78.87		0.00	0.00	78.87	3921.85
	12/30/04	4000.72	78.91		0.00	0.00	78.91	3921.81
	01/17/05	4000.72	79.27		0.00	0.00	79.27	3921.45
	02/09/05	4000.72	79.15		0.00	0.00	79.15	3921.57
	03/09/05	4000.72	79.18		0.00	0.00	79.18	3921.54
	04/05/05	4000.72	78.84		0.00	0.00	78.84	3921.88
	05/10/05	4000.72	78.87		0.00	0.00	78.87	3921.85
	06/08/05	4000.72	79.11	78.82	0.29	0.23	78.88	3921.84
	07/05/05	4000.72	79.05	79.01	0.04	0.03	79.02	3921.70
	08/08/05	4000.72	79.69	78.82	0.87	0.70	78.99	3921.73
	09/14/05	4000.72	79.69	78.61	1.08	0.86	78.83	3921.89
	10/12/05	4000.72	79.73	78.66	1.07	0.86	78.87	3921.85
	11/09/05	4000.72	79.72	78.72	1.00	0.80	78.92	3921.80
	12/14/05	4000.72	79.47	78.51	0.96	0.77	78.70	3922.02
	01/12/06	4000.72	79.21	78.31	0.90	0.72	78.49	3922.23
	02/02/06	4000.72	79.13	78.27	0.86	0.69	78.44	3922.28
	03/07/06	4000.72	79.29	78.48	0.81	0.65	78.64	3922.08
	04/05/06	4000.72	79.17	78.48	0.69	0.55	78.62	3922.10
	05/08/06	4000.72	79.15	78.40	0.75	0.60	78.55	3922.17

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/05/06	4000.72	79.22	78.52	0.70	0.56	78.66	3922.06
	07/11/06	4000.72	79.23	78.56	0.67	0.54	78.69	3922.03
	08/16/06	4000.72	79.16	78.54	0.62	0.50	78.66	3922.06
	09/07/06	4000.72	78.96	78.36	0.60	0.48	78.48	3922.24
	10/11/06	4000.72	78.94	78.36	0.58	0.46	78.48	3922.24
	11/08/06	4000.72	78.78	78.20	0.58	0.46	78.32	3922.40
	12/04/06	4000.72	79.37	78.83	0.54	0.43	78.94	3921.78
	01/04/07	4000.72	78.61	78.09	0.52	0.42	78.19	3922.53
	02/27/07	4000.72	78.53	78.05	0.48	0.38	78.15	3922.57
	03/20/07	4000.72	78.79	78.32	0.47	0.38	78.41	3922.31
	04/17/07	4000.72	78.69	78.24	0.45	0.36	78.33	3922.39
	05/07/07	4000.72	78.91	78.46	0.45	0.36	78.55	3922.17
	06/27/07	4000.72	78.73	78.32	0.41	0.33	78.40	3922.32
	07/19/07	4000.72	78.61	78.22	0.39	0.31	78.30	3922.42
	08/21/07	4000.72	78.51	78.13	0.38	0.30	78.21	3922.51
	09/17/07	4000.72	78.53	78.16	0.37	0.30	78.23	3922.49
	10/16/07	4000.72	78.42	78.07	0.35	0.28	78.14	3922.58
	11/20/07	4000.72	78.47	78.14	0.33	0.26	78.21	3922.51
	12/21/07	4000.72	78.24	77.92	0.32	0.26	77.98	3922.74
	01/22/08	4000.72	78.64	78.34	0.30	0.24	78.40	3922.32
	02/27/08	4000.72	78.43	78.14	0.29	0.23	78.20	3922.52
	03/25/08	4000.72	78.22	77.92	0.30	0.24	77.98	3922.74
	04/29/08	4000.72	78.19	77.91	0.28	0.22	77.97	3922.75
	05/05/08	4000.72	78.14	77.87	0.27	0.22	77.92	3922.80
	06/10/08	4000.72	78.11	77.85	0.26	0.21	77.90	3922.82
	07/15/08	4000.72	78.08	77.82	0.26	0.21	77.87	3922.85
	08/19/08	4000.72	77.96	77.71	0.25	0.20	77.76	3922.96
	09/16/08	4000.72	78.18	77.94	0.24	0.19	77.99	3922.73
	10/15/08	4000.72	78.06	77.83	0.23	0.18	77.88	3922.84
	11/12/08	4000.72	77.76	77.54	0.22	0.18	77.58	3923.14
	12/11/08	4000.72	77.98	77.77	0.21	0.17	77.81	3922.91
	01/13/09	4000.72	78.20	78.00	0.20	0.16	78.04	3922.68
	02/11/09	4000.72	77.84	77.66	0.18	0.14	77.70	3923.02
	03/10/09	4000.72	77.64	77.46	0.18	0.14	77.50	3923.22
	04/13/09	4000.72	77.78	77.60	0.18	0.14	77.64	3923.08
	05/01/09	4000.72	77.61	77.44	0.17	0.14	77.47	3923.25
	06/08/09	4000.72	77.49	77.32	0.17	0.14	77.35	3923.37
	07/13/09	4000.72	77.61	77.45	0.16	0.13	77.48	3923.24
	08/10/09	4000.72	77.60	77.45	0.15	0.12	77.48	3923.24
	09/15/09	4000.72	77.37	77.22	0.15	0.12	77.25	3923.47
	10/06/09	4000.72	77.25	77.11	0.14	0.11	77.14	3923.58
	11/09/09	4000.72	77.47	77.32	0.15	0.12	77.35	3923.37
	12/23/09	4000.72	76.90	76.78	0.12	0.10	76.80	3923.92
	01/20/10	4000.72	76.84	76.71	0.13	0.10	76.74	3923.98
	02/09/10	4000.72	77.46	77.24	0.22	0.18	77.28	3923.44
	03/09/10	4000.72	77.07	76.94	0.13	0.10	76.97	3923.75
	04/12/10	4000.72	77.40	77.27	0.13	0.10	77.30	3923.42
	05/24/10	4000.72	77.19	77.08	0.11	0.09	77.10	3923.62
	06/14/10	4000.72	77.27	77.22	0.05	0.04	77.23	3923.49
	07/20/10	4000.72	77.40	77.30	0.10	0.08	77.32	3923.40
	08/11/10	4000.72	77.42	77.32	0.10	0.08	77.34	3923.38
	09/21/10	4000.72	77.25	77.16	0.09	0.07	77.18	3923.54

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	10/20/10	4000.72	77.38	71.30	6.08	4.86	72.52	3928.20
	11/08/10	4000.72	77.20	77.11	0.09	0.07	77.13	3923.59
	12/07/10	4000.72	77.22	77.14	0.08	0.06	77.16	3923.56
	01/18/11	4000.72	77.15	77.06	0.09	0.07	77.08	3923.64
	02/08/11	4000.72	NM					
	03/08/11	4000.72	76.75	76.65	0.10	0.08	76.67	3924.05
	04/13/11	4000.72	76.82	76.75	0.07	0.06	76.76	3923.96
	05/23/11	4000.72	76.75	76.67	0.08	0.06	76.69	3924.03
	06/28/11	4000.72	77.22	77.15	0.07	0.06	77.16	3923.56
	07/19/11	4000.72	77.22	77.15	0.07	0.06	77.16	3923.56
	08/31/11	4000.72	77.27	77.22	0.05	0.04	77.23	3923.49
	09/27/11	4000.72	77.41	77.31	0.10	0.08	77.33	3923.39
	10/24/11	4000.72	77.60	77.55	0.05	0.04	77.56	3923.16
	11/29/11	4000.72	77.85	77.81	0.04	0.03	77.82	3922.90
	12/23/11	4000.72	77.75	77.72	0.03	0.02	77.73	3922.99
MW-9	05/23/01	4003.11	83.00		0.00	0.00	83.00	3920.11
	05/24/01	4003.11	83.63		0.00	0.00	83.63	3919.48
	06/29/01	4003.11	83.55		0.00	0.00	83.55	3919.56
	12/13/01	4003.11	83.91		0.00	0.00	83.91	3919.20
	03/22/02	4003.11	84.08		0.00	0.00	84.08	3919.03
	09/16/02	4003.11	84.44		0.00	0.00	84.44	3918.67
	09/20/02	4003.11	84.44		0.00	0.00	84.44	3918.67
	04/05/04	4003.11	84.58		0.00	0.00	84.58	3918.53
	05/17/04	4003.11	89.30	84.65	4.65	3.72	85.58	3917.53
	05/24/04	4003.11	89.29	84.57	4.72	3.78	85.51	3917.60
	06/01/04	4003.11	89.31	84.67	4.64	3.71	85.60	3917.51
	06/07/04	4003.11	89.29	84.59	4.70	3.76	85.53	3917.58
	06/15/04	4003.11	89.37	84.70	4.67	3.74	85.63	3917.48
	06/21/04	4003.11	89.38	84.69	4.69	3.75	85.63	3917.48
	06/28/04	4003.11	89.51	84.92	4.59	3.67	85.84	3917.27
	07/06/04	4003.11	89.42	84.83	4.59	3.67	85.75	3917.36
	07/12/04	4003.11	89.51	84.89	4.62	3.70	85.81	3917.30
	07/19/04	4003.11	89.47	84.86	4.61	3.69	85.78	3917.33
	07/26/04	4003.11	89.58	85.00	4.58	3.66	85.92	3917.19
	08/02/04	4003.11	89.44	84.93	4.51	3.61	85.83	3917.28
	08/10/04	4003.11	89.53	85.10	4.43	3.54	85.99	3917.12
	08/16/04	4003.11	89.50	85.03	4.47	3.58	85.92	3917.19
	08/23/04	4003.11	89.27	84.87	4.40	3.52	85.75	3917.36
	08/30/04	4003.11	89.45	85.17	4.28	3.42	86.03	3917.08
	09/08/04	4003.11	89.48	85.12	4.36	3.49	85.99	3917.12
	10/08/04	4003.11	89.39	85.14	4.25	3.40	85.99	3917.12
	12/30/04	4003.11	89.24	85.25	3.99	3.19	86.05	3917.06
	01/17/05	4003.11	89.59	85.47	4.12	3.30	86.29	3916.82
	03/09/05	4003.11	89.58	85.47	4.11	3.29	86.29	3916.82
	04/05/05	4003.11	89.30	85.30	4.00	3.20	86.10	3917.01
	05/10/05	4003.11	89.42	85.29	4.13	3.30	86.12	3916.99
	06/08/05	4003.11	89.54	85.25	4.29	3.43	86.11	3917.00
	07/05/05	4003.11	89.72	85.53	4.19	3.35	86.37	3916.74
	08/08/05	4003.11	89.68	85.45	4.23	3.38	86.30	3916.81
	09/14/05	4003.11	89.63	85.44	4.19	3.35	86.28	3916.83
	10/12/05	4003.11	89.82	85.45	4.37	3.50	86.32	3916.79
	11/09/05	4003.11	89.88	85.47	4.41	3.53	86.35	3916.76

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	12/14/05	4003.11	89.79	85.30	4.49	3.59	86.20	3916.91
	01/12/06	4003.11	89.73	85.18	4.55	3.64	86.09	3917.02
	02/02/06	4003.11	89.72	85.12	4.60	3.68	86.04	3917.07
	03/07/06	4003.11	89.84	85.22	4.62	3.70	86.14	3916.97
	04/05/06	4003.11	89.79	84.16	5.63	4.50	85.29	3917.82
	05/08/06	4003.11	89.68	85.05	4.63	3.70	85.98	3917.13
	06/05/06	4003.11	89.75	85.11	4.64	3.71	86.04	3917.07
	07/11/06	4003.11	89.75	85.13	4.62	3.70	86.05	3917.06
	08/16/06	4003.11	89.66	85.25	4.41	3.53	86.13	3916.98
	09/07/06	4003.11	89.51	85.20	4.31	3.45	86.06	3917.05
	10/11/06	4003.11	88.38	85.24	3.14	2.51	85.87	3917.24
	11/08/06	4003.11	89.26	85.15	4.11	3.29	85.97	3917.14
	12/04/06	4003.11	89.62	85.62	4.00	3.20	86.42	3916.69
	01/04/07	4003.11	89.14	85.18	3.96	3.17	85.97	3917.14
	02/27/07	4003.11	89.12	85.15	3.97	3.18	85.94	3917.17
	03/20/07	4003.11	89.11	85.32	3.79	3.03	86.08	3917.03
	04/17/07	4003.11	89.06	85.19	3.87	3.10	85.96	3917.15
	05/07/07	4003.11	89.15	85.25	3.90	3.12	86.03	3917.08
	06/27/07	4003.11	88.98	85.12	3.86	3.09	85.89	3917.22
	07/19/07	4003.11	89.01	85.04	3.97	3.18	85.83	3917.28
	08/21/07	4003.11	89.00	84.89	4.11	3.29	85.71	3917.40
	09/17/07	4003.11	88.97	84.94	4.03	3.22	85.75	3917.36
	10/16/07	4003.11	89.08	84.76	4.32	3.46	85.62	3917.49
	11/20/07	4003.11	89.10	84.77	4.33	3.46	85.64	3917.47
	12/21/07	4003.11	89.05	84.49	4.56	3.65	85.40	3917.71
	01/22/08	4003.11	89.18	84.79	4.39	3.51	85.67	3917.44
	02/27/08	4003.11	89.27	84.87	4.40	3.52	85.75	3917.36
	03/25/08	4003.11	88.02	84.89	3.13	2.50	85.52	3917.59
	04/29/08	4003.11	88.78	84.68	4.10	3.28	85.50	3917.61
	05/05/08	4003.11	88.88	84.68	4.20	3.36	85.52	3917.59
	06/10/08	4003.11	88.60	84.72	3.88	3.10	85.50	3917.61
	07/15/08	4003.11	88.15	84.50	3.65	2.92	85.23	3917.88
	08/19/08	4003.11	87.96	84.40	3.56	2.85	85.11	3918.00
	09/16/08	4003.11	87.94	84.49	3.45	2.76	85.18	3917.93
	10/15/08	4003.11	86.74	85.10	1.64	1.31	85.43	3917.68
	11/12/08	4003.11	86.13	84.95	1.18	0.94	85.19	3917.92
	12/11/08	4003.11	86.07	85.07	1.00	0.80	85.27	3917.84
	01/13/09	4003.11	86.06	85.21	0.85	0.68	85.38	3917.73
	02/11/09	4003.11	85.56	85.11	0.45	0.36	85.20	3917.91
	03/10/09	4003.11	86.22	84.62	1.60	1.28	84.94	3918.17
	04/13/09	4003.11	86.12	84.71	1.41	1.13	84.99	3918.12
	05/01/09	4003.11	85.76	84.50	1.26	1.01	84.75	3918.36
	06/08/09	4003.11	85.51	84.55	0.96	0.77	84.74	3918.37
	07/13/09	4003.11	85.41	84.60	0.81	0.65	84.76	3918.35
	08/10/09	4003.11	85.37	84.67	0.70	0.56	84.81	3918.30
	09/15/09	4003.11	85.12	84.57	0.55	0.44	84.68	3918.43
	10/06/09	4003.11	85.04	84.57	0.47	0.38	84.66	3918.45
	11/09/09	4003.11	85.10	84.60	0.50	0.40	84.70	3918.41
	12/23/09	4003.11	84.67	84.20	0.47	0.38	84.29	3918.82
	01/20/10	4003.11	84.60	84.12	0.48	0.38	84.22	3918.89
	02/09/10	4003.11	85.06	84.66	0.40	0.32	84.74	3918.37
	03/09/10	4003.11	84.60	84.35	0.25	0.20	84.40	3918.71

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	04/12/10	4003.11	84.78	84.60	0.18	0.14	84.64	3918.47
	05/24/10	4003.11	84.66	84.47	0.19	0.15	84.51	3918.60
	06/14/10	4003.11	84.64	84.57	0.07	0.06	84.58	3918.53
	07/20/10	4003.11	84.75	84.65	0.10	0.08	84.67	3918.44
	08/11/10	4003.11	84.76	84.58	0.18	0.14	84.62	3918.49
	09/21/10	4003.11	84.60	84.47	0.13	0.10	84.50	3918.61
	11/08/10	4003.11	84.65	84.51	0.14	0.11	84.54	3918.57
	12/07/10	4003.11	84.57		0.00		84.57	3918.54
	01/18/11	4003.11	84.71	84.65	0.06	0.05	84.66	3918.45
	02/08/11	4003.11	84.63	84.38	0.25	0.20	84.43	3918.68
	03/08/11	4003.11	84.65	84.47	0.18	0.14	84.51	3918.60
	04/13/11	4003.11	84.65	84.62	0.03	0.02	84.63	3918.48
	05/23/11	4003.11	84.71	84.59	0.12	0.10	84.61	3918.50
	06/28/11	4003.11	85.05	84.85	0.20	0.16	84.89	3918.22
	07/19/11	4003.11	84.98	84.73	0.25	0.20	84.78	3918.33
	08/31/11	4003.11	84.86	84.65	0.21	0.17	84.69	3918.42
	09/27/11	4003.11	84.92	84.72	0.20	0.16	84.76	3918.35
	10/24/11	4003.11	85.01	84.77	0.24	0.19	84.82	3918.29
	11/29/11	4003.11	85.20	84.97	0.23	0.18	85.02	3918.09
	12/23/11	4003.11	85.17	84.91	0.26	0.21	84.96	3918.15
MW-10	12/13/01	4000.47	70.39		0.00	0.00	70.39	3930.08
	03/22/02	4000.47	70.76		0.00	0.00	70.76	3929.71
	09/16/02	4000.47	70.92		0.00	0.00	70.92	3929.55
	09/20/02	4000.47	70.79		0.00	0.00	70.79	3929.68
	09/04/03	4000.47	71.69		0.00	0.00	71.69	3928.78
	04/05/04	4000.47	71.87		0.00	0.00	71.87	3928.60
	05/17/04	4000.47	71.92		0.00	0.00	71.92	3928.55
	05/24/04	4000.47	71.85		0.00	0.00	71.85	3928.62
	06/01/04	4000.47	71.90		0.00	0.00	71.90	3928.57
	06/07/04	4000.47	71.83		0.00	0.00	71.83	3928.64
	06/15/04	4000.47	71.97		0.00	0.00	71.97	3928.50
	06/21/04	4000.47	71.94		0.00	0.00	71.94	3928.53
	06/28/04	4000.47	72.26		0.00	0.00	72.26	3928.21
	07/06/04	4000.47	72.14		0.00	0.00	72.14	3928.33
	07/12/04	4000.47	72.23		0.00	0.00	72.23	3928.24
	07/19/04	4000.47	72.19		0.00	0.00	72.19	3928.28
	07/26/04	4000.47	72.37		0.00	0.00	72.37	3928.10
	08/02/04	4000.47	72.25		0.00	0.00	72.25	3928.22
	08/10/04	4000.47	72.39		0.00	0.00	72.39	3928.08
	08/16/04	4000.47	72.36		0.00	0.00	72.36	3928.11
	08/23/04	4000.47	72.13		0.00	0.00	72.13	3928.34
	08/30/04	4000.47	72.37		0.00	0.00	72.37	3928.10
	09/08/04	4000.47	72.45		0.00	0.00	72.45	3928.02
	10/08/04	4000.47	72.45		0.00	0.00	72.45	3928.02
	12/30/04	4000.47	72.53		0.00	0.00	72.53	3927.94
	01/17/05	4000.47	72.86		0.00	0.00	72.86	3927.61
	02/09/05	4000.47	72.82		0.00	0.00	72.82	3927.65
	03/09/05	4000.47	72.86		0.00	0.00	72.86	3927.61
	04/05/05	4000.47	72.57		0.00	0.00	72.57	3927.90
	05/10/05	4000.47	72.63		0.00	0.00	72.63	3927.84
	06/08/05	4000.47	72.74		0.00	0.00	72.74	3927.73
	07/05/05	4000.47	73.01		0.00	0.00	73.01	3927.46

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	08/08/05	4000.47	72.92		0.00	0.00	72.92	3927.55
	09/14/05	4000.47	72.86		0.00	0.00	72.86	3927.61
	10/12/05	4000.47	72.97		0.00	0.00	72.97	3927.50
	11/09/05	4000.47	73.04		0.00	0.00	73.04	3927.43
	12/14/05	4000.47	72.84		0.00	0.00	72.84	3927.63
	01/12/06	4000.47	72.64		0.00	0.00	72.64	3927.83
	02/02/06	4000.47	72.64		0.00	0.00	72.64	3927.83
	03/07/06	4000.47	73.75		0.00	0.00	73.75	3926.72
	04/05/06	4000.47	72.66		0.00	0.00	72.66	3927.81
	05/08/06	4000.47	72.58		0.00	0.00	72.58	3927.89
	06/05/06	4000.47	72.69		0.00	0.00	72.69	3927.78
	07/11/06	4000.47	72.74		0.00	0.00	72.74	3927.73
	08/16/06	4000.47	72.68		0.00	0.00	72.68	3927.79
	09/07/06	4000.47	72.43		0.00	0.00	72.43	3928.04
	10/11/06	4000.47	72.36		0.00	0.00	72.36	3928.11
	11/08/06	4000.47	72.17		0.00	0.00	72.17	3928.30
	12/04/06	4000.47	72.64		0.00	0.00	72.64	3927.83
	01/04/07	4000.47	71.95		0.00	0.00	71.95	3928.52
	02/27/07	4000.47	71.93		0.00	0.00	71.93	3928.54
	03/20/07	4000.47	72.09		0.00	0.00	72.09	3928.38
	04/17/07	4000.47	71.88		0.00	0.00	71.88	3928.59
	05/07/07	4000.47	72.10		0.00	0.00	72.10	3928.37
	06/27/07	4000.47	72.00		0.00	0.00	72.00	3928.47
	07/19/07	4000.47	71.89		0.00	0.00	71.89	3928.58
	08/21/07	4000.47	71.86		0.00	0.00	71.86	3928.61
	09/17/07	4000.47	71.82		0.00	0.00	71.82	3928.65
	10/16/07	4000.47	71.75		0.00	0.00	71.75	3928.72
	11/20/07	4000.47	71.79		0.00	0.00	71.79	3928.68
	12/21/07	4000.47	71.57		0.00	0.00	71.57	3928.90
	01/22/08	4000.47	72.00		0.00	0.00	72.00	3928.47
	02/27/08	4000.47	71.86		0.00	0.00	71.86	3928.61
	03/25/08	4000.47	71.69		0.00	0.00	71.69	3928.78
	04/29/08	4000.47	71.65		0.00	0.00	71.65	3928.82
	05/05/08	4000.47	71.64		0.00	0.00	71.64	3928.83
	06/10/08	4000.47	71.66		0.00	0.00	71.66	3928.81
	07/15/08	4000.47	71.66		0.00	0.00	71.66	3928.81
	08/19/08	4000.47	71.66		0.00	0.00	71.66	3928.81
	09/16/08	4000.47	71.90		0.00	0.00	71.90	3928.57
	10/15/08	4000.47	71.84		0.00	0.00	71.84	3928.63
	11/12/08	4000.47	71.60		0.00	0.00	71.60	3928.87
	12/11/08	4000.47	71.77		0.00	0.00	71.77	3928.70
	01/13/09	4000.47	71.98		0.00	0.00	71.98	3928.49
	02/11/09	4000.47	71.73		0.00	0.00	71.73	3928.74
	03/10/09	4000.47	71.50		0.00	0.00	71.50	3928.97
	04/13/09	4000.47	71.63		0.00	0.00	71.63	3928.84
	05/01/09	4000.47	71.76		0.00	0.00	71.76	3928.71
	06/08/09	4000.47	71.36		0.00	0.00	71.36	3929.11
	07/13/09	4000.47	71.43		0.00	0.00	71.43	3929.04
	08/10/09	4000.47	71.47		0.00	0.00	71.47	3929.00
	09/15/09	4000.47	71.34		0.00	0.00	71.34	3929.13
	10/06/09	4000.47	71.29		0.00	0.00	71.29	3929.18
	11/09/09	4000.47	71.52		0.00	0.00	71.52	3928.95

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	12/23/09	4000.47	71.08		0.00	0.00	71.08	3929.39
	01/20/10	4000.47	71.03		0.00	0.00	71.03	3929.44
	02/09/10	4000.47	71.60		0.00	0.00	71.60	3928.87
	03/09/10	4000.47	71.25		0.00	0.00	71.25	3929.22
	04/12/10	4000.47	71.53		0.00	0.00	71.53	3928.94
	05/24/10	4000.47	71.39		0.00	0.00	71.39	3929.08
	06/14/10	4000.47	71.51		0.00	0.00	71.51	3928.96
	07/20/10	4000.47	70.60		0.00	0.00	70.60	3929.87
	08/11/10	4000.47	71.65		0.00	0.00	71.65	3928.82
	09/21/10	4000.47	71.59		0.00	0.00	71.59	3928.88
	10/20/10	4000.47	71.78		0.00	0.00	71.78	3928.69
	11/08/10	4000.47	71.61		0.00	0.00	71.61	3928.86
	12/07/10	4000.47	71.69		0.00	0.00	71.69	3928.78
	01/18/11	4000.47	71.77		0.00	0.00	71.77	3928.70
	02/08/11	4000.47	NM					
	03/08/11	4000.47	71.57		0.00	0.00	71.57	3928.90
	04/13/11	4000.47	71.72		0.00	0.00	71.72	3928.75
	05/23/11	4000.47	71.68		0.00	0.00	71.68	3928.79
	06/28/11	4000.47	71.98		0.00	0.00	71.98	3928.49
	07/19/11	4000.47	71.90		0.00	0.00	71.90	3928.57
	08/31/11	4000.47	71.84		0.00	0.00	71.84	3928.63
	09/27/11	4000.47	71.94		0.00	0.00	71.94	3928.53
	10/24/11	4000.47	72.06		0.00	0.00	72.06	3928.41
	11/29/11	4000.47	72.26		0.00	0.00	72.26	3928.21
	12/23/11	4000.47	72.18		0.00	0.00	72.18	3928.29
MW-11	12/13/01	4015.54	81.38		0.00	0.00	81.38	3934.16
	03/22/02	4015.54	83.60		0.00	0.00	83.60	3931.94
	09/16/02	4015.54	83.82		0.00	0.00	83.82	3931.72
	09/20/02	4015.54	83.70		0.00	0.00	83.70	3931.84
	09/04/03	4015.54	84.50		0.00	0.00	84.50	3931.04
	04/05/04	4015.54	84.54		0.00	0.00	84.54	3931.00
	05/17/04	4015.54	84.64		0.00	0.00	84.64	3930.90
	05/24/04	4015.54	84.55		0.00	0.00	84.55	3930.99
	06/01/04	4015.54	84.61		0.00	0.00	84.61	3930.93
	06/07/04	4015.54	84.58		0.00	0.00	84.58	3930.96
	06/15/04	4015.54	84.69		0.00	0.00	84.69	3930.85
	06/21/04	4015.54	84.72		0.00	0.00	84.72	3930.82
	06/28/04	4015.54	84.99		0.00	0.00	84.99	3930.55
	07/06/04	4015.54	84.83		0.00	0.00	84.83	3930.71
	07/12/04	4015.54	84.96		0.00	0.00	84.96	3930.58
	07/19/04	4015.54	84.90		0.00	0.00	84.90	3930.64
	07/26/04	4015.54	85.11		0.00	0.00	85.11	3930.43
	08/02/04	4015.54	84.96		0.00	0.00	84.96	3930.58
	08/10/04	4015.54	85.09		0.00	0.00	85.09	3930.45
	08/16/04	4015.54	85.06		0.00	0.00	85.06	3930.48
	08/23/04	4015.54	84.83		0.00	0.00	84.83	3930.71
	08/30/04	4015.54	85.06		0.00	0.00	85.06	3930.48
	09/08/04	4015.54	85.14		0.00	0.00	85.14	3930.40
	10/08/04	4015.54	85.12		0.00	0.00	85.12	3930.42
	12/30/04	4015.54	85.12		0.00	0.00	85.12	3930.42
	01/17/05	4015.54	85.52		0.00	0.00	85.52	3930.02
	02/09/05	4015.54	85.33		0.00	0.00	85.33	3930.21

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	03/09/05	4015.54	85.45		0.00	0.00	85.45	3930.09
	04/05/05	4015.54	85.15		0.00	0.00	85.15	3930.39
	05/10/05	4015.54	85.21		0.00	0.00	85.21	3930.33
	06/08/05	4015.54	85.31		0.00	0.00	85.31	3930.23
	07/05/05	4015.54	85.59		0.00	0.00	85.59	3929.95
	08/08/05	4015.54	85.50		0.00	0.00	85.50	3930.04
	09/14/05	4015.54	85.42		0.00	0.00	85.42	3930.12
	10/12/05	4015.54	85.54		0.00	0.00	85.54	3930.00
	11/09/05	4015.54	85.62		0.00	0.00	85.62	3929.92
	12/14/05	4015.54	85.41		0.00	0.00	85.41	3930.13
	01/12/06	4015.54	85.26		0.00	0.00	85.26	3930.28
	02/02/06	4015.54	85.23		0.00	0.00	85.23	3930.31
	03/07/06	4015.54	85.44		0.00	0.00	85.44	3930.10
	04/05/06	4015.54	85.38		0.00	0.00	85.38	3930.16
	05/08/06	4015.54	85.33		0.00	0.00	85.33	3930.21
	06/05/06	4015.54	85.47		0.00	0.00	85.47	3930.07
	07/11/06	4015.54	85.48		0.00	0.00	85.48	3930.06
	08/16/06	4015.54	85.52		0.00	0.00	85.52	3930.02
	09/07/06	4015.54	85.43		0.00	0.00	85.43	3930.11
	10/11/06	4015.54	85.41		0.00	0.00	85.41	3930.13
	11/08/06	4015.54	85.31		0.00	0.00	85.31	3930.23
	12/04/06	4015.54	85.88		0.00	0.00	85.88	3929.66
	01/04/07	4015.54	85.20		0.00	0.00	85.20	3930.34
	02/27/07	4015.54	85.16		0.00	0.00	85.16	3930.38
	03/20/07	4015.54	85.33		0.00	0.00	85.33	3930.21
	04/17/07	4015.54	85.17		0.00	0.00	85.17	3930.37
	05/07/07	4015.54	85.40		0.00	0.00	85.40	3930.14
	06/27/07	4015.54	85.27		0.00	0.00	85.27	3930.27
	07/19/07	4015.54	85.13		0.00	0.00	85.13	3930.41
	08/21/07	4015.54	85.08		0.00	0.00	85.08	3930.46
	09/17/07	4015.54	85.05		0.00	0.00	85.05	3930.49
	10/16/07	4015.54	84.97		0.00	0.00	84.97	3930.57
	11/20/07	4015.54	85.02		0.00	0.00	85.02	3930.52
	12/21/07	4015.54	84.81		0.00	0.00	84.81	3930.73
	01/22/08	4015.54	85.27		0.00	0.00	85.27	3930.27
	02/27/08	4015.54	85.20		0.00	0.00	85.20	3930.34
	03/25/08	4015.54	84.99		0.00	0.00	84.99	3930.55
	04/29/08	4015.54	84.98		0.00	0.00	84.98	3930.56
	05/05/08	4015.54	84.93		0.00	0.00	84.93	3930.61
	06/10/08	4015.54	84.94		0.00	0.00	84.94	3930.60
	07/15/08	4015.54	84.90		0.00	0.00	84.90	3930.64
	08/19/08	4015.54	84.88		0.00	0.00	84.88	3930.66
	09/16/08	4015.54	85.13		0.00	0.00	85.13	3930.41
	10/15/08	4015.54	85.03		0.00	0.00	85.03	3930.51
	11/12/08	4015.54	84.72		0.00	0.00	84.72	3930.82
	12/11/08	4015.54	84.92		0.00	0.00	84.92	3930.62
	01/13/09	4015.54	85.15		0.00	0.00	85.15	3930.39
	02/11/09	4015.54	84.85		0.00	0.00	84.85	3930.69
	03/10/09	4015.54	84.63		0.00	0.00	84.63	3930.91
	04/13/09	4015.54	84.79		0.00	0.00	84.79	3930.75
	05/01/09	4015.54	84.64		0.00	0.00	84.64	3930.90
	06/08/09	4015.54	84.51		0.00	0.00	84.51	3931.03

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/13/09	4015.54	84.61		0.00	0.00	84.61	3930.93
	08/10/09	4015.54	84.60		0.00	0.00	84.60	3930.94
	09/15/09	4015.54	84.44		0.00	0.00	84.44	3931.10
	10/06/09	4015.54	84.34		0.00	0.00	84.34	3931.20
	11/09/09	4015.54	84.58		0.00	0.00	84.58	3930.96
	12/23/09	4015.54	84.06		0.00	0.00	84.06	3931.48
	01/20/10	4015.54	83.99		0.00	0.00	83.99	3931.55
	02/09/10	4015.54	84.64		0.00	0.00	84.64	3930.90
	03/09/10	4015.54	84.23		0.00	0.00	84.23	3931.31
	04/12/10	4015.54	84.54		0.00	0.00	84.54	3931.00
	05/24/10	4015.54	84.34		0.00	0.00	84.34	3931.20
	06/14/10	4015.54	84.48		0.00	0.00	84.48	3931.06
	07/20/10	4015.54	84.54		0.00	0.00	84.54	3931.00
	08/11/10	4015.54	84.57		0.00	0.00	84.57	3930.97
	09/21/10	4015.54	84.56		0.00	0.00	84.56	3930.98
	10/20/10	4015.54	84.62		0.00	0.00	84.62	3930.92
	11/08/10	4015.54	84.48		0.00	0.00	84.48	3931.06
	12/07/10	4015.54	84.58		0.00	0.00	84.58	3930.96
	01/18/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	02/08/11	4015.54	84.38		0.00	0.00	84.38	3931.16
	03/08/11	4015.54	84.40		0.00	0.00	84.40	3931.14
	04/13/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	05/23/11	4015.54	84.54		0.00	0.00	84.54	3931.00
	06/28/11	4015.54	84.85		0.00	0.00	84.85	3930.69
	07/19/11	4015.54	84.73		0.00	0.00	84.73	3930.81
	08/31/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	09/27/11	4015.54	84.66		0.00	0.00	84.66	3930.88
	10/24/11	4015.54	84.79		0.00	0.00	84.79	3930.75
	11/29/11	4015.54	84.99		0.00	0.00	84.99	3930.55
	12/23/11	4015.54	84.83		0.00	0.00	84.83	3930.71
MW-12	12/13/01	4022.71	91.43		0.00	0.00	91.43	3931.28
	03/22/02	4022.71	94.38		0.00	0.00	94.38	3928.33
	09/16/02	4022.71	94.51		0.00	0.00	94.51	3928.20
	09/20/02	4022.71	94.31		0.00	0.00	94.31	3928.40
	04/05/04	4022.71	94.59		0.00	0.00	94.59	3928.12
	05/17/04	4022.71	94.60		0.00	0.00	94.60	3928.11
	05/24/04	4022.71	94.51		0.00	0.00	94.51	3928.20
	06/01/04	4022.71	94.53		0.00	0.00	94.53	3928.18
	06/07/04	4022.71	94.45		0.00	0.00	94.45	3928.26
	06/15/04	4022.71	94.56		0.00	0.00	94.56	3928.15
	06/21/04	4022.71	94.57		0.00	0.00	94.57	3928.14
	06/28/04	4022.71	94.84		0.00	0.00	94.84	3927.87
	07/06/04	4022.71	94.70		0.00	0.00	94.70	3928.01
	07/12/04	4022.71	94.80		0.00	0.00	94.80	3927.91
	07/19/04	4022.71	94.74		0.00	0.00	94.74	3927.97
	07/26/04	4022.71	94.92		0.00	0.00	94.92	3927.79
	08/02/04	4022.71	94.77		0.00	0.00	94.77	3927.94
	08/10/04	4022.71	94.88		0.00	0.00	94.88	3927.83
	08/16/04	4022.71	94.86		0.00	0.00	94.86	3927.85
	08/23/04	4022.71	94.60		0.00	0.00	94.60	3928.11
	08/30/04	4022.71	94.82		0.00	0.00	94.82	3927.89
	09/08/04	4022.71	94.89		0.00	0.00	94.89	3927.82

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	10/08/04	4022.71	94.83		0.00	0.00	94.83	3927.88
	12/30/04	4022.71	94.72		0.00	0.00	94.72	3927.99
	01/17/05	4022.71	95.06		0.00	0.00	95.06	3927.65
	02/09/05	4022.71	94.94		0.00	0.00	94.94	3927.77
	03/09/05	4022.71	94.92		0.00	0.00	94.92	3927.79
	04/05/05	4022.71	94.58		0.00	0.00	94.58	3928.13
	05/10/05	4022.71	94.61		0.00	0.00	94.61	3928.10
	06/08/05	4022.71	94.58		0.00	0.00	94.58	3928.13
	07/05/05	4022.71	94.84		0.00	0.00	94.84	3927.87
	08/08/05	4022.71	94.78		0.00	0.00	94.78	3927.93
	09/14/05	4022.71	94.71		0.00	0.00	94.71	3928.00
	10/12/05	4022.71	94.82		0.00	0.00	94.82	3927.89
	11/09/05	4022.71	94.92		0.00	0.00	94.92	3927.79
	12/14/05	4022.71	94.70		0.00	0.00	94.70	3928.01
	01/12/06	4022.71	94.50		0.00	0.00	94.50	3928.21
	02/02/06	4022.71	94.58		0.00	0.00	94.58	3928.13
	03/07/06	4022.71	94.76		0.00	0.00	94.76	3927.95
	04/05/06	4022.71	94.67		0.00	0.00	94.67	3928.04
	05/08/06	4022.71	94.61		0.00	0.00	94.61	3928.10
	06/05/06	4022.71	94.77		0.00	0.00	94.77	3927.94
	07/11/06	4022.71	94.84		0.00	0.00	94.84	3927.87
	08/16/06	4022.71	94.93		0.00	0.00	94.93	3927.78
	09/07/06	4022.71	94.86		0.00	0.00	94.86	3927.85
	10/11/06	4022.71	94.86		0.00	0.00	94.86	3927.85
	11/08/06	4022.71	94.72		0.00	0.00	94.72	3927.99
	12/04/06	4022.71	95.35		0.00	0.00	95.35	3927.36
	01/04/07	4022.71	94.68		0.00	0.00	94.68	3928.03
	02/27/07	4022.71	94.73		0.00	0.00	94.73	3927.98
	03/20/07	4022.71	94.93		0.00	0.00	94.93	3927.78
	04/17/07	4022.71	94.73		0.00	0.00	94.73	3927.98
	05/07/07	4022.71	94.95		0.00	0.00	94.95	3927.76
	06/27/07	4022.71	94.42		0.00	0.00	94.42	3928.29
	07/19/07	4022.71	94.71		0.00	0.00	94.71	3928.00
	08/21/07	4022.71	94.77		0.00	0.00	94.77	3927.94
	09/17/07	4022.71	94.90		0.00	0.00	94.90	3927.81
	10/16/07	4022.71	98.83		0.00	0.00	98.83	3923.88
	11/20/07	4022.71	99.07		0.00	0.00	99.07	3923.64
	12/21/07	4022.53	98.82		0.00	0.00	98.82	3923.71
	01/22/08	4022.53	97.14		0.00	0.00	97.14	3925.39
	02/27/08	4022.53	97.32		0.00	0.00	97.32	3925.21
	03/25/08	4022.53	98.91		0.00	0.00	98.91	3923.62
	04/29/08	4022.53	98.87		0.00	0.00	98.87	3923.66
	05/05/08	4022.53	98.82		0.00	0.00	98.82	3923.71
	06/10/08	4022.53	98.63		0.00	0.00	98.63	3923.90
	07/15/08	4022.53	98.65		0.00	0.00	98.65	3923.88
	08/19/08	4022.53	98.43		0.00	0.00	98.43	3924.10
	09/16/08	4022.53	98.92		0.00	0.00	98.92	3923.61
	10/15/08	4022.53	98.84		0.00	0.00	98.84	3923.69
	11/12/08	4022.53	98.52		0.00	0.00	98.52	3924.01
	12/11/08	4022.53	98.48		0.00	0.00	98.48	3924.05
	01/13/09	4022.53	98.86		0.00	0.00	98.86	3923.67
	02/11/09	4022.53	98.52		0.00	0.00	98.52	3924.01

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	03/10/09	4022.53	98.29		0.00	0.00	98.29	3924.24
	04/13/09	4022.53	98.44		0.00	0.00	98.44	3924.09
	05/01/09	4022.53	98.27		0.00	0.00	98.27	3924.26
	06/08/09	4022.53	98.25		0.00	0.00	98.25	3924.28
	07/13/09	4022.53	98.28		0.00	0.00	98.28	3924.25
	08/10/09	4022.53	98.27		0.00	0.00	98.27	3924.26
	09/15/09	4022.53	98.04		0.00	0.00	98.04	3924.49
	10/06/09	4022.53	94.93		0.00	0.00	94.93	3927.60
	11/09/09	4022.53	97.97		0.00	0.00	97.97	3924.56
	12/23/09	4022.53	97.47		0.00	0.00	97.47	3925.06
	01/20/10	4022.53	97.36		0.00	0.00	97.36	3925.17
	02/09/10	4022.53	97.98		0.00	0.00	97.98	3924.55
	03/09/10	4022.53	97.58		0.00	0.00	97.58	3924.95
	04/12/10	4022.53	97.85		0.00	0.00	97.85	3924.68
	05/24/10	4022.53	97.57		0.00	0.00	97.57	3924.96
	06/14/10	4022.53	98.32		0.00	0.00	98.32	3924.21
	07/20/10	4022.53	98.23		0.00	0.00	98.23	3924.30
	08/11/10	4022.53	98.22		0.00	0.00	98.22	3924.31
	09/21/10	4022.53	98.01		0.00	0.00	98.01	3924.52
	10/20/10	4022.53	98.13		0.00	0.00	98.13	3924.40
	11/08/10	4022.53	97.97		0.00	0.00	97.97	3924.56
	12/07/10	4022.53	97.93		0.00	0.00	97.93	3924.60
	01/18/11	4022.53	97.81		0.00	0.00	97.81	3924.72
	02/08/11	4022.53	96.88		0.00	0.00	96.88	3925.65
	03/08/11	4022.53	94.42		0.00	0.00	94.42	3928.11
	04/13/11	4022.53	94.36		0.00	0.00	94.36	3928.17
	05/23/11	4022.53	94.20		0.00	0.00	94.20	3928.33
	06/28/11	4022.53	97.80		0.00	0.00	97.80	3924.73
	07/19/11	4022.53	97.74		0.00	0.00	97.74	3924.79
	08/31/11	4022.53	97.65		0.00	0.00	97.65	3924.88
	09/27/11	4022.53	97.67		0.00	0.00	97.67	3924.86
	10/24/11	4022.53	96.44		0.00	0.00	96.44	3926.09
	11/29/11	4022.53	98.06		0.00	0.00	98.06	3924.47
	12/23/11	4022.53	97.87		0.00	0.00	97.87	3924.66
MW-13	12/13/01	4031.96	103.76		0.00	0.00	103.76	3928.20
	03/22/02	4031.96	107.18		0.00	0.00	107.18	3924.78
	09/16/02	4031.96	107.58		0.00	0.00	107.58	3924.38
	09/20/02	4031.96	107.48		0.00	0.00	107.48	3924.48
	04/05/04	4031.96	108.04		0.00	0.00	108.04	3923.92
	05/17/04	4031.96	108.06		0.00	0.00	108.06	3923.90
	05/24/04	4031.96	107.97		0.00	0.00	107.97	3923.99
	06/01/04	4031.96	107.97		0.00	0.00	107.97	3923.99
	06/07/04	4031.96	107.89		0.00	0.00	107.89	3924.07
	06/15/04	4031.96	107.99		0.00	0.00	107.99	3923.97
	06/21/04	4031.96	107.98		0.00	0.00	107.98	3923.98
	06/28/04	4031.96	108.29		0.00	0.00	108.29	3923.67
	07/06/04	4031.96	108.12		0.00	0.00	108.12	3923.84
	07/12/04	4031.96	108.22		0.00	0.00	108.22	3923.74
	07/19/04	4031.96	108.16		0.00	0.00	108.16	3923.80
	07/26/04	4031.96	108.34		0.00	0.00	108.34	3923.62
	08/02/04	4031.96	108.17		0.00	0.00	108.17	3923.79
	08/10/04	4031.96	108.29		0.00	0.00	108.29	3923.67

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	08/16/04	4031.96	108.27		0.00	0.00	108.27	3923.69
	08/23/04	4031.96	108.01		0.00	0.00	108.01	3923.95
	08/30/04	4031.96	108.24		0.00	0.00	108.24	3923.72
	09/08/04	4031.96	108.31		0.00	0.00	108.31	3923.65
	10/08/04	4031.96	108.23		0.00	0.00	108.23	3923.73
	12/30/04	4031.96	108.12		0.00	0.00	108.12	3923.84
	01/17/05	4031.96	108.49		0.00	0.00	108.49	3923.47
	02/09/05	4031.96	108.38		0.00	0.00	108.38	3923.58
	03/09/05	4031.96	108.44		0.00	0.00	108.44	3923.52
	04/05/05	4031.96	108.04		0.00	0.00	108.04	3923.92
	05/10/05	4031.96	108.09		0.00	0.00	108.09	3923.87
	06/08/05	4031.96	108.18		0.00	0.00	108.18	3923.78
	07/05/05	4031.96	108.47		0.00	0.00	108.47	3923.49
	08/08/05	4031.96	108.37		0.00	0.00	108.37	3923.59
	09/14/05	4031.96	108.28		0.00	0.00	108.28	3923.68
	10/12/05	4031.96	108.42		0.00	0.00	108.42	3923.54
	11/09/05	4031.96	108.51		0.00	0.00	108.51	3923.45
	12/14/05	4031.96	108.31		0.00	0.00	108.31	3923.65
	01/12/06	4031.96	108.16		0.00	0.00	108.16	3923.80
	02/02/06	4031.96	108.17		0.00	0.00	108.17	3923.79
	03/07/06	4031.96	108.33		0.00	0.00	108.33	3923.63
	04/05/06	4031.96	108.22		0.00	0.00	108.22	3923.74
	05/08/06	4031.96	108.18		0.00	0.00	108.18	3923.78
	06/05/06	4031.96	108.30		0.00	0.00	108.30	3923.66
	07/11/06	4031.96	108.34		0.00	0.00	108.34	3923.62
	08/16/06	4031.96	108.43		0.00	0.00	108.43	3923.53
	09/07/06	4031.96	108.32		0.00	0.00	108.32	3923.64
	10/11/06	4031.96	108.31		0.00	0.00	108.31	3923.65
	11/08/06	4031.96	108.18		0.00	0.00	108.18	3923.78
	12/04/06	4031.96	108.79		0.00	0.00	108.79	3923.17
	01/04/07	4031.96	108.11		0.00	0.00	108.11	3923.85
	02/27/07	4031.96	108.16		0.00	0.00	108.16	3923.80
	03/20/07	4031.96	108.37		0.00	0.00	108.37	3923.59
	04/17/07	4031.96	108.13		0.00	0.00	108.13	3923.83
	05/07/07	4031.96	108.37		0.00	0.00	108.37	3923.59
	06/27/07	4031.96	108.23		0.00	0.00	108.23	3923.73
	07/19/07	4031.96	108.13		0.00	0.00	108.13	3923.83
	08/21/07	4031.96	108.10		0.00	0.00	108.10	3923.86
	09/17/07	4031.96	108.08		0.00	0.00	108.08	3923.88
	10/16/07	4031.96	108.03		0.00	0.00	108.03	3923.93
	11/20/07	4031.96	108.11		0.00	0.00	108.11	3923.85
	12/21/07	4031.96	107.92		0.00	0.00	107.92	3924.04
	01/22/08	4031.96	108.42		0.00	0.00	108.42	3923.54
	02/27/08	4031.96	108.40		0.00	0.00	108.40	3923.56
	03/25/08	4031.96	108.22		0.00	0.00	108.22	3923.74
	04/29/08	4031.96	108.22		0.00	0.00	108.22	3923.74
	05/05/08	4031.96	108.22		0.00	0.00	108.22	3923.74
	06/10/08	4031.96	108.23		0.00	0.00	108.23	3923.73
	07/15/08	4031.96	108.23		0.00	0.00	108.23	3923.73
	08/19/08	4031.96	108.24		0.00	0.00	108.24	3923.72
	09/16/08	4031.96	108.52		0.00	0.00	108.52	3923.44
	10/15/08	4031.96	108.44		0.00	0.00	108.44	3923.52

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	11/12/08	4031.96	108.15		0.00	0.00	108.15	3923.81
	12/11/08	4031.96	108.34		0.00	0.00	108.34	3923.62
	01/13/09	4031.96	108.55		0.00	0.00	108.55	3923.41
	02/11/09	4031.96	108.27		0.00	0.00	108.27	3923.69
	03/10/09	4031.96	108.05		0.00	0.00	108.05	3923.91
	04/13/09	4031.96	108.20		0.00	0.00	108.20	3923.76
	05/01/09	4031.96	108.02		0.00	0.00	108.02	3923.94
	06/08/09	4031.96	107.90		0.00	0.00	107.90	3924.06
	07/13/09	4031.96	107.97		0.00	0.00	107.97	3923.99
	08/10/09	4031.96	107.98		0.00	0.00	107.98	3923.98
	09/15/09	4031.96	107.83		0.00	0.00	107.83	3924.13
	10/06/09	4031.96	107.73		0.00	0.00	107.73	3924.23
	11/09/09	4031.96	107.95		0.00	0.00	107.95	3924.01
	12/23/09	4031.96	107.45		0.00	0.00	107.45	3924.51
	01/20/10	4031.96	107.40		0.00	0.00	107.40	3924.56
	02/09/10	4031.96	108.03		0.00	0.00	108.03	3923.93
	03/09/10	4031.96	107.65		0.00	0.00	107.65	3924.31
	04/12/10	4031.96	107.94		0.00	0.00	107.94	3924.02
	05/24/10	4031.96	107.76		0.00	0.00	107.76	3924.20
	06/14/10	4031.96	107.90		0.00	0.00	107.90	3924.06
	07/20/10	4031.96	107.98		0.00	0.00	107.98	3923.98
	08/11/10	4031.96	108.00		0.00	0.00	108.00	3923.96
	09/21/10	4031.96	107.90		0.00	0.00	107.90	3924.06
	10/20/10	4031.96	108.08		0.00	0.00	108.08	3923.88
	11/08/10	4031.96	107.93		0.00	0.00	107.93	3924.03
	12/07/10	4031.96	107.99		0.00	0.00	107.99	3923.97
	01/18/11	4031.96	108.03		0.00	0.00	108.03	3923.93
	02/08/11	4031.96	108.77		0.00	0.00	108.77	3923.19
	03/08/11	4031.96	107.82		0.00	0.00	107.82	3924.14
	04/13/11	4031.96	108.03		0.00	0.00	108.03	3923.93
	05/23/11	4031.96	108.01		0.00	0.00	108.01	3923.95
	06/28/11	4031.96	108.28		0.00	0.00	108.28	3923.68
	07/19/11	4031.96	108.19		0.00	0.00	108.19	3923.77
	08/31/11	4031.96	108.05		0.00	0.00	108.05	3923.91
	09/27/11	4031.96	108.09		0.00	0.00	108.09	3923.87
	10/24/11	4031.96	108.19		0.00	0.00	108.19	3923.77
	11/29/11	4031.96	108.31		0.00	0.00	108.31	3923.65
	12/23/11	4031.96	108.13		0.00	0.00	108.13	3923.83
MW-14	12/13/01	4006.98	74.67		0.00	0.00	74.67	3932.31
	03/22/02	4006.98	74.67		0.00	0.00	74.67	3932.31
	09/16/02	4006.98	74.56		0.00	0.00	74.56	3932.42
	09/20/02	4006.98	74.40		0.00	0.00	74.40	3932.58
	04/05/04	4006.98	75.20		0.00	0.00	75.20	3931.78
	05/17/04	4006.98	75.25		0.00	0.00	75.25	3931.73
	05/24/04	4006.98	75.17		0.00	0.00	75.17	3931.81
	06/01/04	4006.98	75.18		0.00	0.00	75.18	3931.80
	06/07/04	4006.98	75.12		0.00	0.00	75.12	3931.86
	06/15/04	4006.98	75.23		0.00	0.00	75.23	3931.75
	06/21/04	4006.98	75.24		0.00	0.00	75.24	3931.74
	06/28/04	4006.98	75.55		0.00	0.00	75.55	3931.43
	07/06/04	4006.98	75.37		0.00	0.00	75.37	3931.61
	07/12/04	4006.98	75.49		0.00	0.00	75.49	3931.49

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/19/04	4006.98	75.43		0.00	0.00	75.43	3931.55
	07/26/04	4006.98	75.64		0.00	0.00	75.64	3931.34
	08/02/04	4006.98	75.49		0.00	0.00	75.49	3931.49
	08/10/04	4006.98	75.62		0.00	0.00	75.62	3931.36
	08/16/04	4006.98	75.59		0.00	0.00	75.59	3931.39
	08/23/04	4006.98	75.32		0.00	0.00	75.32	3931.66
	08/30/04	4006.98	75.57		0.00	0.00	75.57	3931.41
	09/08/04	4006.98	75.65		0.00	0.00	75.65	3931.33
	10/08/04	4006.98	75.61		0.00	0.00	75.61	3931.37
	12/30/04	4006.98	75.45		0.00	0.00	75.45	3931.53
	01/17/05	4006.98	75.74		0.00	0.00	75.74	3931.24
	02/09/05	4006.98	75.46		0.00	0.00	75.46	3931.52
	03/09/05	4006.98	75.37		0.00	0.00	75.37	3931.61
	04/05/05	4006.98	74.84		0.00	0.00	74.84	3932.14
	05/10/05	4006.98	74.72		0.00	0.00	74.72	3932.26
	06/08/05	4006.98	74.71		0.00	0.00	74.71	3932.27
	07/05/05	4006.98	74.93		0.00	0.00	74.93	3932.05
	08/08/05	4006.98	74.78		0.00	0.00	74.78	3932.20
	09/14/05	4006.98	74.62		0.00	0.00	74.62	3932.36
	10/12/05	4006.98	74.69		0.00	0.00	74.69	3932.29
	11/09/05	4006.98	74.69		0.00	0.00	74.69	3932.29
	12/14/05	4006.98	74.29		0.00	0.00	74.29	3932.69
	01/12/06	4006.98	74.01		0.00	0.00	74.01	3932.97
	02/02/06	4006.98	73.91		0.00	0.00	73.91	3933.07
	03/07/06	4006.98	73.97		0.00	0.00	73.97	3933.01
	04/05/06	4006.98	73.80		0.00	0.00	73.80	3933.18
	05/08/06	4006.98	73.69		0.00	0.00	73.69	3933.29
	06/05/06	4006.98	73.78		0.00	0.00	73.78	3933.20
	07/11/06	4006.98	73.83		0.00	0.00	73.83	3933.15
	08/16/06	4006.98	73.94		0.00	0.00	73.94	3933.04
	09/07/06	4006.98	72.93		0.00	0.00	72.93	3934.05
	10/11/06	4006.98	73.95		0.00	0.00	73.95	3933.03
	11/08/06	4006.98	73.88		0.00	0.00	73.88	3933.10
	12/04/06	4006.98	74.53		0.00	0.00	74.53	3932.45
	01/04/07	4006.98	73.79		0.00	0.00	73.79	3933.19
	02/27/07	4006.98	73.73		0.00	0.00	73.73	3933.25
	03/20/07	4006.98	73.90		0.00	0.00	73.90	3933.08
	04/17/07	4006.98	73.68		0.00	0.00	73.68	3933.30
	05/07/07	4006.98	73.88		0.00	0.00	73.88	3933.10
	06/27/07	4006.98	73.80		0.00	0.00	73.80	3933.18
	07/19/07	4006.98	73.69		0.00	0.00	73.69	3933.29
	08/21/07	4006.98	73.61		0.00	0.00	73.61	3933.37
	09/17/07	4006.98	73.54		0.00	0.00	73.54	3933.44
	10/16/07	4006.98	73.39		0.00	0.00	73.39	3933.59
	11/20/07	4006.98	73.34		0.00	0.00	73.34	3933.64
	12/21/07	4006.98	73.05		0.00	0.00	73.05	3933.93
	01/22/08	4006.98	73.44		0.00	0.00	73.44	3933.54
	02/27/08	4006.98	73.37		0.00	0.00	73.37	3933.61
	03/25/08	4006.98	73.17		0.00	0.00	73.17	3933.81
	04/29/08	4006.98	73.16		0.00	0.00	73.16	3933.82
	05/05/08	4006.98	73.14		0.00	0.00	73.14	3933.84
	06/10/08	4006.98	73.16		0.00	0.00	73.16	3933.82

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/15/08	4006.98	73.25		0.00	0.00	73.25	3933.73
	08/19/08	4006.98	73.32		0.00	0.00	73.32	3933.66
	09/16/08	4006.98	73.68		0.00	0.00	73.68	3933.30
	10/15/08	4006.98	73.67		0.00	0.00	73.67	3933.31
	11/12/08	4006.98	73.44		0.00	0.00	73.44	3933.54
	12/11/08	4006.98	73.69		0.00	0.00	73.69	3933.29
	01/13/09	4006.98	73.89		0.00	0.00	73.89	3933.09
	02/11/09	4006.98	73.57		0.00	0.00	73.57	3933.41
	03/10/09	4006.98	73.34		0.00	0.00	73.34	3933.64
	04/13/09	4006.98	73.43		0.00	0.00	73.43	3933.55
	05/01/09	4006.98	73.30		0.00	0.00	73.30	3933.68
	06/08/09	4006.98	73.15		0.00	0.00	73.15	3933.83
	07/13/09	4006.98	73.29		0.00	0.00	73.29	3933.69
	08/10/09	4006.98	73.32		0.00	0.00	73.32	3933.66
	09/15/09	4006.98	73.22		0.00	0.00	73.22	3933.76
	10/06/09	4006.98	73.15		0.00	0.00	73.15	3933.83
	11/09/09	4006.98	73.43		0.00	0.00	73.43	3933.55
	12/23/09	4006.98	72.93		0.00	0.00	72.93	3934.05
	01/20/10	4006.98	72.88		0.00	0.00	72.88	3934.10
	02/09/10	4006.98	73.48		0.00	0.00	73.48	3933.50
	03/09/10	4006.98	73.09		0.00	0.00	73.09	3933.89
	04/12/10	4006.98	73.40		0.00	0.00	73.40	3933.58
	05/24/10	4006.98	73.24		0.00	0.00	73.24	3933.74
	06/14/10	4006.98	73.40		0.00	0.00	73.40	3933.58
	07/20/10	4006.98	73.53		0.00	0.00	73.53	3933.45
	08/11/10	4006.98	73.59		0.00	0.00	73.59	3933.39
	09/21/10	4006.98	73.55		0.00	0.00	73.55	3933.43
	10/20/10	4006.98	73.74		0.00	0.00	73.74	3933.24
	11/08/10	4006.98	73.62		0.00	0.00	73.62	3933.36
	12/07/10	4006.98	73.73		0.00	0.00	73.73	3933.25
	01/18/11	4006.98	73.73		0.00	0.00	73.73	3933.25
	02/08/11	4006.98	73.53		0.00	0.00	73.53	3933.45
	03/08/11	4006.98	73.54		0.00	0.00	73.54	3933.44
	04/13/11	4006.98	73.78		0.00	0.00	73.78	3933.20
	05/23/11	4006.98	73.75		0.00	0.00	73.75	3933.23
	06/28/11	4006.98	74.04		0.00	0.00	74.04	3932.94
	07/19/11	4006.98	73.93		0.00	0.00	73.93	3933.05
	08/31/11	4006.98	73.82		0.00	0.00	73.82	3933.16
	09/27/11	4006.98	73.92		0.00	0.00	73.92	3933.06
	10/24/11	4006.98	74.05		0.00	0.00	74.05	3932.93
	11/29/11	4006.98	74.22		0.00	0.00	74.22	3932.76
	12/23/11	4006.98	74.09		0.00	0.00	74.09	3932.89
MW-15	09/20/02	4026.75	118.93		0.00	0.00	118.93	3907.82
	04/05/04	4026.75	119.65		0.00	0.00	119.65	3907.10
	05/17/04	4026.75	119.56		0.00	0.00	119.56	3907.19
	05/24/04	4026.75	119.63		0.00	0.00	119.63	3907.12
	06/01/04	4026.75	119.62		0.00	0.00	119.62	3907.13
	06/07/04	4026.75	119.63		0.00	0.00	119.63	3907.12
	06/15/04	4026.75	119.66		0.00	0.00	119.66	3907.09
	06/21/04	4026.75	119.69		0.00	0.00	119.69	3907.06
	06/28/04	4026.75	119.78		0.00	0.00	119.78	3906.97
	07/06/04	4026.75	119.77		0.00	0.00	119.77	3906.98

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/12/04	4026.75	119.79		0.00	0.00	119.79	3906.96
	07/19/04	4026.75	119.80		0.00	0.00	119.80	3906.95
	07/26/04	4026.75	119.86		0.00	0.00	119.86	3906.89
	08/02/04	4026.75	119.83		0.00	0.00	119.83	3906.92
	08/10/04	4026.75	119.87		0.00	0.00	119.87	3906.88
	08/16/04	4026.75	119.88		0.00	0.00	119.88	3906.87
	08/23/04	4026.75	119.82		0.00	0.00	119.82	3906.93
	08/30/04	4026.75	119.88		0.00	0.00	119.88	3906.87
	09/08/04	4026.75	119.92		0.00	0.00	119.92	3906.83
	10/08/04	4026.75	119.94		0.00	0.00	119.94	3906.81
	12/30/04	4026.75	120.03		0.00	0.00	120.03	3906.72
	01/17/05	4026.75	120.12		0.00	0.00	120.12	3906.63
	02/09/05	4026.75	120.12		0.00	0.00	120.12	3906.63
	03/09/05	4026.75	120.14		0.00	0.00	120.14	3906.61
	04/05/05	4026.75	120.05		0.00	0.00	120.05	3906.70
	05/10/05	4026.75	120.11		0.00	0.00	120.11	3906.64
	06/08/05	4026.75	120.14		0.00	0.00	120.14	3906.61
	07/05/05	4026.75	120.24		0.00	0.00	120.24	3906.51
	08/08/05	4026.75	120.33		0.00	0.00	120.33	3906.42
	09/14/05	4026.75	120.33		0.00	0.00	120.33	3906.42
	10/12/05	4026.75	120.37		0.00	0.00	120.37	3906.38
	11/09/05	4026.75	120.42		0.00	0.00	120.42	3906.33
	12/14/05	4026.75	120.43		0.00	0.00	120.43	3906.32
	01/12/06	4026.75	120.42		0.00	0.00	120.42	3906.33
	02/02/06	4026.75	120.43		0.00	0.00	120.43	3906.32
	03/07/06	4026.75	120.50		0.00	0.00	120.50	3906.25
	04/05/06	4026.75	120.48		0.00	0.00	120.48	3906.27
	05/08/06	4026.75	120.45		0.00	0.00	120.45	3906.30
	06/05/06	4026.75	120.54		0.00	0.00	120.54	3906.21
	07/11/06	4026.75	120.65		0.00	0.00	120.65	3906.10
	08/16/06	4026.75	120.68		0.00	0.00	120.68	3906.07
	09/07/06	4026.75	120.71		0.00	0.00	120.71	3906.04
	10/11/06	4026.75	120.75		0.00	0.00	120.75	3906.00
	11/08/06	4026.75	120.76		0.00	0.00	120.76	3905.99
	12/04/06	4026.75	120.76		0.00	0.00	120.76	3905.99
	01/04/07	4026.75	120.80		0.00	0.00	120.80	3905.95
	02/27/07	4026.75	120.83		0.00	0.00	120.83	3905.92
	03/20/07	4026.75	120.90		0.00	0.00	120.90	3905.85
	04/17/07	4026.75	120.86		0.00	0.00	120.86	3905.89
	05/07/07	4026.75	120.88		0.00	0.00	120.88	3905.87
	06/27/07	4026.75	120.81		0.00	0.00	120.81	3905.94
	07/19/07	4026.75	120.88		0.00	0.00	120.88	3905.87
	08/21/07	4026.75	120.88		0.00	0.00	120.88	3905.87
	09/17/07	4026.75	120.93		0.00	0.00	120.93	3905.82
	10/16/07	4026.75	120.95		0.00	0.00	120.95	3905.80
	11/20/07	4026.75	121.06		0.00	0.00	121.06	3905.69
	12/21/07	4026.75	121.08		0.00	0.00	121.08	3905.67
	01/22/08	4026.75	121.18		0.00	0.00	121.18	3905.57
	02/27/08	4026.75	121.40		0.00	0.00	121.40	3905.35
	03/25/08	4026.75	121.22		0.00	0.00	121.22	3905.53
	04/29/08	4026.75	121.21		0.00	0.00	121.21	3905.54
	05/05/08	4026.75	121.20		0.00	0.00	121.20	3905.55

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/10/08	4026.75	121.24		0.00	0.00	121.24	3905.51
	07/15/08	4026.75	121.31		0.00	0.00	121.31	3905.44
	08/19/08	4026.75	121.40		0.00	0.00	121.40	3905.35
	09/16/08	4026.75	121.54		0.00	0.00	121.54	3905.21
	10/15/08	4026.75	121.43		0.00	0.00	121.43	3905.32
	11/12/08	4026.75	121.40		0.00	0.00	121.40	3905.35
	12/11/08	4026.75	121.47		0.00	0.00	121.47	3905.28
	01/13/09	4026.75	121.28		0.00	0.00	121.28	3905.47
	02/11/09	4026.75	121.49		0.00	0.00	121.49	3905.26
	03/10/09	4026.75	121.36		0.00	0.00	121.36	3905.39
	04/13/09	4026.75	121.39		0.00	0.00	121.39	3905.36
	05/01/09	4026.75	121.34		0.00	0.00	121.34	3905.41
	06/08/09	4026.75	121.16		0.00	0.00	121.16	3905.59
	07/13/09	4026.75	121.60		0.00	0.00	121.60	3905.15
	08/10/09	4026.75	121.16		0.00	0.00	121.16	3905.59
	09/15/09	4026.75	121.11		0.00	0.00	121.11	3905.64
	10/06/09	4026.75	121.03		0.00	0.00	121.03	3905.72
	11/09/09	4026.75	121.24		0.00	0.00	121.24	3905.51
	12/23/09	4026.75	120.88		0.00	0.00	120.88	3905.87
	01/20/10	4026.75	120.82		0.00	0.00	120.82	3905.93
	02/09/10	4026.75	121.30		0.00	0.00	121.30	3905.45
	03/09/10	4026.75	120.97		0.00	0.00	120.97	3905.78
	04/12/10	4026.75	121.24		0.00	0.00	121.24	3905.51
	05/24/10	4026.75	121.03		0.00	0.00	121.03	3905.72
	06/14/10	4026.75	121.16		0.00	0.00	121.16	3905.59
	07/20/10	4026.75	121.24		0.00	0.00	121.24	3905.51
	08/11/10	4026.75	121.02		0.00	0.00	121.02	3905.73
	09/21/10	4026.75	121.09		0.00	0.00	121.09	3905.66
	10/20/10	4026.75	121.25		0.00	0.00	121.25	3905.50
	11/08/10	4026.75	121.14		0.00	0.00	121.14	3905.61
	12/07/10	4026.75	121.16		0.00	0.00	121.16	3905.59
	01/18/11	4026.75	121.14		0.00	0.00	121.14	3905.61
	02/08/11	4026.75	120.98		0.00	0.00	120.98	3905.77
	03/08/11	4026.75	120.90		0.00	0.00	120.90	3905.85
	04/13/11	4026.75	121.15		0.00	0.00	121.15	3905.60
	05/23/11	4026.75	121.09		0.00	0.00	121.09	3905.66
	06/28/11	4026.75	121.37		0.00	0.00	121.37	3905.38
	07/19/11	4026.75	121.29		0.00	0.00	121.29	3905.46
	08/31/11	4026.75	121.14		0.00	0.00	121.14	3905.61
	09/27/11	4026.75	121.16		0.00	0.00	121.16	3905.59
	10/24/11	4026.75	121.28		0.00	0.00	121.28	3905.47
	11/29/11	4026.75	121.31		0.00	0.00	121.31	3905.44
	12/23/11	4026.75	121.23		0.00	0.00	121.23	3905.52
MW-16	09/20/02	4017.74	113.50		0.00	0.00	113.50	3904.24
	04/05/04	4017.74	113.88		0.00	0.00	113.88	3903.86
	05/17/04	4017.74	113.92		0.00	0.00	113.92	3903.82
	05/24/04	4017.74	113.83		0.00	0.00	113.83	3903.91
	06/01/04	4017.74	113.89		0.00	0.00	113.89	3903.85
	06/07/04	4017.74	113.80		0.00	0.00	113.80	3903.94
	06/15/04	4017.74	113.88		0.00	0.00	113.88	3903.86
	06/21/04	4017.74	113.90		0.00	0.00	113.90	3903.84
	06/28/04	4017.74	114.18		0.00	0.00	114.18	3903.56

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/06/04	4017.74	114.01		0.00	0.00	114.01	3903.73
	07/12/04	4017.74	114.13		0.00	0.00	114.13	3903.61
	07/19/04	4017.74	114.06		0.00	0.00	114.06	3903.68
	07/26/04	4017.74	114.22		0.00	0.00	114.22	3903.52
	08/02/04	4017.74	114.07		0.00	0.00	114.07	3903.67
	08/10/04	4017.74	114.21		0.00	0.00	114.21	3903.53
	08/16/04	4017.74	114.08		0.00	0.00	114.08	3903.66
	08/23/04	4017.74	113.97		0.00	0.00	113.97	3903.77
	08/30/04	4017.74	114.13		0.00	0.00	114.13	3903.61
	09/08/04	4017.74	114.21		0.00	0.00	114.21	3903.53
	10/08/04	4017.74	114.15		0.00	0.00	114.15	3903.59
	12/30/04	4017.74	114.03		0.00	0.00	114.03	3903.71
	01/17/05	4017.74	114.39		0.00	0.00	114.39	3903.35
	02/09/05	4017.74	114.26		0.00	0.00	114.26	3903.48
	03/09/05	4017.74	114.29		0.00	0.00	114.29	3903.45
	04/05/05	4017.74	113.94		0.00	0.00	113.94	3903.80
	05/10/05	4017.74	114.01		0.00	0.00	114.01	3903.73
	06/08/05	4017.74	114.10		0.00	0.00	114.10	3903.64
	07/05/05	4017.74	114.40		0.00	0.00	114.40	3903.34
	08/08/05	4017.74	114.33		0.00	0.00	114.33	3903.41
	09/14/05	4017.74	114.24		0.00	0.00	114.24	3903.50
	10/12/05	4017.74	114.38		0.00	0.00	114.38	3903.36
	11/09/05	4017.74	114.48		0.00	0.00	114.48	3903.26
	12/14/05	4017.74	114.27		0.00	0.00	114.27	3903.47
	01/12/06	4017.74	114.17		0.00	0.00	114.17	3903.57
	02/02/06	4017.74	114.17		0.00	0.00	114.17	3903.57
	03/07/06	4017.74	114.36		0.00	0.00	114.36	3903.38
	04/05/06	4017.74	114.28		0.00	0.00	114.28	3903.46
	05/08/06	4017.74	114.25		0.00	0.00	114.25	3903.49
	06/05/06	4017.74	114.38		0.00	0.00	114.38	3903.36
	07/11/06	4017.74	114.47		0.00	0.00	114.47	3903.27
	08/16/06	4017.74	114.58		0.00	0.00	114.58	3903.16
	09/07/06	4017.74	114.49		0.00	0.00	114.49	3903.25
	10/11/06	4017.74	114.51		0.00	0.00	114.51	3903.23
	11/08/06	4017.74	114.40		0.00	0.00	114.40	3903.34
	12/04/06	4017.74	115.00		0.00	0.00	115.00	3902.74
	01/04/07	4017.74	114.38		0.00	0.00	114.38	3903.36
	02/27/07	4017.74	114.41		0.00	0.00	114.41	3903.33
	03/20/07	4017.74	114.67		0.00	0.00	114.67	3903.07
	04/17/07	4017.74	114.47		0.00	0.00	114.47	3903.27
	05/07/07	4017.74	114.71		0.00	0.00	114.71	3903.03
	06/27/07	4017.74	114.65		0.00	0.00	114.65	3903.09
	07/19/07	4017.74	114.58		0.00	0.00	114.58	3903.16
	08/21/07	4017.74	114.56		0.00	0.00	114.56	3903.18
	09/17/07	4017.74	114.57		0.00	0.00	114.57	3903.17
	10/16/07	4017.74	114.51		0.00	0.00	114.51	3903.23
	11/20/07	4017.74	114.63		0.00	0.00	114.63	3903.11
	12/21/07	4017.74	114.46		0.00	0.00	114.46	3903.28
	01/22/08	4017.74	114.95		0.00	0.00	114.95	3902.79
	02/27/08	4017.74	114.99		0.00	0.00	114.99	3902.75
	03/25/08	4017.74	114.84		0.00	0.00	114.84	3902.90
	04/29/08	4017.74	114.87		0.00	0.00	114.87	3902.87

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	05/05/08	4017.74	114.84		0.00	0.00	114.84	3902.90
	06/10/08	4017.74	114.86		0.00	0.00	114.86	3902.88
	07/15/08	4017.74	114.92		0.00	0.00	114.92	3902.82
	08/19/08	4017.74	114.94		0.00	0.00	114.94	3902.80
	09/16/08	4017.74	115.19		0.00	0.00	115.19	3902.55
	10/15/08	4017.74	115.15		0.00	0.00	115.15	3902.59
	11/12/08	4017.74	115.20		0.00	0.00	115.20	3902.54
	12/11/08	4017.74	115.06		0.00	0.00	115.06	3902.68
	01/13/09	4017.74	115.28		0.00	0.00	115.28	3902.46
	02/11/09	4017.74	114.99		0.00	0.00	114.99	3902.75
	03/10/09	4017.74	114.78		0.00	0.00	114.78	3902.96
	03/10/09	4017.74	114.90		0.00	0.00	114.90	3902.84
	05/01/09	4017.74	114.80		0.00	0.00	114.80	3902.94
	06/08/09	4017.74	114.70		0.00	0.00	114.70	3903.04
	07/13/09	4017.74	114.82		0.00	0.00	114.82	3902.92
	08/10/09	4017.74	114.83		0.00	0.00	114.83	3902.91
	09/15/09	4017.74	114.65		0.00	0.00	114.65	3903.09
	10/06/09	4017.74	114.55		0.00	0.00	114.55	3903.19
	11/09/09	4017.74	114.78		0.00	0.00	114.78	3902.96
	12/23/09	4017.74	114.25		0.00	0.00	114.25	3903.49
	01/20/10	4017.74	114.20		0.00	0.00	114.20	3903.54
	02/09/10	4017.74	114.78		0.00	0.00	114.78	3902.96
	03/09/10	4017.74	114.36		0.00	0.00	114.36	3903.38
	04/12/10	4017.74	114.65		0.00	0.00	114.65	3903.09
	05/24/10	4017.74	114.43		0.00	0.00	114.43	3903.31
	06/14/10	4017.74	114.56		0.00	0.00	114.56	3903.18
	07/20/10	4017.74	114.63		0.00	0.00	114.63	3903.11
	08/11/10	4017.74	114.64		0.00	0.00	114.64	3903.10
	09/21/10	4017.74	114.50		0.00	0.00	114.50	3903.24
	10/20/10	4017.74	114.65		0.00	0.00	114.65	3903.09
	11/08/10	4017.74	114.51		0.00	0.00	114.51	3903.23
	12/07/10	4017.74	114.55		0.00	0.00	114.55	3903.19
	01/18/11	4017.74	114.53		0.00	0.00	114.53	3903.21
	02/08/11	4017.74	114.29		0.00	0.00	114.29	3903.45
	03/08/11	4017.74	114.30		0.00	0.00	114.30	3903.44
	04/13/11	4017.74	114.50		0.00	0.00	114.50	3903.24
	05/23/11	4017.74	114.45		0.00	0.00	114.45	3903.29
	06/28/11	4017.74	114.75		0.00	0.00	114.75	3902.99
	07/19/11	4017.74	114.60		0.00	0.00	114.60	3903.14
	08/31/11	4017.74	114.49		0.00	0.00	114.49	3903.25
	09/27/11	4017.74	114.51		0.00	0.00	114.51	3903.23
	10/24/11	4017.74	114.62		0.00	0.00	114.62	3903.12
	11/29/11	4017.74	114.74		0.00	0.00	114.74	3903.00
	12/23/11	4017.74	114.56		0.00	0.00	114.56	3903.18
MW-17	09/20/02	3998.58	97.36		0.00	0.00	97.36	3901.22
	04/05/04	3998.58	97.28		0.00	0.00	97.28	3901.30
	05/17/04	3998.58	97.37		0.00	0.00	97.37	3901.21
	05/24/04	3998.58	97.35		0.00	0.00	97.35	3901.23
	06/01/04	3998.58	97.33		0.00	0.00	97.33	3901.25
	06/07/04	3998.58	97.41		0.00	0.00	97.41	3901.17
	06/15/04	3998.58	97.39		0.00	0.00	97.39	3901.19
	06/21/04	3998.58	97.41		0.00	0.00	97.41	3901.17

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/28/04	3998.58	97.51		0.00	0.00	97.51	3901.07
	07/06/04	3998.58	97.45		0.00	0.00	97.45	3901.13
	07/12/04	3998.58	97.53		0.00	0.00	97.53	3901.05
	07/19/04	3998.58	97.49		0.00	0.00	97.49	3901.09
	07/26/04	3998.58	97.55		0.00	0.00	97.55	3901.03
	08/02/04	3998.58	97.51		0.00	0.00	97.51	3901.07
	08/10/04	3998.58	97.55		0.00	0.00	97.55	3901.03
	08/16/04	3998.58	97.56		0.00	0.00	97.56	3901.02
	08/23/04	3998.58	97.49		0.00	0.00	97.49	3901.09
	08/30/04	3998.58	97.53		0.00	0.00	97.53	3901.05
	09/08/04	3998.58	97.56		0.00	0.00	97.56	3901.02
	10/08/04	3998.58	97.58		0.00	0.00	97.58	3901.00
	12/30/04	3998.58	97.61		0.00	0.00	97.61	3900.97
	01/17/05	3998.58	97.72		0.00	0.00	97.72	3900.86
	02/09/05	3998.58	97.63		0.00	0.00	97.63	3900.95
	03/09/05	3998.58	97.68		0.00	0.00	97.68	3900.90
	04/05/05	3998.58	97.32		0.00	0.00	97.32	3901.26
	05/10/05	3998.58	97.41		0.00	0.00	97.41	3901.17
	06/08/05	3998.58	97.59		0.00	0.00	97.59	3900.99
	07/05/05	3998.58	97.68		0.00	0.00	97.68	3900.90
	08/08/05	3998.58	97.70		0.00	0.00	97.70	3900.88
	09/14/05	3998.58	96.62		0.00	0.00	96.62	3901.96
	10/12/05	3998.58	97.76		0.00	0.00	97.76	3900.82
	11/09/05	3998.58	97.79		0.00	0.00	97.79	3900.79
	12/14/05	3998.58	97.66		0.00	0.00	97.66	3900.92
	01/12/06	3998.58	97.77		0.00	0.00	97.77	3900.81
	02/02/06	3998.58	97.50		0.00	0.00	97.50	3901.08
	03/07/06	3998.58	97.79		0.00	0.00	97.79	3900.79
	04/05/06	3998.58	97.53		0.00	0.00	97.53	3901.05
	05/08/06	3998.58	97.59		0.00	0.00	97.59	3900.99
	06/05/06	3998.58	97.74		0.00	0.00	97.74	3900.84
	07/11/06	3998.58	97.83		0.00	0.00	97.83	3900.75
	08/16/06	3998.58	98.87		0.00	0.00	98.87	3899.71
	09/07/06	3998.58	97.88		0.00	0.00	97.88	3900.70
	10/11/06	3998.58	97.83		0.00	0.00	97.83	3900.75
	11/08/06	3998.58	97.95		0.00	0.00	97.95	3900.63
	12/04/06	3998.58	98.25		0.00	0.00	98.25	3900.33
	01/04/07	3998.58	97.77		0.00	0.00	97.77	3900.81
	02/27/07	3998.58	97.76		0.00	0.00	97.76	3900.82
	03/20/07	3998.58	97.94		0.00	0.00	97.94	3900.64
	04/17/07	3998.58	97.85		0.00	0.00	97.85	3900.73
	05/07/07	3998.58	97.98		0.00	0.00	97.98	3900.60
	06/27/07	3998.58	97.86		0.00	0.00	97.86	3900.72
	07/19/07	3998.58	97.88		0.00	0.00	97.88	3900.70
	08/21/07	3998.58	97.81		0.00	0.00	97.81	3900.77
	09/17/07	3998.58	97.90		0.00	0.00	97.90	3900.68
	10/16/07	3998.58	97.91		0.00	0.00	97.91	3900.67
	11/20/07	3998.58	97.94		0.00	0.00	97.94	3900.64
	12/21/07	3998.58	98.05		0.00	0.00	98.05	3900.53
	01/22/08	3998.58	98.08		0.00	0.00	98.08	3900.50
	02/27/08	3998.58	98.11		0.00	0.00	98.11	3900.47
	03/25/08	3998.58	98.18		0.00	0.00	98.18	3900.40

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	04/29/08	3998.58	98.15		0.00	0.00	98.15	3900.43
	05/05/08	3998.58	98.11		0.00	0.00	98.11	3900.47
	06/10/08	3998.58	98.84		0.00	0.00	98.84	3899.74
	07/15/08	3998.58	98.09		0.00	0.00	98.09	3900.49
	08/19/08	3998.58	98.14		0.00	0.00	98.14	3900.44
	09/16/08	3998.58	98.21		0.00	0.00	98.21	3900.37
	10/15/08	3998.58	98.25		0.00	0.00	98.25	3900.33
	11/12/08	3998.58	98.11		0.00	0.00	98.11	3900.47
	12/11/08	3998.58	98.19		0.00	0.00	98.19	3900.39
	01/13/09	3998.58	98.27		0.00	0.00	98.27	3900.31
	02/11/09	3998.58	98.10		0.00	0.00	98.10	3900.48
	03/10/09	3998.58	97.88		0.00	0.00	97.88	3900.70
	04/13/09	3998.58	97.96		0.00	0.00	97.96	3900.62
	05/01/09	3998.58	97.92		0.00	0.00	97.92	3900.66
	06/08/09	3998.58	97.82		0.00	0.00	97.82	3900.76
	07/13/09	3998.58	97.91		0.00	0.00	97.91	3900.67
	08/10/09	3998.58	97.98		0.00	0.00	97.98	3900.60
	09/15/09	3998.58	97.71		0.00	0.00	97.71	3900.87
	10/06/09	3998.58	97.57		0.00	0.00	97.57	3901.01
	11/09/09	3998.58	97.65		0.00	0.00	97.65	3900.93
	12/23/09	3998.58	97.45		0.00	0.00	97.45	3901.13
	01/20/10	3998.58	97.44		0.00	0.00	97.44	3901.14
	02/09/10	3998.58	97.66		0.00	0.00	97.66	3900.92
	03/09/10	3998.58	97.42		0.00	0.00	97.42	3901.16
	04/12/10	3998.58	97.64		0.00	0.00	97.64	3900.94
	05/24/10	3998.58	97.41		0.00	0.00	97.41	3901.17
	06/14/10	3998.58	97.55		0.00	0.00	97.55	3901.03
	07/20/10	3998.58	97.59		0.00	0.00	97.59	3900.99
	08/11/10	3998.58	97.59		0.00	0.00	97.59	3900.99
	09/21/10	3998.58	97.51		0.00	0.00	97.51	3901.07
	10/20/10	3998.58	97.57		0.00	0.00	97.57	3901.01
	11/08/10	3998.58	97.51		0.00	0.00	97.51	3901.07
	12/07/10	3998.58	97.58		0.00	0.00	97.58	3901.00
	01/18/11	3998.58	97.39		0.00	0.00	97.39	3901.19
	02/08/11	3998.58	97.38		0.00	0.00	97.38	3901.20
	03/08/11	3998.58	97.24		0.00	0.00	97.24	3901.34
	04/13/11	3998.58	97.48		0.00	0.00	97.48	3901.10
	05/23/11	3998.58	97.37		0.00	0.00	97.37	3901.21
	06/28/11	3998.58	97.61		0.00	0.00	97.61	3900.97
	07/19/11	3998.58	97.56		0.00	0.00	97.56	3901.02
	08/31/11	3998.58	97.38		0.00	0.00	97.38	3901.20
	09/27/11	3998.58	97.42		0.00	0.00	97.42	3901.16
	10/24/11	3998.58	97.57		0.00	0.00	97.57	3901.01
	11/29/11	3998.58	97.57		0.00	0.00	97.57	3901.01
	12/23/11	3998.58	97.43		0.00	0.00	97.43	3901.15
MW-18	09/20/02	3980.46	86.62		0.00	0.00	86.62	3893.84
	04/05/04	3980.46	86.61		0.00	0.00	86.61	3893.85
	05/17/04	3980.46	86.63		0.00	0.00	86.63	3893.83
	05/24/04	3980.46	86.58		0.00	0.00	86.58	3893.88
	06/01/04	3980.46	86.57		0.00	0.00	86.57	3893.89
	06/07/04	3980.46	86.50		0.00	0.00	86.50	3893.96
	06/15/04	3980.46	86.59		0.00	0.00	86.59	3893.87

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/21/04	3980.46	86.60		0.00	0.00	86.60	3893.86
	06/28/04	3980.46	86.79		0.00	0.00	86.79	3893.67
	07/06/04	3980.46	86.74		0.00	0.00	86.74	3893.72
	07/12/04	3980.46	86.77		0.00	0.00	86.77	3893.69
	07/19/04	3980.46	86.76		0.00	0.00	86.76	3893.70
	07/26/04	3980.46	86.91		0.00	0.00	86.91	3893.55
	08/02/04	3980.46	86.81		0.00	0.00	86.81	3893.65
	08/10/04	3980.46	86.93		0.00	0.00	86.93	3893.53
	08/16/04	3980.46	86.90		0.00	0.00	86.90	3893.56
	08/23/04	3980.46	86.63		0.00	0.00	86.63	3893.83
	08/30/04	3980.46	86.86		0.00	0.00	86.86	3893.60
	09/08/04	3980.46	86.92		0.00	0.00	86.92	3893.54
	10/08/04	3980.46	86.87		0.00	0.00	86.87	3893.59
	12/30/04	3980.46	86.74		0.00	0.00	86.74	3893.72
	01/17/05	3980.46	87.09		0.00	0.00	87.09	3893.37
	02/09/05	3980.46	86.97		0.00	0.00	86.97	3893.49
	03/09/05	3980.46	86.98		0.00	0.00	86.98	3893.48
	04/05/05	3980.46	86.64		0.00	0.00	86.64	3893.82
	05/10/05	3980.46	86.68		0.00	0.00	86.68	3893.78
	06/08/05	3980.46	86.75		0.00	0.00	86.75	3893.71
	07/05/05	3980.46	87.03		0.00	0.00	87.03	3893.43
	08/08/05	3980.46	86.97		0.00	0.00	86.97	3893.49
	09/14/05	3980.46	86.89		0.00	0.00	86.89	3893.57
	10/12/05	3980.46	87.03		0.00	0.00	87.03	3893.43
	11/09/05	3980.46	87.13		0.00	0.00	87.13	3893.33
	12/14/05	3980.46	86.93		0.00	0.00	86.93	3893.53
	01/12/06	3980.46	86.79		0.00	0.00	86.79	3893.67
	02/02/06	3980.46	86.80		0.00	0.00	86.80	3893.66
	03/07/06	3980.46	86.98		0.00	0.00	86.98	3893.48
	04/05/06	3980.46	86.91		0.00	0.00	86.91	3893.55
	05/08/06	3980.46	86.86		0.00	0.00	86.86	3893.60
	06/05/06	3980.46	87.00		0.00	0.00	87.00	3893.46
	07/11/06	3980.46	87.08		0.00	0.00	87.08	3893.38
	08/16/06	3980.46	87.19		0.00	0.00	87.19	3893.27
	09/07/06	3980.46	87.13		0.00	0.00	87.13	3893.33
	10/11/06	3980.46	87.14		0.00	0.00	87.14	3893.32
	11/08/06	3980.46	87.06		0.00	0.00	87.06	3893.40
	12/04/06	3980.46	87.66		0.00	0.00	87.66	3892.80
	01/04/07	3980.46	87.13		0.00	0.00	87.13	3893.33
	02/27/07	3980.46	87.05		0.00	0.00	87.05	3893.41
	03/20/07	3980.46	87.31		0.00	0.00	87.31	3893.15
	04/17/07	3980.46	87.12		0.00	0.00	87.12	3893.34
	05/07/07	3980.46	87.36		0.00	0.00	87.36	3893.10
	06/17/07	3980.46	87.29		0.00	0.00	87.29	3893.17
	07/19/07	3980.46	87.21		0.00	0.00	87.21	3893.25
	08/21/07	3980.46	87.19		0.00	0.00	87.19	3893.27
	09/17/07	3980.46	87.22		0.00	0.00	87.22	3893.24
	10/16/07	3980.46	87.17		0.00	0.00	87.17	3893.29
	11/20/07	3980.46	87.23		0.00	0.00	87.23	3893.23
	12/21/07	3980.46	87.07		0.00	0.00	87.07	3893.39
	01/22/08	3980.46	87.56		0.00	0.00	87.56	3892.90
	02/26/08	3980.46	87.58		0.00	0.00	87.58	3892.88

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	03/25/08	3980.46	87.43		0.00	0.00	87.43	3893.03
	04/29/08	3980.46	87.46		0.00	0.00	87.46	3893.00
	05/05/08	3980.46	87.43		0.00	0.00	87.43	3893.03
	06/10/08	3980.46	87.43		0.00	0.00	87.43	3893.03
	07/15/08	3980.46	87.48		0.00	0.00	87.48	3892.98
	08/19/08	3980.46	87.50		0.00	0.00	87.50	3892.96
	09/16/08	3980.46	87.81		0.00	0.00	87.81	3892.65
	10/15/08	3980.46	no data					
	11/12/08	3980.46	87.46		0.00	0.00	87.46	3893.00
	12/11/08	3980.46	87.69		0.00	0.00	87.69	3892.77
	01/13/09	3980.46	87.87		0.00	0.00	87.87	3892.59
	02/11/09	3980.46	87.58		0.00	0.00	87.58	3892.88
	03/10/09	3980.46	87.39		0.00	0.00	87.39	3893.07
	04/13/09	3980.46	87.53		0.00	0.00	87.53	3892.93
	05/01/09	3980.46	87.37		0.00	0.00	87.37	3893.09
	06/08/09	3980.46	87.26		0.00	0.00	87.26	3893.20
	07/13/09	3980.46	87.38		0.00	0.00	87.38	3893.08
	08/10/09	3980.46	87.39		0.00	0.00	87.39	3893.07
	09/15/09	3980.46	87.21		0.00	0.00	87.21	3893.25
	10/06/09	3980.46	87.12		0.00	0.00	87.12	3893.34
	11/09/09	3980.46	87.12		0.00	0.00	87.12	3893.34
	12/23/09	3980.46	86.80		0.00	0.00	86.80	3893.66
	01/20/10	3980.46	86.74		0.00	0.00	86.74	3893.72
	02/09/10	3980.46	87.35		0.00	0.00	87.35	3893.11
	03/09/10	3980.46	86.93		0.00	0.00	86.93	3893.53
	04/12/10	3980.46	87.25		0.00	0.00	87.25	3893.21
	05/24/10	3980.46	87.00		0.00	0.00	87.00	3893.46
	06/14/10	3980.46	87.12		0.00	0.00	87.12	3893.34
	07/20/10	3980.46	87.19		0.00	0.00	87.19	3893.27
	08/11/10	3980.46	87.27		0.00	0.00	87.27	3893.19
	09/21/10	3980.46	87.08		0.00	0.00	87.08	3893.38
	10/20/10	3980.46	87.28		0.00	0.00	87.28	3893.18
	11/08/10	3980.46	87.10		0.00	0.00	87.10	3893.36
	12/07/10	3980.46	87.18		0.00	0.00	87.18	3893.28
	01/18/11	3980.46	87.17		0.00	0.00	87.17	3893.29
	02/08/11	3980.46	86.94		0.00	0.00	86.94	3893.52
	03/08/11	3980.46	86.94		0.00	0.00	86.94	3893.52
	04/13/11	3980.46	87.19		0.00	0.00	87.19	3893.27
	05/23/11	3980.46	87.11		0.00	0.00	87.11	3893.35
	06/28/11	3980.46	87.40		0.00	0.00	87.40	3893.06
	07/19/11	3980.46	87.29		0.00	0.00	87.29	3893.17
	08/31/11	3980.46	87.17		0.00	0.00	87.17	3893.29
	09/27/11	3980.46	87.25		0.00	0.00	87.25	3893.21
	10/24/11	3980.46	87.33		0.00	0.00	87.33	3893.13
	11/29/11	3980.46	87.44		0.00	0.00	87.44	3893.02
	12/23/11	3980.46	87.29		0.00	0.00	87.29	3893.17
MW-19	09/20/02	4037.34	117.23		0.00	0.00	116.67	3920.67
	04/05/04	4037.34	116.67		0.00	0.00	116.67	3920.67
	05/17/04	4037.34	116.62		0.00	0.00	116.62	3920.72
	05/24/04	4037.34	116.59		0.00	0.00	116.59	3920.75
	06/01/04	4037.34	116.57		0.00	0.00	116.57	3920.77
	06/07/04	4037.34	116.59		0.00	0.00	116.59	3920.75

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/15/04	4037.34	116.53		0.00	0.00	116.53	3920.81
	06/21/04	4037.34	116.63		0.00	0.00	116.63	3920.71
	06/28/04	4037.34	116.68		0.00	0.00	116.68	3920.66
	07/06/04	4037.34	116.65		0.00	0.00	116.65	3920.69
	07/12/04	4037.34	116.66		0.00	0.00	116.66	3920.68
	07/19/04	4037.34	116.68		0.00	0.00	116.68	3920.66
	07/26/04	4037.34	116.73		0.00	0.00	116.73	3920.61
	08/02/04	4037.34	116.71		0.00	0.00	116.71	3920.63
	08/10/04	4037.34	116.71		0.00	0.00	116.71	3920.63
	08/16/04	4037.34	116.74		0.00	0.00	116.74	3920.60
	08/23/04	4037.34	116.69		0.00	0.00	116.69	3920.65
	08/30/04	4037.34	116.69		0.00	0.00	116.69	3920.65
	09/08/04	4037.34	116.73		0.00	0.00	116.73	3920.61
	10/08/04	4037.34	116.78		0.00	0.00	116.78	3920.56
	12/30/04	4037.34	116.76		0.00	0.00	116.76	3920.58
	01/17/05	4037.34	116.78		0.00	0.00	116.78	3920.56
	02/09/05	4037.34	116.76		0.00	0.00	116.76	3920.58
	03/09/05	4037.34	116.70		0.00	0.00	116.70	3920.64
	04/05/05	4037.34	116.64		0.00	0.00	116.64	3920.70
	05/10/05	4037.34	116.63		0.00	0.00	116.63	3920.71
	06/08/05	4037.34	116.57		0.00	0.00	116.57	3920.77
	07/05/05	4037.34	116.64		0.00	0.00	116.64	3920.70
	08/08/05	4037.34	116.77		0.00	0.00	116.77	3920.57
	09/15/05	4037.34	116.71		0.00	0.00	116.71	3920.63
	10/12/05	4037.34	116.70		0.00	0.00	116.70	3920.64
	11/09/05	4037.34	116.74		0.00	0.00	116.74	3920.60
	12/14/05	4037.34	116.74		0.00	0.00	116.74	3920.60
	01/12/06	4037.34	116.73		0.00	0.00	116.73	3920.61
	02/02/06	4037.34	116.70		0.00	0.00	116.70	3920.64
	03/07/06	4037.34	116.72		0.00	0.00	116.72	3920.62
	04/05/06	4037.34	116.68		0.00	0.00	116.68	3920.66
	05/08/06	4037.34	116.61		0.00	0.00	116.61	3920.73
	06/05/06	4037.34	116.66		0.00	0.00	116.66	3920.68
	07/11/06	4037.34	116.73		0.00	0.00	116.73	3920.61
	08/16/06	4037.34	116.74		0.00	0.00	116.74	3920.60
	09/07/06	4037.34	116.74		0.00	0.00	116.74	3920.60
	10/11/06	4037.34	116.80		0.00	0.00	116.80	3920.54
	11/08/06	4037.34	116.79		0.00	0.00	116.79	3920.55
	12/04/06	4037.34	116.90		0.00	0.00	116.90	3920.44
	01/04/07	4037.34	116.65		0.00	0.00	116.65	3920.69
	02/27/07	4037.34	116.71		0.00	0.00	116.71	3920.63
	03/20/07	4037.34	116.76		0.00	0.00	116.76	3920.58
	04/17/07	4037.34	116.61		0.00	0.00	116.61	3920.73
	05/07/07	4037.34	116.66		0.00	0.00	116.66	3920.68
	06/27/07	4037.34	116.59		0.00	0.00	116.59	3920.75
	07/19/07	4037.34	116.65		0.00	0.00	116.65	3920.69
	08/21/07	4037.34	116.63		0.00	0.00	116.63	3920.71
	09/17/07	4037.34	116.70		0.00	0.00	116.70	3920.64
	10/16/07	4037.34	116.66		0.00	0.00	116.66	3920.68
	11/20/07	4037.34	116.78		0.00	0.00	116.78	3920.56
	12/21/07	4037.34	116.64		0.00	0.00	116.64	3920.70
	01/22/08	4037.34	116.88		0.00	0.00	116.88	3920.46

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	02/27/08	4037.34	117.04		0.00	0.00	117.04	3920.30
	03/25/08	4037.34	116.88		0.00	0.00	116.88	3920.46
	04/29/08	4037.34	116.89		0.00	0.00	116.89	3920.45
	05/05/08	4037.34	116.82		0.00	0.00	116.82	3920.52
	06/10/08	4037.34	116.79		0.00	0.00	116.79	3920.55
	07/15/08	4037.34	116.88		0.00	0.00	116.88	3920.46
	08/19/08	4037.34	116.89		0.00	0.00	116.89	3920.45
	09/16/08	4037.34	117.17		0.00	0.00	117.17	3920.17
	10/15/08	4037.34	117.09		0.00	0.00	117.09	3920.25
	11/12/08	4037.34	116.82		0.00	0.00	116.82	3920.52
	12/11/08	4037.34	117.09		0.00	0.00	117.09	3920.25
	01/13/09	4037.34	117.28		0.00	0.00	117.28	3920.06
	02/11/09	4037.34	116.83		0.00	0.00	116.83	3920.51
	03/10/09	4037.34	116.78		0.00	0.00	116.78	3920.56
	04/13/09	4037.34	116.80		0.00	0.00	116.80	3920.54
	05/01/09	4037.34	116.77		0.00	0.00	116.77	3920.57
	06/08/09	4037.34	116.61		0.00	0.00	116.61	3920.73
	07/13/09	4037.34	116.78		0.00	0.00	116.78	3920.56
	08/10/09	4037.34	116.74		0.00	0.00	116.74	3920.60
	09/15/09	4037.34	116.62		0.00	0.00	116.62	3920.72
	10/06/09	4037.34	116.47		0.00	0.00	116.47	3920.87
	11/09/09	4037.34	116.64		0.00	0.00	116.64	3920.70
	12/23/09	4037.34	116.29		0.00	0.00	116.29	3921.05
	01/20/10	4037.34	116.27		0.00	0.00	116.27	3921.07
	02/09/10	4037.34	116.61		0.00	0.00	116.61	3920.73
	03/09/10	4037.34	116.32		0.00	0.00	116.32	3921.02
	04/12/10	4037.34	116.62		0.00	0.00	116.62	3920.72
	05/24/10	4037.34	116.37		0.00	0.00	116.37	3920.97
	06/14/10	4037.34	116.51		0.00	0.00	116.51	3920.83
	07/20/10	4037.34	116.59		0.00	0.00	116.59	3920.75
	08/11/10	4037.34	116.58		0.00	0.00	116.58	3920.76
	09/21/10	4037.34	116.49		0.00	0.00	116.49	3920.85
	10/20/10	4037.34	116.60		0.00	0.00	116.60	3920.74
	11/08/10	4037.34	116.52		0.00	0.00	116.52	3920.82
	12/07/10	4037.34	116.57		0.00	0.00	116.57	3920.77
	01/18/11	4037.34	116.38		0.00	0.00	116.38	3920.96
	02/08/11	4037.34	116.37		0.00	0.00	116.37	3920.97
	03/08/11	4037.34	116.21		0.00	0.00	116.21	3921.13
	04/13/11	4037.34	116.12		0.00	0.00	116.12	3921.22
	05/23/11	4037.34	116.35		0.00	0.00	116.35	3920.99
	06/28/11	4037.34	116.57		0.00	0.00	116.57	3920.77
	07/19/11	4037.34	116.49		0.00	0.00	116.49	3920.85
	08/31/11	4037.34	116.37		0.00	0.00	116.37	3920.97
	09/27/11	4037.34	116.38		0.00	0.00	116.38	3920.96
	10/24/11	4037.34	116.55		0.00	0.00	116.55	3920.79
	11/29/11	4037.34	116.63		0.00	0.00	116.63	3920.71
	12/23/11	4037.34	116.35		0.00	0.00	116.35	3920.99
MW-20	09/20/02	3976.92	75.90		0.00	0.00	75.90	3901.02
	04/05/04	3976.92	76.13		0.00	0.00	76.13	3900.79
	05/17/04	3976.92	76.16		0.00	0.00	76.16	3900.76
	05/24/04	3976.92	76.11		0.00	0.00	76.11	3900.81
	06/01/04	3976.92	76.14		0.00	0.00	76.14	3900.78

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/07/04	3976.92	76.10		0.00	0.00	76.10	3900.82
	06/15/04	3976.92	76.17		0.00	0.00	76.17	3900.75
	06/21/04	3976.92	76.15		0.00	0.00	76.15	3900.77
	06/28/04	3976.92	76.36		0.00	0.00	76.36	3900.56
	07/06/04	3976.92	76.24		0.00	0.00	76.24	3900.68
	07/12/04	3976.92	76.31		0.00	0.00	76.31	3900.61
	07/19/04	3976.92	76.26		0.00	0.00	76.26	3900.66
	07/26/04	3976.92	76.41		0.00	0.00	76.41	3900.51
	08/02/04	3976.92	76.28		0.00	0.00	76.28	3900.64
	08/10/04	3976.92	76.37		0.00	0.00	76.37	3900.55
	08/16/04	3976.92	76.32		0.00	0.00	76.32	3900.60
	08/23/04	3976.92	76.13		0.00	0.00	76.13	3900.79
	08/30/04	3976.92	76.30		0.00	0.00	76.30	3900.62
	09/08/04	3976.92	76.02		0.00	0.00	76.02	3900.90
	10/08/04	3976.92	74.45		0.00	0.00	74.45	3902.47
	12/30/04	3976.92	73.18		0.00	0.00	73.18	3903.74
	01/17/05	3976.92	73.89		0.00	0.00	73.89	3903.03
	02/09/05	3976.92	74.27		0.00	0.00	74.27	3902.65
	03/09/05	3976.92	74.86		0.00	0.00	74.86	3902.06
	04/05/05	3976.92	75.03		0.00	0.00	75.03	3901.89
	05/10/05	3976.92	75.28		0.00	0.00	75.28	3901.64
	06/08/05	3976.92	75.48		0.00	0.00	75.48	3901.44
	07/05/05	3976.92	75.58		0.00	0.00	75.58	3901.34
	08/08/05	3976.92	75.82		0.00	0.00	75.82	3901.10
	09/14/05	3976.92	74.48		0.00	0.00	74.48	3902.44
	10/12/05	3976.92	73.79		0.00	0.00	73.79	3903.13
	11/09/05	3976.92	74.19		0.00	0.00	74.19	3902.73
	12/14/05	3976.92	75.01		0.00	0.00	75.01	3901.91
	01/12/06	3976.92	75.47		0.00	0.00	75.47	3901.45
	02/02/06	3976.92	75.50		0.00	0.00	75.50	3901.42
	03/07/06	3976.92	75.75		0.00	0.00	75.75	3901.17
	04/05/06	3976.92	75.88		0.00	0.00	75.88	3901.04
	05/08/06	3976.92	75.89		0.00	0.00	75.89	3901.03
	06/05/06	3976.92	77.15		0.00	0.00	77.15	3899.77
	07/11/06	3976.92	76.18		0.00	0.00	76.18	3900.74
	08/16/06	3976.92	76.12		0.00	0.00	76.12	3900.80
	09/07/06	3976.92	76.26		0.00	0.00	76.26	3900.66
	06/27/07	3976.92	12.45		0.00	0.00	12.45	3964.47
	07/19/07	3976.92	79.91		0.00	0.00	79.91	3897.01
	08/21/07	3976.92	76.44		0.00	0.00	76.44	3900.48
	09/17/07	3976.92	76.58		0.00	0.00	76.58	3900.34
	10/16/07	3976.92	76.52		0.00	0.00	76.52	3900.40
	11/20/07	3976.92	76.60		0.00	0.00	76.60	3900.32
	12/21/07	3977.52	76.48		0.00	0.00	76.48	3901.04
	01/22/08	3977.52	76.75		0.00	0.00	76.75	3900.77
	02/27/08	3977.52	76.80		0.00	0.00	76.80	3900.72
	03/25/08	3977.52	76.70		0.00	0.00	76.70	3900.82
	04/29/08	3977.52	76.70		0.00	0.00	76.70	3900.82
	05/05/08	3977.52	76.68		0.00	0.00	76.68	3900.84
	06/10/08	3977.52	76.75		0.00	0.00	76.75	3900.77
	07/15/08	3977.52	76.71		0.00	0.00	76.71	3900.81
	08/19/08	3977.52	76.73		0.00	0.00	76.73	3900.79

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	09/16/08	3977.52	76.92		0.00	0.00	76.92	3900.60
	10/15/08	3977.52	76.66		0.00	0.00	76.66	3900.86
	11/12/08	3977.52	76.33		0.00	0.00	76.33	3901.19
	12/11/08	3977.52	76.38		0.00	0.00	76.38	3901.14
	01/13/09	3977.52	76.55		0.00	0.00	76.55	3900.97
	02/11/09	3977.52	76.36		0.00	0.00	76.36	3901.16
	03/10/09	3977.52	76.30		0.00	0.00	76.30	3901.22
	04/13/09	3977.52	76.46		0.00	0.00	76.46	3901.06
	05/01/09	3977.52	76.41		0.00	0.00	76.41	3901.11
	06/08/09	3977.52	76.35		0.00	0.00	76.35	3901.17
	07/13/09	3977.52	76.46		0.00	0.00	76.46	3901.06
	08/10/09	3977.52	76.47		0.00	0.00	76.47	3901.05
	09/15/09	3977.52	76.21		0.00	0.00	76.21	3901.31
	10/06/09	3977.52	76.05		0.00	0.00	76.05	3901.47
	11/09/09	3977.52	76.24		0.00	0.00	76.24	3901.28
	12/23/09	3977.52	75.91		0.00	0.00	75.91	3901.61
	01/20/10	3977.52	75.88		0.00	0.00	75.88	3901.64
	02/09/10	3977.52	76.35		0.00	0.00	76.35	3901.17
	03/09/10	3977.52	76.13		0.00	0.00	76.13	3901.39
	04/12/10	3977.52	76.36		0.00	0.00	76.36	3901.16
	05/24/10	3977.52	76.24		0.00	0.00	76.24	3901.28
	06/14/10	3977.52	76.35		0.00	0.00	76.35	3901.17
	07/20/10	3977.52	76.39		0.00	0.00	76.39	3901.13
	08/11/10	3977.52	76.42		0.00	0.00	76.42	3901.10
	09/21/10	3977.52	76.33		0.00	0.00	76.33	3901.19
	10/20/10	3977.52	76.45		0.00	0.00	76.45	3901.07
	11/08/10	3977.52	76.39		0.00	0.00	76.39	3901.13
	12/07/10	3977.52	76.45		0.00	0.00	76.45	3901.07
	01/18/11	3977.52	76.45		0.00	0.00	76.45	3901.07
	02/08/11	3977.52	76.31		0.00	0.00	76.31	3901.21
	03/08/11	3977.52	76.34		0.00	0.00	76.34	3901.18
	04/13/11	3977.52	76.52		0.00	0.00	76.52	3901.00
	05/23/11	3977.52	76.52		0.00	0.00	76.52	3901.00
	06/28/11	3977.52	76.71		0.00	0.00	76.71	3900.81
	07/19/11	3977.52	76.57		0.00	0.00	76.57	3900.95
	08/31/11	3977.52	76.52		0.00	0.00	76.52	3901.00
	09/27/11	3977.52	76.53		0.00	0.00	76.53	3900.99
	10/24/11	3977.52	76.64		0.00	0.00	76.64	3900.88
	11/29/11	3977.52	76.73		0.00	0.00	76.73	3900.79
	12/23/11	3977.52	76.63		0.00	0.00	76.63	3900.89
SK-1	03/22/02	4002.94	74.07	74.02	0.05	0.04	74.03	3928.91
	09/16/02	4002.94	74.40	74.38	0.02	0.02	74.38	3928.56
	04/05/04	4002.94	76.81	74.30	2.51	2.01	74.80	3928.14
	05/17/04	4002.94	80.67	78.17	2.50	2.00	78.67	3924.27
	06/21/04	4002.94	84.37	81.68	2.69	2.15	82.22	3920.72
	06/21/04	4002.94	80.95	78.28	2.67	2.14	78.81	3924.13
	06/07/04	4002.94	80.72	78.04	2.68	2.14	78.58	3924.36
	06/15/04	4002.94	80.69	78.03	2.66	2.13	78.56	3924.38
	06/21/04	4002.94	80.86	78.18	2.68	2.14	78.72	3924.22
	06/28/04	4002.94	80.95	78.30	2.65	2.12	78.83	3924.11
	07/06/04	4002.94	79.99	78.34	1.65	1.32	78.67	3924.27
	07/12/04	4002.94	81.03	78.38	2.65	2.12	78.91	3924.03

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/19/04	4002.94	81.16	78.38	2.78	2.22	78.94	3924.00
	07/26/04	4002.94	81.41	78.56	2.85	2.28	79.13	3923.81
	08/02/04	4002.94	81.73	78.46	3.27	2.62	79.11	3923.83
	08/10/04	4002.94	82.15	77.99	4.16	3.33	78.82	3924.12
	08/16/04	4002.94	82.84	77.77	5.07	4.06	78.78	3924.16
	08/23/04	4002.94	83.75	77.61	6.14	4.91	78.84	3924.10
	08/30/04	4002.94	84.42	77.41	7.01	5.61	78.81	3924.13
	09/08/04	4002.94	85.19	77.00	8.19	6.55	78.64	3924.30
	10/08/04	4002.94	86.99	76.24	10.75	8.60	78.39	3924.55
	12/30/04	4002.94	85.50	76.35	9.15	7.32	78.18	3924.76
	01/17/05	4002.94	82.03	76.16	5.87	4.70	77.33	3925.61
	02/09/05	4002.94	84.30	76.99	7.31	5.85	78.45	3924.49
	03/09/05	4002.94	84.20	76.83	7.37	5.90	78.30	3924.64
	04/05/05	4002.94	84.18	76.56	7.62	6.10	78.08	3924.86
	05/10/05	4002.94	84.08	76.42	7.66	6.13	77.95	3924.99
	06/08/05	4002.94	82.13	77.20	4.93	3.94	78.19	3924.75
	07/05/05	4002.94	82.29	77.27	5.02	4.02	78.27	3924.67
	08/08/05	4002.94	82.73	76.89	5.84	4.67	78.06	3924.88
	09/14/05	4002.94	79.55	75.51	4.04	3.23	76.32	3926.62
	10/12/05	4002.94	78.91	75.49	3.42	2.74	76.17	3926.77
	11/09/05	4002.94	78.76	75.44	3.32	2.66	76.10	3926.84
	12/14/05	4002.94	79.87	75.41	4.46	3.57	76.30	3926.64
	01/12/06	4002.94	78.57	75.72	2.85	2.28	76.29	3926.65
	02/02/06	4002.94	79.51	77.03	2.48	1.98	77.53	3925.41
	03/07/06	4002.94	82.32	77.57	4.75	3.80	78.52	3924.42
	04/05/06	4002.94	79.47	79.43	0.04	0.03	79.44	3923.50
	05/08/06	4002.94	78.33	78.01	0.32	0.26	78.07	3924.87
	06/05/06	4002.94	78.61	78.60	0.01	0.01	78.60	3924.34
	07/11/06	4002.94	78.28	77.64	0.64	0.51	77.77	3925.17
	08/16/06	4002.94	76.67	76.14	0.53	0.42	76.25	3926.69
	08/30/06	4002.94	76.56	76.04	0.52	0.42	76.14	3926.80
	09/07/06	4002.94	77.87	77.33	0.54	0.43	77.44	3925.50
	10/11/06	4002.94	78.24	77.66	0.58	0.46	77.78	3925.16
	11/08/06	4002.94	77.92	77.92	0.00	0.00	77.92	3925.02
	12/04/06	4002.94	78.43	78.43	0.00	0.00	78.43	3924.51
	01/04/07	4002.94	77.76	77.75	0.01	0.01	77.75	3925.19
	02/27/07	4002.94	77.15	77.14	0.01	0.01	77.14	3925.80
	03/20/07	4002.94	80.27	80.24	0.03	0.02	80.25	3922.69
	04/17/07	4002.94	80.48	80.44	0.04	0.03	80.45	3922.49
	05/07/07	4002.94	78.17	78.12	0.05	0.04	78.13	3924.81
	06/27/07	4002.94	77.88	77.79	0.09	0.07	77.81	3925.13
	07/19/07	4002.94	77.73	77.65	0.08	0.06	77.67	3925.27
	08/21/07	4002.94	77.69	77.61	0.08	0.06	77.63	3925.31
	09/17/07	4002.94	77.60	77.52	0.08	0.06	77.54	3925.40
	10/16/07	4002.94	77.46	77.43	0.03	0.02	77.44	3925.50
	11/20/07	4002.94	77.44	77.37	0.07	0.06	77.38	3925.56
	12/21/07	4005.60	77.25	77.18	0.07	0.06	77.19	3928.41
	01/22/08	4005.60	76.16	76.08	0.08	0.06	76.10	3929.50
	02/27/08	4005.60	76.15	76.08	0.07	0.06	76.09	3929.51
	03/25/08	4005.60	77.32	77.24	0.08	0.06	77.26	3928.34
	04/29/08	4005.60	77.40	77.32	0.08	0.06	77.34	3928.26
	05/05/08	4005.60	77.27	77.26	0.01	0.01	77.26	3928.34

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/10/08	4005.60	77.36	77.28	0.08	0.06	77.30	3928.30
	07/15/08	4005.60	77.34	77.26	0.08	0.06	77.28	3928.32
	08/19/08	4005.60	75.35	75.27	0.08	0.06	75.29	3930.31
	09/16/08	4005.60	75.45	75.38	0.07	0.06	75.39	3930.21
	10/15/08	4005.60	76.13	76.05	0.08	0.06	76.07	3929.53
	11/12/08	4005.60	75.45	75.38	0.07	0.06	75.39	3930.21
	12/11/08	4005.60	77.15	77.08	0.07	0.06	77.09	3928.51
	01/13/09	4005.60	77.37	77.31	0.06	0.05	77.32	3928.28
	02/11/09	4005.60	77.20	77.14	0.06	0.05	77.15	3928.45
	03/10/09	4005.60	76.96	76.89	0.07	0.06	76.90	3928.70
	04/13/09	4005.60	77.08	77.01	0.07	0.06	77.02	3928.58
	05/01/09	4005.60	76.93	76.64	0.29	0.23	76.70	3928.90
	06/08/09	4005.60	76.90	76.77	0.13	0.10	76.80	3928.80
	07/13/09	4005.60	76.98	76.75	0.23	0.18	76.80	3928.80
	08/10/09	4005.60	76.97	76.81	0.16	0.13	76.84	3928.76
	09/15/09	4005.60	77.10	76.55	0.55	0.44	76.66	3928.94
	10/06/09	4005.60	77.24	76.58	0.66	0.53	76.71	3928.89
	11/09/09	4005.60	77.51	76.53	0.98	0.78	76.73	3928.87
	12/23/09	4005.60	77.40	76.81	0.59	0.47	76.93	3928.67
	01/20/10	4005.60	77.52	76.01	1.51	1.21	76.31	3929.29
	02/09/10	4005.60	78.82	77.23	1.59	1.27	77.55	3928.05
	03/09/10	4005.60	79.35		0.00	0.00	79.35	3926.25
	04/12/10	4005.60	77.98	77.76	0.22	0.18	77.80	3927.80
	05/24/10	4005.60	77.12	76.74	0.38	0.30	76.82	3928.78
	06/14/10	4005.60	77.51	76.95	0.56	0.45	77.06	3928.54
	07/20/10	4005.60	77.30	76.75	0.55	0.44	76.86	3928.74
	08/11/10	4005.60	77.36	76.81	0.55	0.44	76.92	3928.68
	09/21/10	4005.60	77.29	76.73	0.56	0.45	76.84	3928.76
	09/28/10	4005.60	77.06	76.84	0.22	0.18	76.88	3928.72
	10/20/10	4005.60	77.20	76.80	0.40	0.32	76.88	3928.72
	11/08/10	4005.60	77.18	76.75	0.43	0.34	76.84	3928.76
	12/07/10	4005.60	77.71	77.18	0.53	0.42	77.29	3928.31
	01/18/11	4005.60	78.90	78.17	0.73	0.58	78.32	3927.28
	02/08/11	4005.60	NM					
	03/08/11	4005.60	75.85	74.94	0.91	0.73	75.12	3930.48
	04/13/11	4005.60	75.86	74.85	1.01	0.81	75.05	3930.55
	05/23/11	4005.60	75.75	74.84	0.91	0.73	75.02	3930.58
	06/28/11	4005.60	80.10	79.00	1.10	0.88	79.22	3926.38
	07/19/11	4005.60	80.19	79.06	1.13	0.90	79.29	3926.31
	08/31/11	4005.60	80.50	79.25	1.25	1.00	79.50	3926.10
	09/27/11	4005.60	80.46	79.20	1.26	1.01	79.45	3926.15
	10/24/11	4005.60	77.73	76.37	1.36	1.09	76.64	3928.96
	11/29/11	4005.60	80.15	78.78	1.37	1.10	79.05	3926.55
	12/23/11	4005.60	81.36	79.96	1.40	1.12	80.24	3925.36
SK-2	12/19/02	4004.99	72.89	72.89	0.00	0.00	72.89	3932.10
	12/20/02	4004.99	74.08	73.73	0.35	0.28	73.80	3931.19
	12/30/02	4004.99	74.01	73.63	0.38	0.30	73.71	3931.28
	01/03/03	4004.99	74.42	73.79	0.63	0.50	73.92	3931.07
	01/07/03	4004.99	74.72	74.05	0.67	0.54	74.18	3930.81
	01/10/03	4004.99	75.38	73.74	1.64	1.31	74.07	3930.92
	01/15/03	4004.99	74.32	73.71	0.61	0.49	73.83	3931.16
	01/21/03	4004.99	74.53	73.60	0.93	0.74	73.79	3931.20

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	02/17/03	4004.99	74.19	73.70	0.49	0.39	73.80	3931.19
	05/28/03	4004.99	74.54	73.79	0.75	0.60	73.94	3931.05
	06/07/04	4004.99	78.94	75.29	3.65	2.92	76.02	3928.97
	06/15/04	4004.99	79.21	75.38	3.83	3.06	76.15	3928.84
	06/21/04	4004.99	79.03	75.45	3.58	2.86	76.17	3928.82
	06/28/04	4004.99	79.63	75.62	4.01	3.21	76.42	3928.57
	07/06/04	4004.99	79.46	75.59	3.87	3.10	76.36	3928.63
	07/12/04	4004.99	79.61	75.68	3.93	3.14	76.47	3928.52
	07/19/04	4004.99	79.28	75.74	3.54	2.83	76.45	3928.54
	07/26/04	4004.99	79.63	75.83	3.80	3.04	76.59	3928.40
	08/02/04	4004.99	79.37	75.79	3.58	2.86	76.51	3928.48
	08/10/04	4004.99	79.59	75.85	3.74	2.99	76.60	3928.39
	08/16/04	4004.99	79.48	75.90	3.58	2.86	76.62	3928.37
	08/23/04	4004.99	78.97	75.83	3.14	2.51	76.46	3928.53
	08/30/04	4004.99	79.52	75.96	3.56	2.85	76.67	3928.32
	09/08/04	4004.99	79.62	76.01	3.61	2.89	76.73	3928.26
	10/08/04	4004.99	79.41	76.10	3.31	2.65	76.76	3928.23
	12/30/04	4004.99	79.14	76.16	2.98	2.38	76.76	3928.23
	01/17/05	4004.99	78.16	75.96	2.20	1.76	76.40	3928.59
	02/09/05	4004.99	79.31	76.31	3.00	2.40	76.91	3928.08
	03/09/05	4004.99	79.24	76.36	2.88	2.30	76.94	3928.05
	04/05/05	4004.99	78.57	76.17	2.40	1.92	76.65	3928.34
	05/10/05	4004.99	78.55	76.20	2.35	1.88	76.67	3928.32
	06/08/05	4004.99	77.68	76.58	1.10	0.88	76.80	3928.19
	07/05/05	4004.99	78.06	76.73	1.33	1.06	77.00	3927.99
	08/08/05	4004.99	76.63		0.00	0.00	76.63	3928.36
	09/14/05	4004.99	77.03	75.91	1.12	0.90	76.13	3928.86
	10/12/05	4004.99	76.58	75.77	0.81	0.65	75.93	3929.06
	11/09/05	4004.99	76.61	75.61	1.00	0.80	75.81	3929.18
	12/14/05	4004.99	76.93	75.76	1.17	0.94	75.99	3929.00
	01/12/06	4004.99	75.93	75.34	0.59	0.47	75.46	3929.53
	02/02/06	4004.99	76.60	75.64	0.96	0.77	75.83	3929.16
	03/07/06	4004.99	77.84	76.07	1.77	1.42	76.42	3928.57
	04/05/06	4004.99	78.40	76.26	2.14	1.71	76.69	3928.30
	05/08/06	4004.99	77.64	77.64	0.00	0.00	77.64	3927.35
	06/05/06	4004.99	76.85	76.07	0.78	0.62	76.23	3928.76
	07/11/06	4004.99	76.30	75.76	0.54	0.43	75.87	3929.12
	08/16/06	4004.99	74.80		0.00	0.00	74.80	3930.19
	08/30/06	4004.99	74.77	74.66	0.11	0.09	74.68	3930.31
	09/07/06	4004.99	75.64	75.24	0.40	0.32	75.32	3929.67
	10/11/06	4004.99	77.51	77.51	0.00	0.00	77.51	3927.48
	11/08/06	4004.99	74.99	74.99	0.00	0.00	74.99	3930.00
	12/04/06	4004.99	75.46	75.46	0.00	0.00	75.46	3929.53
	01/04/07	4004.99	74.79		0.00	0.00	74.79	3930.20
	02/27/07	4004.99	75.02	74.93	0.09	0.07	74.95	3930.04
	03/20/07	4004.99	75.98	75.72	0.26	0.21	75.77	3929.22
	04/17/07	4004.99	76.26	76.00	0.26	0.21	76.05	3928.94
	05/07/07	4004.99	75.91	75.64	0.27	0.22	75.69	3929.30
	06/27/07	4004.99	75.68	75.44	0.24	0.19	75.49	3929.50
	07/19/07	4004.99	75.28		0.00	0.00	75.28	3929.71
	08/21/07	4004.99	75.41	75.21	0.20	0.16	75.25	3929.74
	09/17/07	4004.99	75.25	75.17	0.08	0.06	75.19	3929.80

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	10/16/07	4004.99	75.22	75.05	0.17	0.14	75.08	3929.91
	11/20/07	4004.99	75.20	75.03	0.17	0.14	75.06	3929.93
	12/21/07	4004.99	75.02	74.89	0.13	0.10	74.92	3930.07
	01/22/08	4004.99	74.98	74.86	0.12	0.10	74.88	3930.11
	02/27/08	4004.99	74.33	74.25	0.08	0.06	74.27	3930.72
	03/25/08	4004.99	74.86	74.77	0.09	0.07	74.79	3930.20
	04/29/08	4004.99	75.02	74.95	0.07	0.06	74.96	3930.03
	05/05/08	4004.99	74.99	74.21	0.78	0.62	74.37	3930.62
	06/10/08	4004.99	75.06	74.99	0.07	0.06	75.00	3929.99
	07/15/08	4004.99	75.08	75.00	0.08	0.06	75.02	3929.97
	08/19/08	4004.99	74.28	74.19	0.09	0.07	74.21	3930.78
	09/16/08	4004.99	74.32	74.28	0.04	0.03	74.29	3930.70
	10/15/08	4004.99	74.28	74.22	0.06	0.05	74.23	3930.76
	11/12/08	4004.99	74.16	74.10	0.06	0.05	74.11	3930.88
	12/11/08	4004.99	74.90	74.85	0.05	0.04	74.86	3930.13
	01/13/09	4004.99	75.12	75.09	0.03	0.02	75.10	3929.89
	02/11/09	4004.99	74.91	74.86	0.05	0.04	74.87	3930.12
	03/10/09	4004.99	74.77	74.73	0.04	0.03	74.74	3930.25
	04/13/09	4004.99	74.86	74.81	0.05	0.04	74.82	3930.17
	05/01/09	4004.99	74.72	74.66	0.06	0.05	74.67	3930.32
	06/08/09	4004.99	74.65	74.60	0.05	0.04	74.61	3930.38
	07/13/09	4004.99	74.73	74.69	0.04	0.03	74.70	3930.29
	08/10/09	4004.99	74.76	74.71	0.05	0.04	74.72	3930.27
	09/15/09	4004.99	74.65	74.60	0.05	0.04	74.61	3930.38
	10/06/09	4004.99	74.61	74.54	0.07	0.06	74.55	3930.44
	11/09/09	4004.99	74.91	74.73	0.18	0.14	74.77	3930.22
	12/23/09	4004.99	74.74	74.22	0.52	0.42	74.32	3930.67
	01/20/10	4004.99	74.86	74.17	0.69	0.55	74.31	3930.68
	02/09/10	4004.99	75.86	75.00	0.86	0.69	75.17	3929.82
	03/09/10	4004.99	75.70	74.54	1.16	0.93	74.77	3930.22
	04/12/10	4004.99	76.47	74.88	1.59	1.27	75.20	3929.79
	05/24/10	4004.99	75.17	74.57	0.60	0.48	74.69	3930.30
	06/14/10	4004.99	76.66		0.00	0.00	76.66	3928.33
	07/20/10	4004.99	75.07	74.81	0.26	0.21	74.86	3930.13
	08/11/10	4004.99	75.14	74.82	0.32	0.26	74.88	3930.11
	09/21/10	4004.99	75.11	74.69	0.42	0.34	74.77	3930.22
	09/28/10	4004.99	75.20	74.88	0.32	0.26	74.94	3930.05
	10/20/10	4004.99	75.28	74.97	0.31	0.25	75.03	3929.96
	11/08/10	4004.99	75.17	74.78	0.39	0.31	74.86	3930.13
	12/07/10	4004.99	75.47	74.97	0.50	0.40	75.07	3929.92
	01/18/11	4004.99	76.03	75.21	0.82	0.66	75.37	3929.62
	02/08/11	4004.99	NM					
	03/08/11	4004.99	74.43	74.18	0.25	0.20	74.23	3930.76
	04/13/11	4004.99	74.25	74.03	0.22	0.18	74.07	3930.92
	05/23/11	4004.99	74.02	73.83	0.19	0.15	73.87	3931.12
	06/28/11	4004.99	75.53	75.32	0.21	0.17	75.36	3929.63
	07/19/11	4004.99	75.57	75.39	0.18	0.14	75.43	3929.56
	08/31/11	4004.99	75.75	75.50	0.25	0.20	75.55	3929.44
	09/27/11	4004.99	76.01	75.63	0.38	0.30	75.71	3929.28
	10/24/11	4004.99	75.91	75.31	0.60	0.48	75.43	3929.56
	11/29/11	4004.99	76.85	75.84	1.01	0.81	76.04	3928.95
	12/23/11	4004.99	77.28	75.98	1.30	1.04	76.24	3928.75

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
PHILLIPS 66
MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation

Notes:

L.P.H. = Liquid Phase Hydrocarbon

NM = not measured

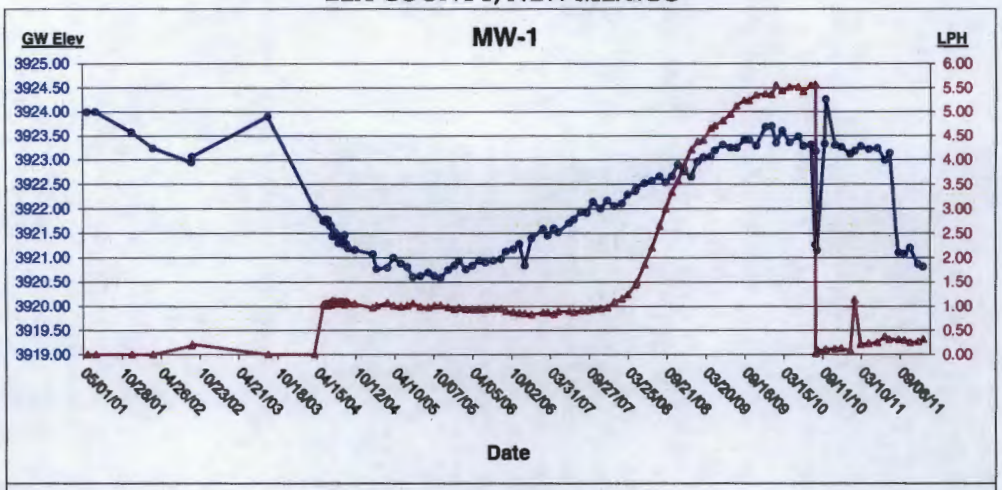
Blank Fields Indicate No Data

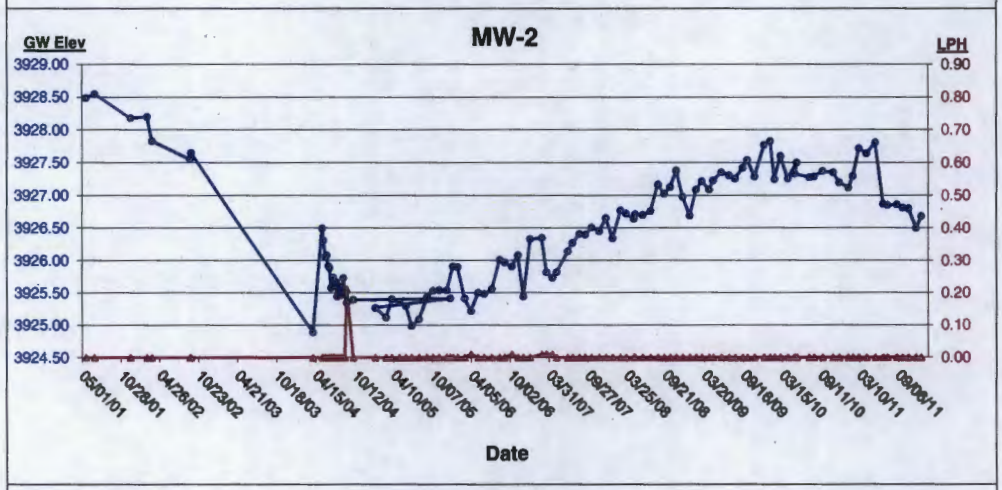
* Wells re-surveyed for location and elevation of top of casing on 12/21/07.

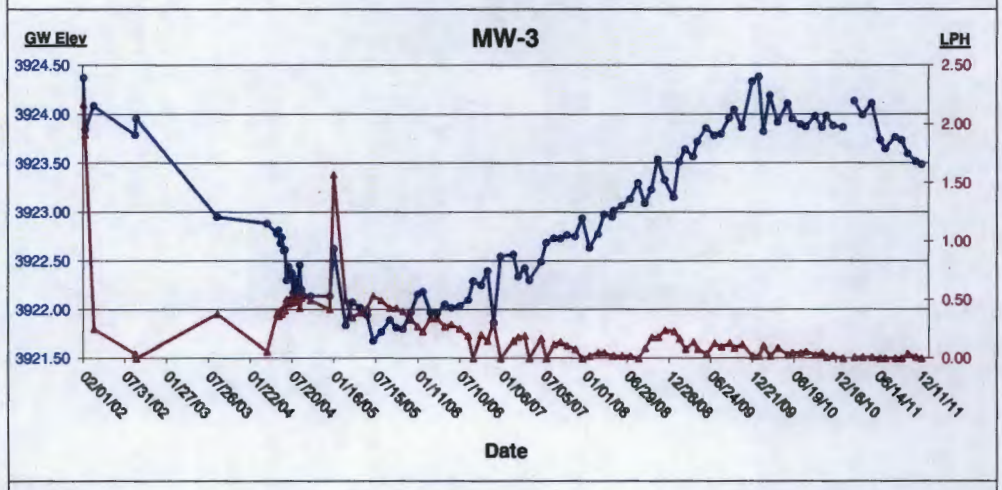
APPENDIX C

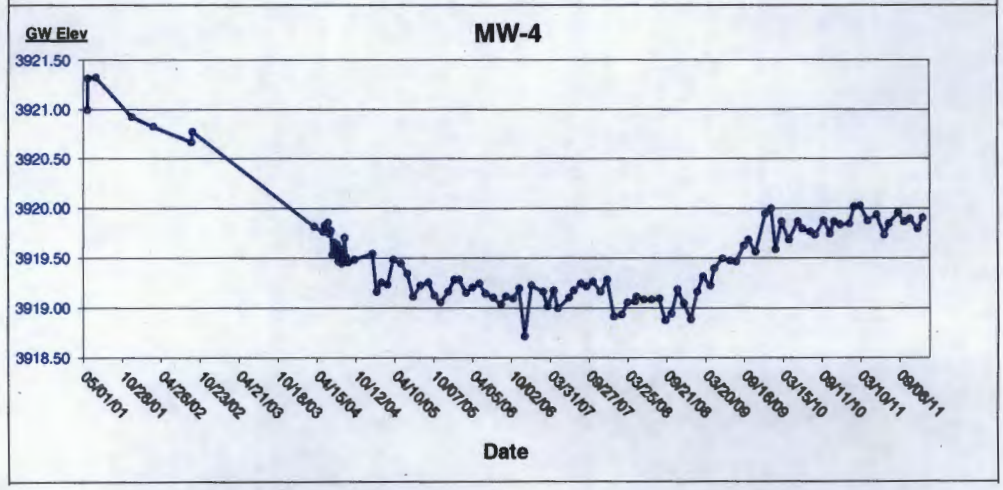
HYDROGRAPHS

HYDROGRAPHS
PHILLIPS 66 - MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

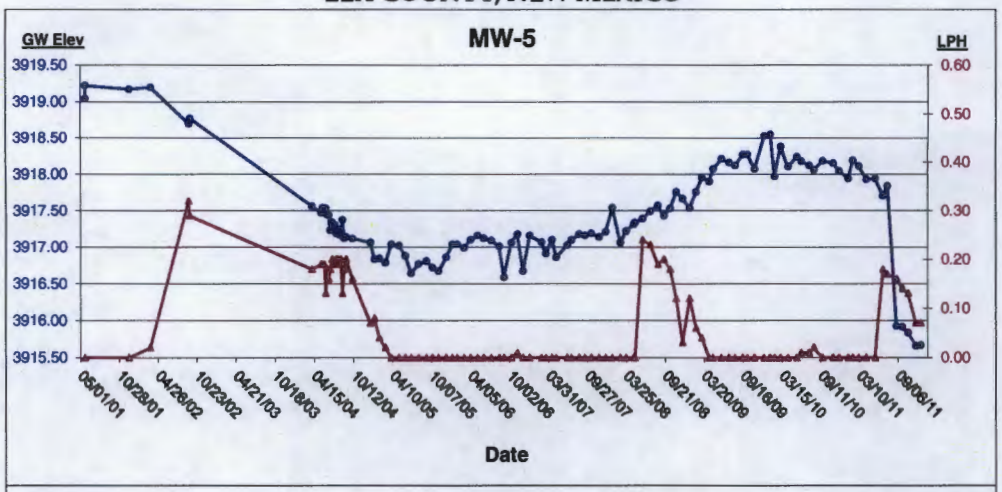


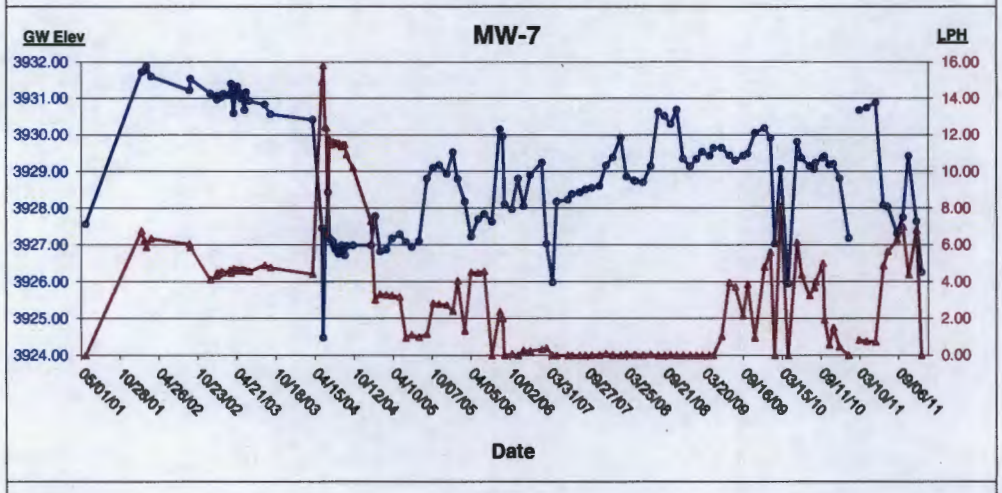


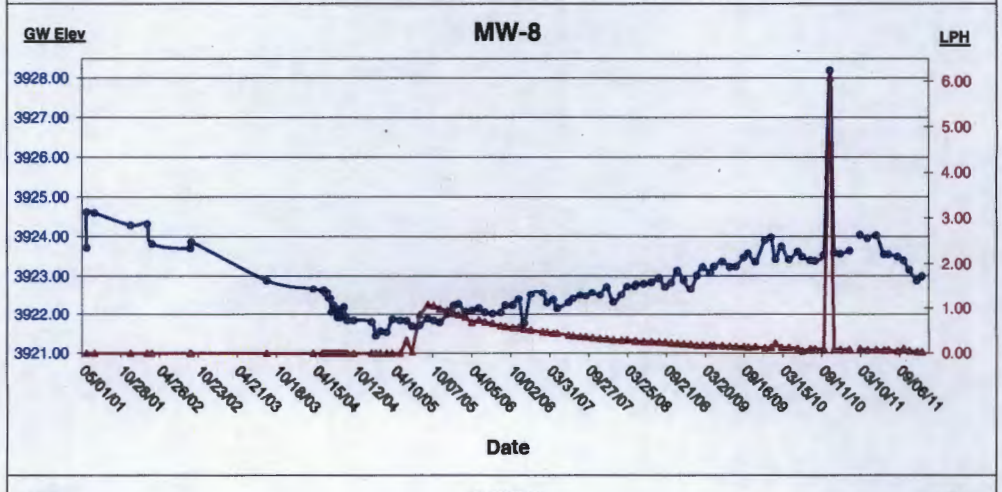


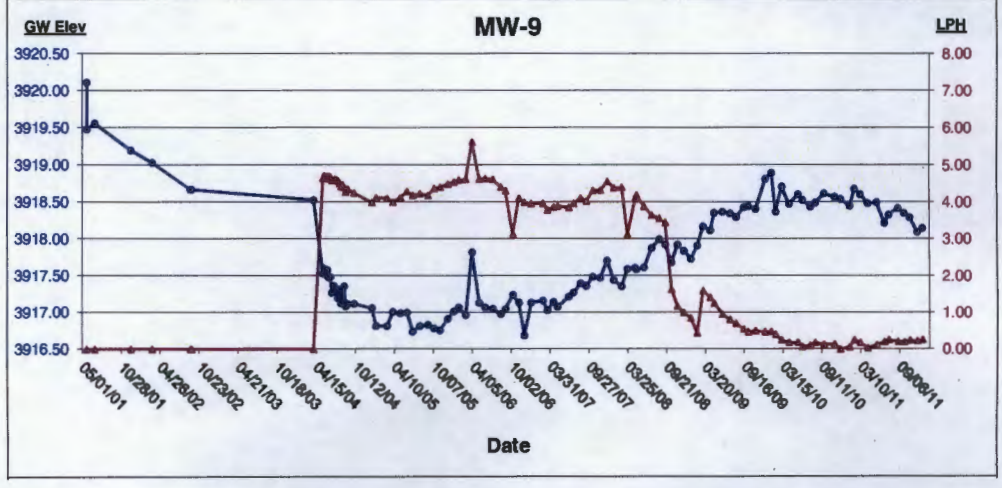


HYDROGRAPHS
PHILLIPS 66 - MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

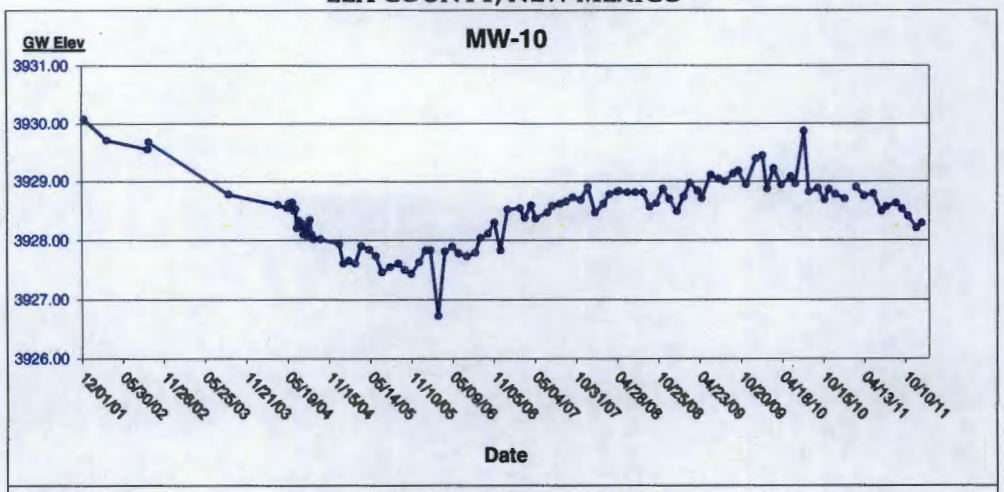


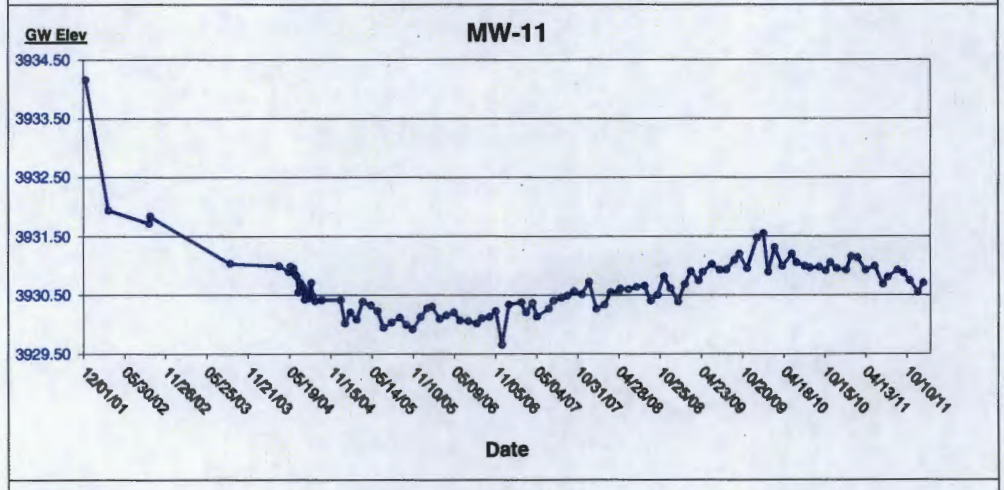


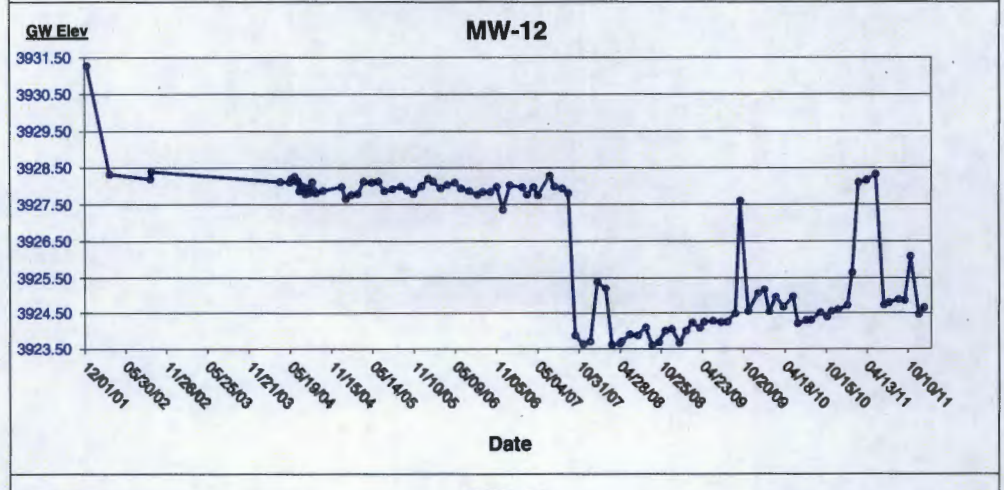


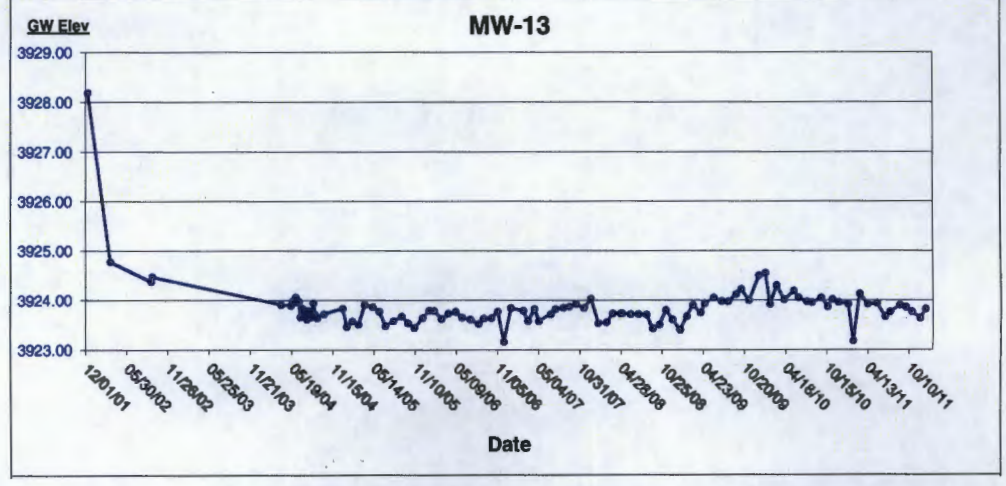


HYDROGRAPHS
PHILLIPS 66 - MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

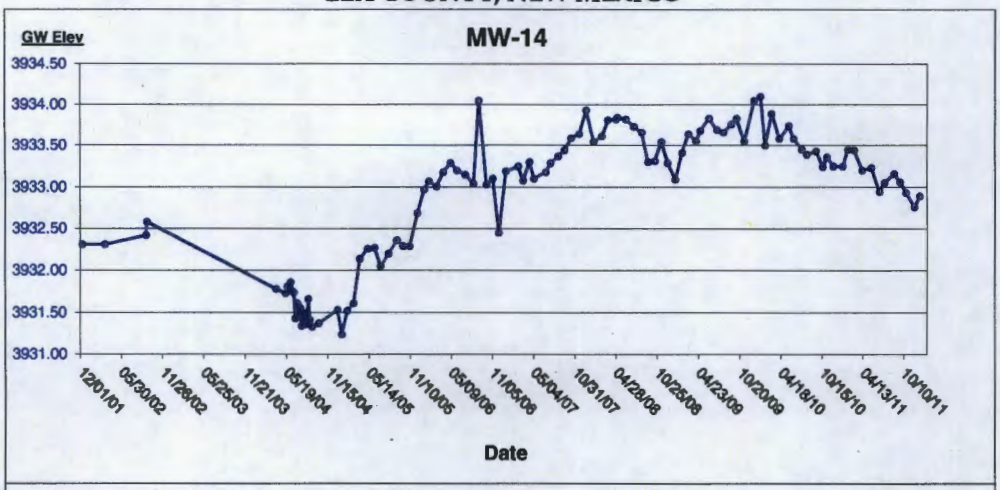


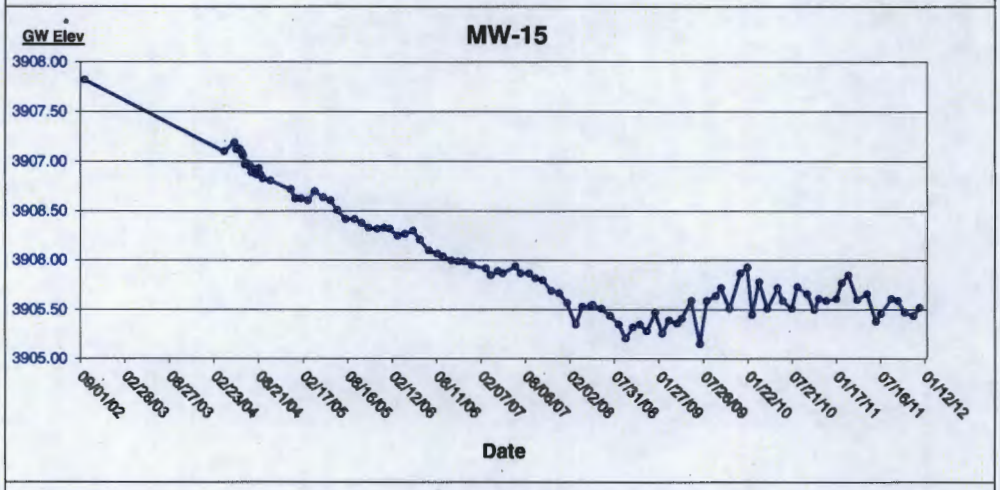


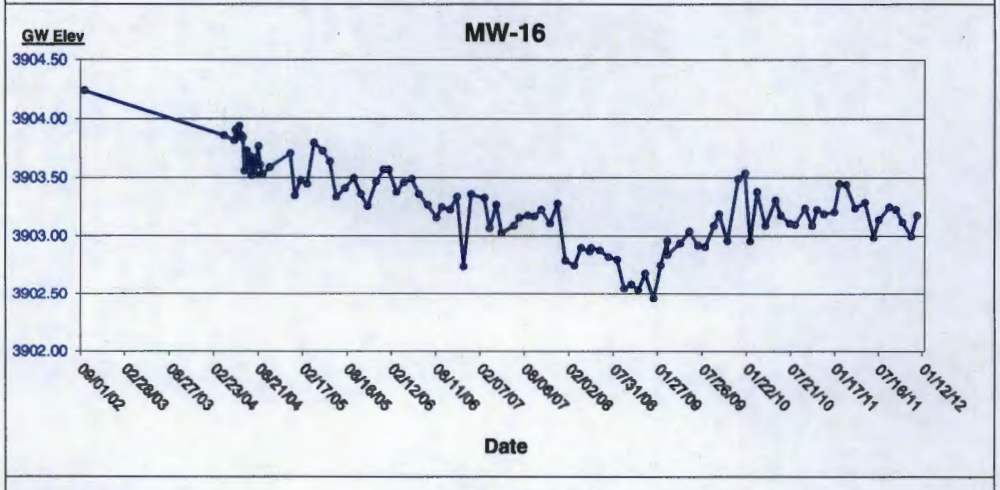


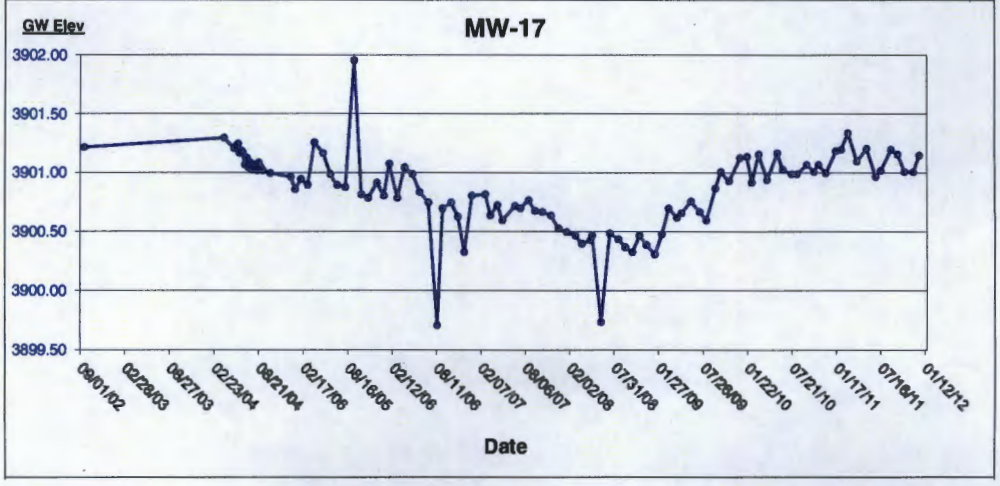


HYDROGRAPHS
PHILLIPS 66 - MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

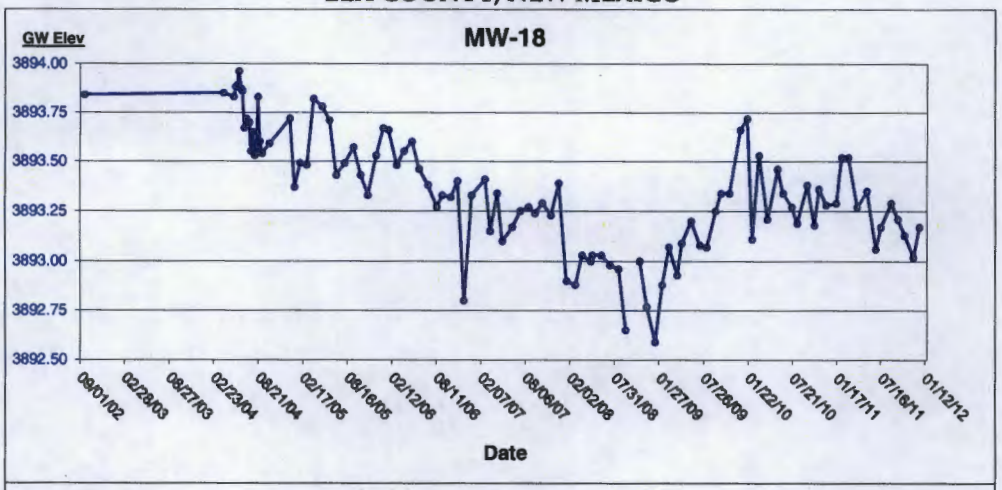


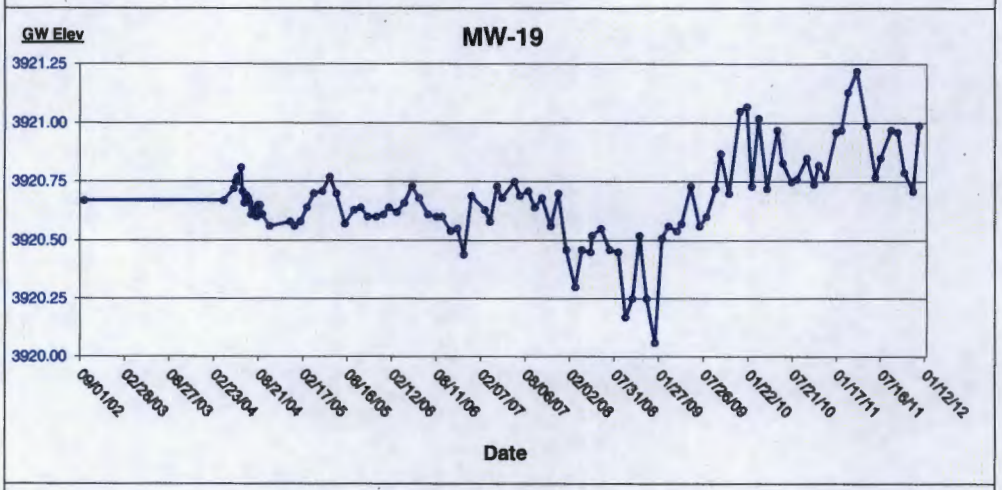


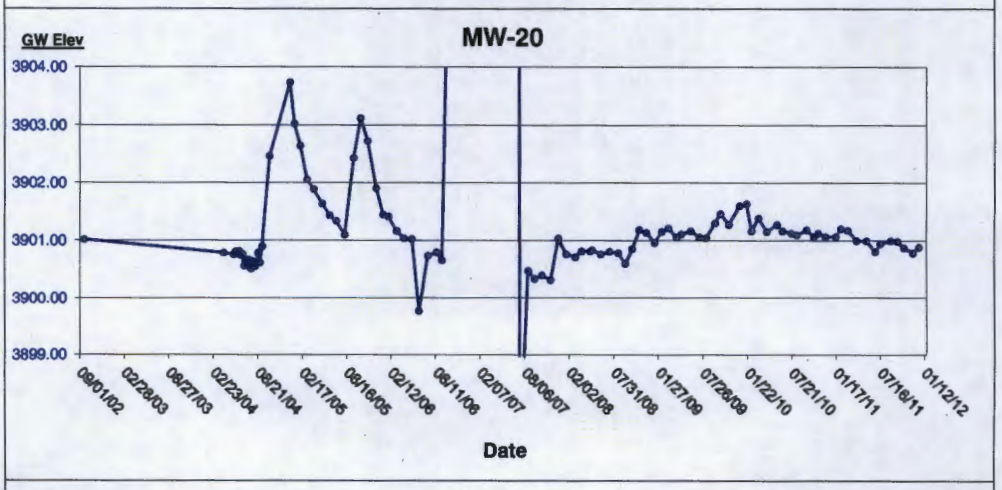


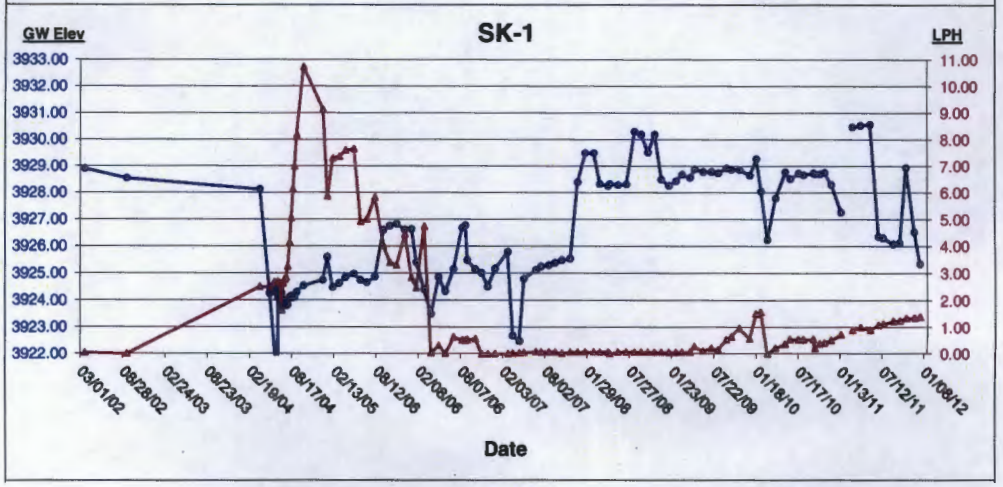


HYDROGRAPHS
PHILLIPS 66 - MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

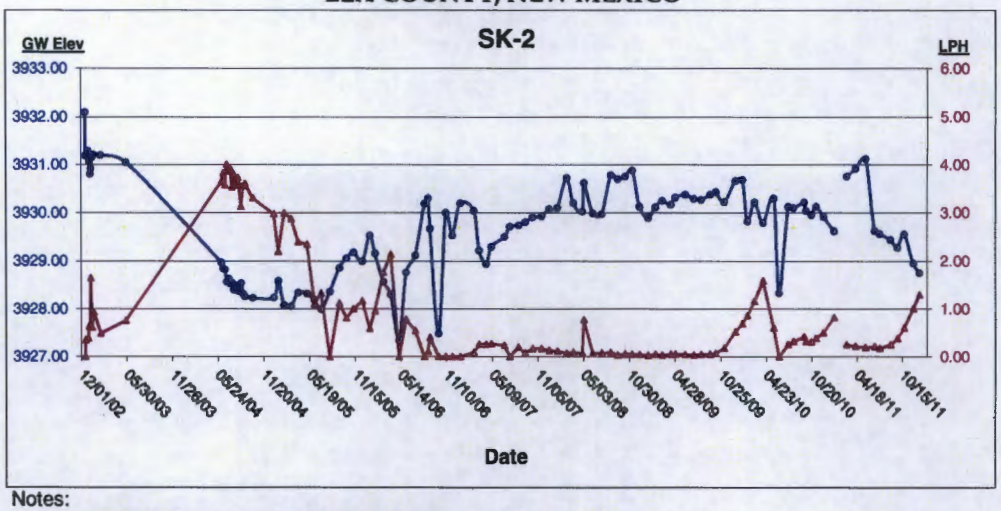








HYDROGRAPHS
PHILLIPS 66 - MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO

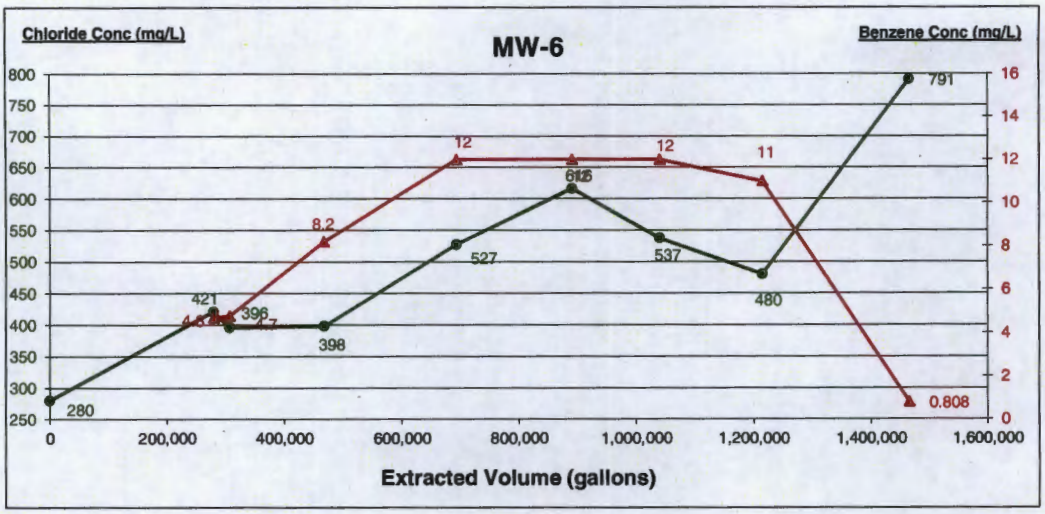


Notes:
GW Elev = Groundwater Elevation in Feet Above Mean Sea Level
LPH = Liquid Phase Hydrocarbon Thickness in Feet

APPENDIX D

CONCENTRATION VS. EXTRACTED VOLUME GRAPH

CONCENTRATION VS EXTRACTED VOLUME GRAPH
PHILLIPS 66 - MALJAMAR GAS PLANT
LEA COUNTY, NEW MEXICO



Notes:
TDS = Total Dissolved Solids
mg/L = Milligrams per liter

CONESTOGA-ROVERS
& ASSOCIATES

2270 Springlake Road, Suite 800, Dallas, Texas 75234
Telephone: (972) 331-8500 Fax: (972) 331-8501
www.CRAworld.com

AP-115

November 8, 2012

Reference No. 075018

Mr. Glenn Von Gonten
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, NM 87505

Dear Mr. Von Gonten:

Re: Annual Groundwater Monitoring and Remediation Report
January through December 2011
Maljamar Gas Plant, Maljamar, NM

Conestoga-Rovers & Associates (CRA) is submitting the attached Annual Groundwater Monitoring and Remediation Report, January through December 2011, on behalf of Phillips 66 Company.

If you have any questions or comments, please call me at (972) 331-8500.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Moshghan Mansoori
Project Manager

MM/cd/1
Encl.

cc: Tom Wynn, Phillips 66 Company