

AP-010

Annual Monitoring

DATE:

April 17, 2009

**ANNUAL MONITORING, OPERATION
AND MAINTENANCE REPORT
MARCH 2008 THROUGH FEBRUARY 2009**

**CONOCOPHILLIPS
LINE NMI-1 (AP-10)**

HOBBS, LEA COUNTY, NEW MEXICO

Prepared for:



Prepared By:



TETRA TECH, INC.

1910 N. Big Spring Street
Midland, Texas 79705

April 17, 2009



Thomas (Tom) Wynn
Site Manager
Risk Management & Remediation
1354 Phillips Building
420 South Keeler
Bartlesville, OK 74074
phone 918.661.0310
fax 918-662-4192
tom.r.wynn@conocophillips.com

April 17, 2009

Mr. Glenn VonGonten
Senior Hydrologist
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, NM 87504

**RE: ANNUAL MONITORING, OPERATION AND MAINTENANCE REPORT
MARCH 2008 THROUGH FEBRUARY 2009
ConocoPhillips Line NMI-1 (AP-10)
Hobbs, Lea County, New Mexico**

Dear Mr. VonGonten:

Pursuant to requirements set forth in Discharge Permit GW-349 for the Line NMI-1 remediation site, please find one copy of the above referenced report for your review and concurrence. This report presents an annual summary of all site activities performed from March 2008 through February 2009 relating to the operation, maintenance and monitoring of the remediation system, crude oil recovery and groundwater disposal operations, and quarterly groundwater monitoring, sampling and analyses. A request for extension of the submittal date for this report to April 17, 2009 was submitted to you and approved via electronic mail on April 3, 2009. A hardcopy of the extension approval email is attached with this letter.

If you have any questions or comments, please contact me at the above listed number or Greg Pope with Tetra Tech at (432) 682-4559.

Sincerely,

Tom Wynn
Site Manager
Risk Management and Remediation
ConocoPhillips

cc: w/ attachment

Chris Williams, NMOCD, Hobbs, NM
Greg Pope, Tetra Tech, Midland, TX

RE: Request for Extension for Submittal of Hobbs Annual Reports

VonGonten, Glenn, EMNRD [Glenn.VonGonten@state.nm.us]

Sent: Friday, April 03, 2009 9:52 AM

To: Pope, Greg

Greg:

Your request is approved. Please attach a copy of this email with your annual reports.

Glenn

From: Pope, Greg [mailto:Greg.Pope@tetrattech.com]

Sent: Tuesday, March 31, 2009 2:31 PM

To: VonGonten, Glenn, EMNRD

Cc: Tom.R.Wynn@conocophillips.com

Subject: Request for Extension for Submittal of Hobbs Annual Reports

Mr. VonGonten,

I would like to request an extension for submittal of the annual reports for the ConocoPhillips Line NM1-1 (AP-10) and East Hobbs Junction (AP-15) sites. I plan to submit these reports to you by April 17, 2009, if you are in agreement. Please call or reply with any questions or comments. Thank you.

Greg W. Pope, P.G. | Hydrogeologist/Project Manager

Office: 432.682.4559 | Cell: 432.661.3852 | Fax : 432.682.3946

greg.pope@tetrattech.com

Tetra Tech | Complex World, Clear Solutions™

1910 N. Big Spring St. | Midland, TX 79705 | www.tetrattech.com

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2009 APR 23 AM 11 24

**ANNUAL MONITORING, OPERATION
AND MAINTENANCE REPORT
MARCH 2008 THROUGH FEBRUARY 2009**

**CONOCOPHILLIPS
LINE NMI-1 (AP-10)**

HOBBS, LEA COUNTY, NEW MEXICO

Prepared for:



Prepared By:



TETRA TECH, INC.

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(432) 682-4559

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Mr. Glenn VonGonten
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, NM 87504

**RE: ANNUAL MONITORING, OPERATION AND MAINTENANCE REPORT
MARCH 2008 THROUGH FEBRUARY 2009
ConocoPhillips Line NMI-1 (AP-10)
Hobbs, Lea County, New Mexico**

INTRODUCTION

On behalf of ConocoPhillips, formerly Phillips Pipe Line Company, Tetra Tech (formerly Maxim Technologies; Maxim) is submitting the following annual status report for the Line NMI-1 remediation site (Site). The Site is located in Lea County, New Mexico (Sec 9, T19S, R38E; Figure 1), approximately one mile south of the city of Hobbs. This report has been prepared in accordance with New Mexico Oil Conservation Division's (NMOCD) Discharge Permit GW-349, issued to ConocoPhillips on October 10, 2002, for the Site. A request for extension of the submittal date for this report to April 17, 2009 was submitted to the NMOCD and approved via electronic mail on April 3, 2009. This report is a summary of the following activities performed from March 2008 through February 2009:

- Groundwater Monitoring and Sampling
- Free Petroleum Hydrocarbon Gauging, Recovery and Disposal
- Remediation System Operation and Maintenance

During this time period, no new groundwater monitoring wells or remediation wells were installed at the Site. With verbal approval from NMOCD, the groundwater extraction, treatment and re-injection system was shut down on September 21, 2005, due to detections of volatile organic compounds (VOC) reported in the monthly groundwater effluent sample collected on August 24, 2005 and the following sample collected on September 20, 2005, indicating a breakthrough in the granular activated carbon (GAC) due to VOC loading. Also,

thin measurable layers of crude oil were observed in the six (6) groundwater re-injection wells during the October 2005 groundwater monitoring event, and in two (2) of the re-injection wells in January 2006. Due to these two factors and current data, the groundwater extraction, treatment and re-injection system has remained off since September 21, 2005. The pipeline release excavation was backfilled by ConocoPhillips in June 2006.

This report also presents four quarters of groundwater monitoring data collected in April, July and October 2008, and January 2009.

All Site activities were performed according to the conditions described in Discharge Permit GW-349. A renewal application for Discharge Permit GW-349 was submitted to the NMOCD on June 26, 2007.

BACKGROUND

Project activities commenced at the Site in 1999 following the discovery of a release of crude oil from gathering line NMI-1. Assessment and remediation activities have been conducted at the Site to define and address the crude oil impacts including the installation of a comprehensive soil and groundwater remediation system. The remediation system installation consists of a crude oil recovery system, a groundwater extraction, treatment and re-injection system, and an enhanced-bioremediation system consisting of bio-venting and nutrient injection. Figure 1 illustrates the locations of the pipeline release excavation, the existing pipeline corridors, the Site monitoring and remediation wells, and the remediation system buildings and crude oil storage tank.

Higgins and Associates, L.L.C. of Centennial, Colorado (H&A) performed the installation of the remediation system, initial startup procedures, system operation and maintenance, and required Site monitoring activities until September 2003¹. On September 24, 2003, Maxim (presently Tetra Tech) assumed operation and maintenance of the system, and has continued the required Site monitoring activities.

¹ Higgins and Associates, 2000. Stage 2 Abatement Plan for Groundwater Abatement Plan AP-10, Line NMI-1 Site, Phillips Pipe Line Company, April 14, 2000.

HEALTH AND SAFETY

Tetra Tech required safety and health procedures that were appropriate for the level of environmental hazard known to exist at the Site. Procedures used complied with ConocoPhillips' "Contractors Health and Safety Standard" (revised 2009). Modified Level D Personal Protective Equipment (PPE) was adequate for the Site activities. Personnel were equipped with respirators and organic vapor cartridges in the event of a sudden release of noxious fumes from the Site. Prior to commencement of work, a Site Specific Health and Safety Plan (HASP) was prepared by Tetra Tech. The HASP was reviewed and signed by all personnel working at the Site. Safety procedures were reviewed during tailgate safety meetings conducted prior to the start of work each day.

GROUNDWATER MONITORING AND SAMPLING

Quarterly groundwater monitoring and sampling activities were conducted at the Site on April 21 and 22, July 21 and 22, and October 20 and 21, 2008, and January 19 and 20, 2009. Accessible monitoring, recovery and remediation wells were measured for groundwater elevations prior to the sampling events. Wells EW-2, IW-2, IW-3, IW-4, IW-5, IW-7, and SVE-1 were sampled during all four quarterly sampling events. Well MW-13 was sampled during three quarterly sampling events, with the exclusion of October 2008, due to very low groundwater levels in this well. Well IW-6 was not sampled during this time period due to very low water levels in this well. The groundwater samples were collected into appropriate sample containers, placed in a cooler packed with ice, and shipped under chain-of-custody to an approved laboratory for analysis of total petroleum hydrocarbons (TPH), both diesel range organics (DRO) and gasoline range organics (GRO) by Method 8015B modified, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Method 8021B, and chloride by Method E300.0. Samples collected in April 2008 were also analyzed for New Mexico Water Quality Control Commission (WQCC) metals by Methods 6010B/6020A/7470A/E300.0/ARS-026, polynuclear aromatic hydrocarbons (PAHs) by Method 8270C, and total dissolved solids (TDS) by Method 2540C per NMOCD Discharge Permit GW-349 requirements.

Groundwater elevation measurements are summarized in Table 1. Potentiometric surface maps for each of the four sampling events are included as Figures 2a, 2b, 2c, and 2d. Groundwater flow direction during all four quarterly events was generally to the south-southeast at an average gradient ranging from 0.0035 to 0.0042 feet per foot (ft/ft).

Groundwater elevations show an overall decreasing trend after peaking during the January 2005 recharge event approximately four years ago. All gauged wells have now reached their lowest groundwater level since measurements began. Hydrographs prepared for selected Site wells are included in Appendix A.

Groundwater analytical results are presented in Tables 2a, 2b, 2c, and 2d, and figures depicting the groundwater analytical results for the four quarterly sampling events are included as Figures 3a, 3b, 3c, and 3d. The laboratory analytical data is included in Appendix B. Analytical results from previous groundwater monitoring events indicated a radial dispersion of the dissolved phase components in the groundwater re-injection wells (IW's) as a possible response to the groundwater table increases seen in October 2004 and January 2005. The current analytical data show an overall decreasing trend of dissolved phase concentrations in a majority of the wells. The exception is in IW-5, where concentrations of benzene increased during the July and October 2008 sampling events (160 and 230 micrograms per liter [$\mu\text{g/L}$], respectively). However, benzene was non-detect in IW-5 during the January 2009 sampling. Concentrations of TPH show varying responses in the individual wells, as indicated on the groundwater analytical data graphs included in Appendix A. Results of the April 2008 WQCC analysis (Table 2d) reported dissolved metals at naturally occurring background concentrations, except for iron reported above WQCC Standards in IW-5 and MW-13, and barium reported above WQCC Standards in MW-13 and EW-2. Analysis for TDS reported concentrations ranging from 492 (IW-4) to 779 (IW-5) milligrams per liter (mg/L). PAH analyses reported naphthalene above WQCC Standards at 51 $\mu\text{g/L}$ in well MW-13, and 67 $\mu\text{g/L}$ in EW-2. Concentrations of methylnaphthalene constituents were also reported above WQCC Standards in EW-2 and the MW-13 duplicate sample. No other detectable concentrations of PAH constituents were reported in any of the groundwater samples during this event.

FREE PETROLEUM HYDROCARBON GAUGING

Free-phase petroleum hydrocarbons were measured in selected wells during each of the four monitoring events. The pneumatic skimmer pumps were shut off one week prior to each sampling event and removed from the recovery wells prior to measuring hydrocarbon thickness, and then reinstalled after measuring. Isopleth maps depicting liquid phase hydrocarbon (LPH) thickness for April, July and October 2008, and January 2009 are included as Figures 4a, 4b, 4c and 4d, respectively, and LPH measurements are summarized in Table 1.

LPH thicknesses have previously shown the effects of the increased groundwater levels first observed at the Site in October 2004, with the decreased LPH plume thickness thought to be in response to the heightened groundwater table rising above the established hydrocarbon smear zone and decreasing the LPH plume. However, the LPH thicknesses in the recovery wells have shown an overall increasing trend during the current reporting period, possibly due to the overall decrease in groundwater elevations at the Site. LPH levels measured during the April 2008 monitoring event showed maximum measured thicknesses of 3.47 feet in MW-7 and 2.60 feet in MW-5 (Figure 4a). LPH measurements in July 2008 show an overall slight increase in LPH thickness with a maximum thickness of 3.83 feet measured in MW-7 and 3.22 feet measured in MW-5 (Figure 4b). The LPH thickness measurements collected in October 2008 show an overall decrease in LPH thickness with a maximum thickness of 3.12 feet measured in MW-5 and 2.95 feet measured in MW-6 (Figure 4c). The LPH measurements collected in January 2009 (Figure 4d) show overall increases in LPH thickness from the previous sampling event with a maximum thickness of 3.64 feet measured in MW-6 and 3.56 feet measured in MW-7. The variances of LPH thickness measured in the crude oil recovery wells between sampling events is probably in response to the crude oil extraction and fluctuating rates of crude oil recovery in those wells. During the current sampling events, the IWs showed an overall decrease in measurable LPH from previous events, with LPH thickness ranging from 0.00 to a maximum of 0.02 feet (MW-4; October 2008). The presence of LPH in the IWs is a possible response to the groundwater table elevation increase observed October 2004 through January 2005; measurable LPH was first reported in all IWs on October 19, 2005². Depiction of the responses of LPH plume thickness and groundwater level elevation over time is shown on the hydrographs in Appendix A.

FREE PETROLEUM HYDROCARBON RECOVERY

The pneumatic recovery system consists of Durham Geo F.A.P. Plus pumps installed in wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, SVE-2, EW-1 and EW-2. The recovery system pumps crude oil from the wells through petroleum rated hoses contained in PVC piping to a bermed 140-barrel aboveground storage tank (AST) located adjacent to the recovery system compound (Figure 1). Additional crude oil was previously collected from the oil/water separator (OWS) into a 525-gallon AST; however, this system is currently out of service. From

² Maxim Technologies., 2006. Annual Monitoring, Operation and Maintenance Report: March 2005 through February 2006, ConocoPhillips Line NMI-1 (AP-10), Hobbs, Lea County, New Mexico. April 12, 2006.

April 20, 2002 to February 26, 2009, the system has recovered approximately 1,010 barrels of crude oil. From initial abatement activities and ongoing product removal activities, approximately 1,320 barrels of crude oil have been recovered through February 2009.

Due to the reduction of LPH thicknesses in the recovery wells observed since October 2004 and January 2005, the crude oil extraction rate decreased from previous levels while the recovery of groundwater increased³. To counter this effect, several tasks have been performed to enhance crude oil recovery rates while reducing the amount of groundwater being recovered including: collecting weekly measurements of LPH thickness in the recovery wells; adjusting the skimmer pump intake depths according to fluctuations in the crude oil/groundwater interface; adjusting the pumping cycle of the skimmer pumps; and, rotating wells on and offline according to the thickness of crude oil measured in the well. During the June 2005 meeting with NMOCD in Santa Fe, a rule of thumb was established that assumed 0.5 feet of crude oil thickness would be used as criteria for returning a recovery well to operation. This condition has been used with some exception in that wells will remain online while showing less than 0.5 feet of crude oil if they are not pumping groundwater. Also, fine tuning the pumping cycle has allowed some of the wells to remain constantly online without recovering significant groundwater.

GROUNDWATER DISPOSAL ACTIVITIES

On June 16, 2008, approximately 75 barrels of recovered groundwater and a minor amount of crude oil were removed from the oil storage tank and transported by Pate Trucking to Sundance Services in Eunice, New Mexico for disposal.

On October 14, 2008, approximately 58 barrels of recovered groundwater and a minor amount of crude oil were removed from the oil storage tank and transported by Pate Trucking to Sundance Services in Eunice, New Mexico for disposal. Also on October 14, 2008, ConocoPhillips removed approximately 33 barrels of crude oil from the oil storage tank and injected it into the Gaines Station pipeline.

³ Tetra Tech, Inc., 2007. Annual Monitoring, Operation and Maintenance Report: March 2006 through February 2007, ConocoPhillips Line NMI-1 (AP-10), Hobbs, Lea County, New Mexico. March 30, 2007.

The C-117A disposal permits for these groundwater disposal activities are included in Appendix C.

SYSTEM OPERATION AND MAINTENANCE

The remediation system equipment operation and maintenance schedule was performed according to manufacture recommendations and included periodic oil and oil filter changes, air filter replacement, motor bearing lubrication and air/oil separator maintenance on the Sullivan/Palatek 20D air compressor; periodic checking of the motor bearings on the Rotron soil vapor extraction (SVE) blower; replacement of fuses and indicator bulbs on the system control panel as needed; monitoring and replacement/repair of gauges, fittings, air regulators and hoses on the pneumatic pumps and wellhead assemblies; monitoring and periodic leak checking on the bio-venting and nutrient injection wellheads; and routine monitoring of all system fittings, hoses, sight glasses, gauges, valves, seals, lines, bearings, control switches and solenoids. The operation and maintenance schedule also included recording the system gauge, timer and totalizer readings for monitoring of system functions over time.

The SVE system was routinely monitored for vacuum readings at the blower intake manifold, well inlet header and SVE wellheads; blower exhaust stack flow rate, temperature, and effluent concentrations of VOC; and volume of oil recovered in the condensate separator. Oil recovered by the SVE condensate separator was transferred to the OWS and ultimately accumulated into a storage tank for disposal. The nutrient injection system is currently being used for air sparging only using ambient air.

CONCLUSIONS

Based on the data presented in this report, the following conclusions can be determined:

- Analytical results from the recent four quarters of groundwater sampling show that the lateral dispersion of dissolved phase components in response to the groundwater elevation increases observed at the Site in October 2004 and January 2005 have generally decreased. Groundwater levels measured during the recent sampling events show they peaked in January 2005 and are in a decreasing trend, with all gauged wells reaching their lowest groundwater level since measurements began.

- The LPH plume shows a general increase in thickness during the four reporting quarters as the plume reestablishes and responds to the changes in groundwater levels. The variances of LPH thickness measured in the crude oil recovery wells between sampling events is in response to the crude oil extraction and fluctuating rates of crude oil recovery in those wells.
- During the current sampling events, the IWs showed an overall decrease in measurable LPH from previous events. Thin measurable levels of LPH were observed in well IW-4 during the last two quarterly sampling events in October 2008 and January 2009, and in three additional IWs during the January 2009. No measurable LPH was observed in the IWs during the April and July 2008 sampling events.
- Due to BTEX detections in effluent discharge samples, indicating a breakthrough in the GAC due to VOC loading, the groundwater extraction, treatment and re-injection system was shutdown on September 21, 2005, with verbal approval from NMOCD and continues to remain shutdown.
- From initial abatement activities through February 2009, the crude oil recovery system has recovered approximately 1,320 barrels of crude oil. Groundwater recovery by the oil skimmer system has decreased, due to an enhanced maintenance schedule to reduce groundwater recovery by the skimmer wells.
- The requirement to analyze groundwater samples from the Site annually for WQCC metals, PAH and TDS was completed and will continue as necessary. Detectable concentrations of naphthalene and methylnaphthalene constituents were reported in wells MW-13 and EW-2. No other PAH constituents were reported in any of the sampled wells. WQCC dissolved metals were reported at naturally occurring background concentrations, with the exception of iron in IW-5 and MW-13 and barium in MW-13 and EW-2.
- Submittal of this report fulfills the compliance requirements outlined in ConocoPhillips Discharge Permit GW-349.

RECOMMENDATIONS

Based on the results and conclusions presented in this report, the following recommendations are presented:

- Continue the enhanced maintenance schedule on the crude oil skimmer system to improve the recovery of crude oil and reduce or eliminate recovered groundwater.
- Continue operation of the bioremediation system to counter the dispersion of dissolved phase constituents utilizing ambient air for the air sparging component of this system.
- Perform quarterly groundwater monitoring and sampling activities at the Site according to established procedures. The next sampling event is scheduled for the latter part of April 2009 and will include the annual WQCC analyses.

Should you have any questions or comments upon review of this report, please contact Mr. Tom Wynn at (918) 661-0310 or myself at (432) 682-4559.

Sincerely,

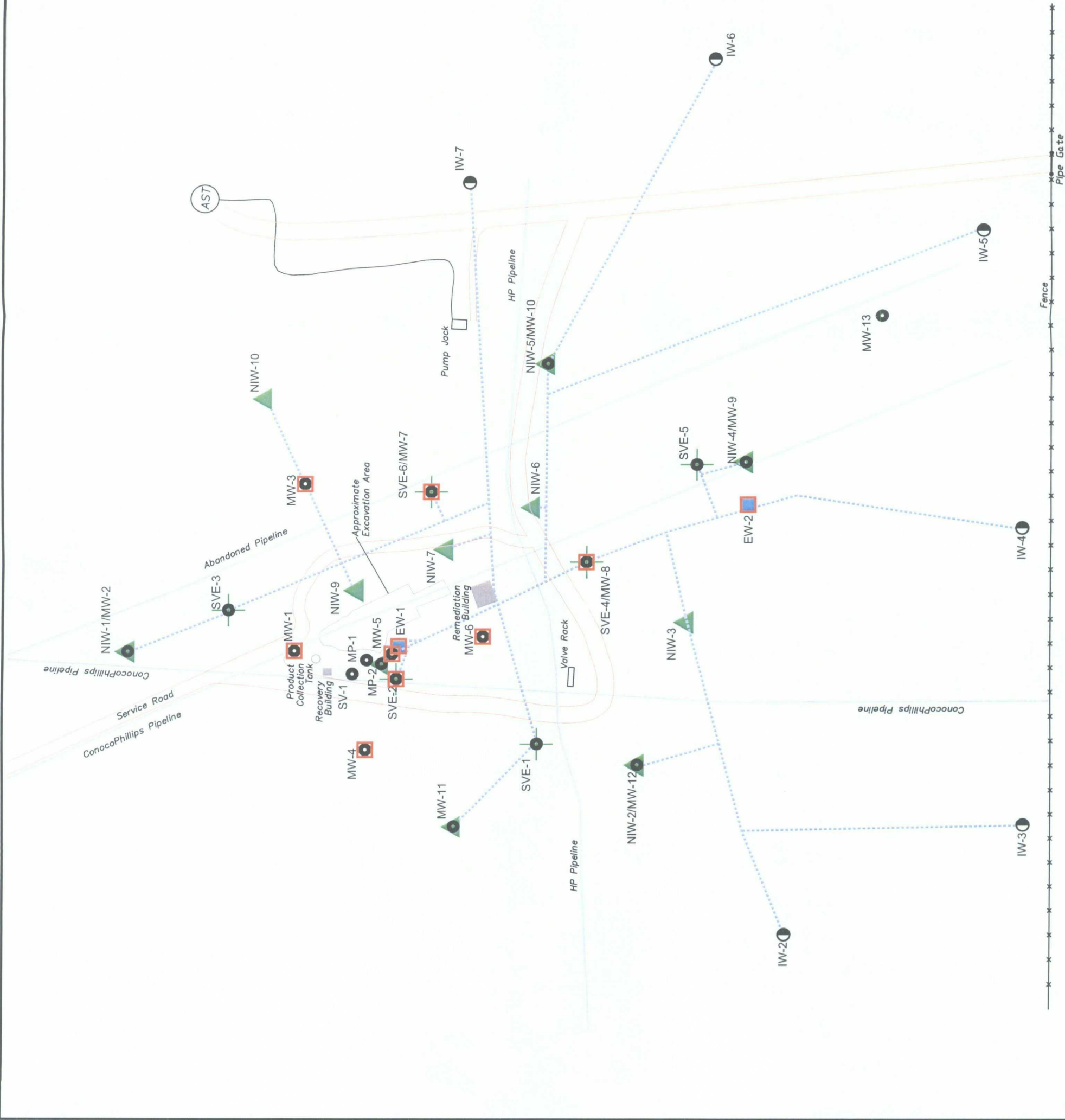
TETRA TECH



Greg W. Pope, P.G.
Project Manager

FIGURES

Figure 1	Site Map
Figure 2a	Groundwater Contour Map – April 2008
Figure 2b	Groundwater Contour Map – July 2008
Figure 2c	Groundwater Contour Map – October 2008
Figure 2d	Groundwater Contour Map – January 2009
Figure 3a	Summary of Groundwater Analytical Results – April 2008
Figure 3b	Summary of Groundwater Analytical Results – July 2008
Figure 3c	Summary of Groundwater Analytical Results – October 2008
Figure 3d	Summary of Groundwater Analytical Results – January 2009
Figure 4a	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – April 2008
Figure 4b	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – July 2008
Figure 4c	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – October 2008
Figure 4d	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – January 2009



LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor



FIGURE 1 : SITE MAP

		 TETRA TECH, INC.	
LINE NM 1-1		DATA COLLECTED : JAN 20, 2009	
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E		PROJECT NO : 9640005 MODIFIED BY : GWP DATE MODIFIED : 03/27/2009	
		ACAD File : NM1_1 Site Map 2009.dwg	

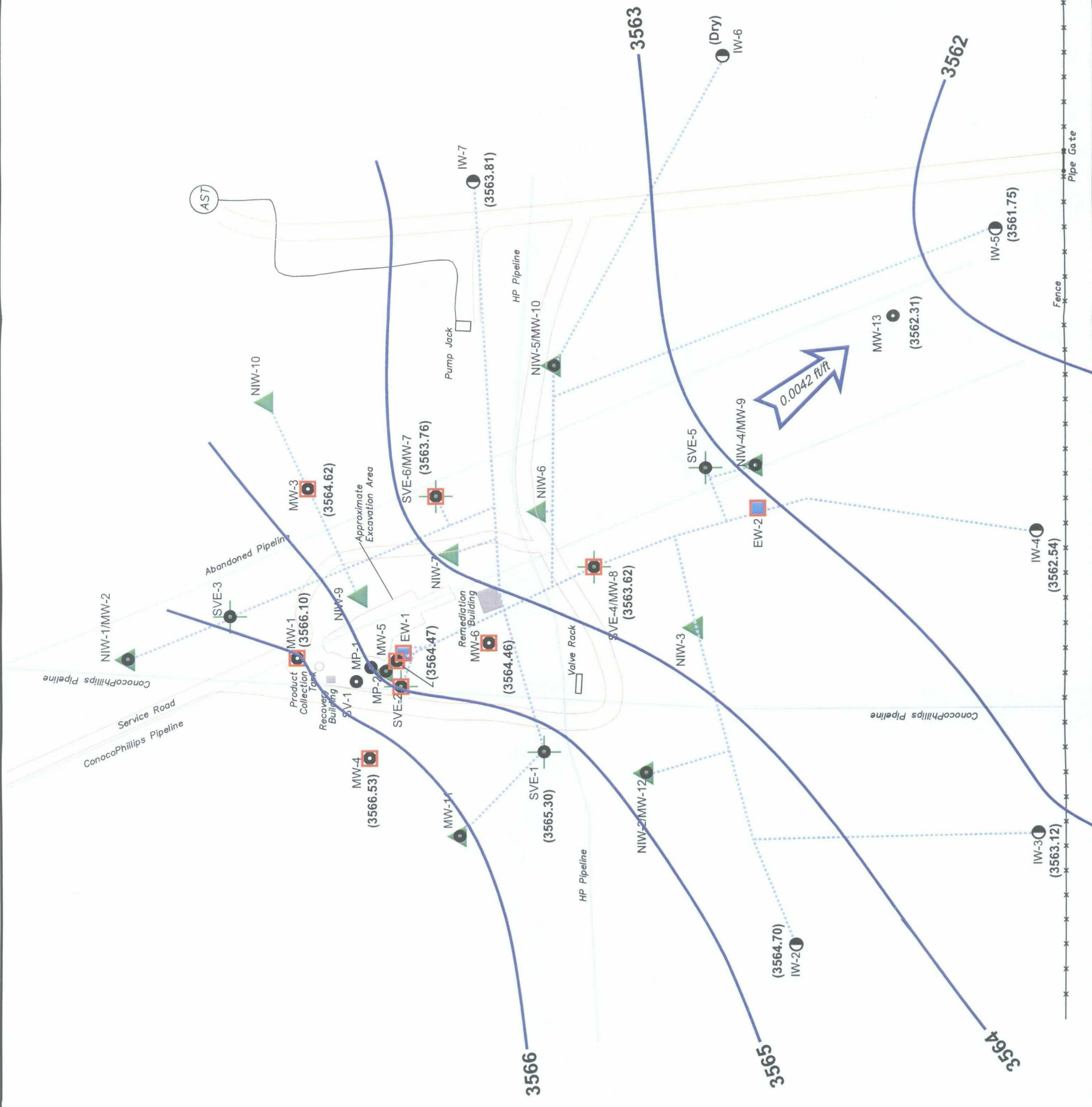
LEGEND

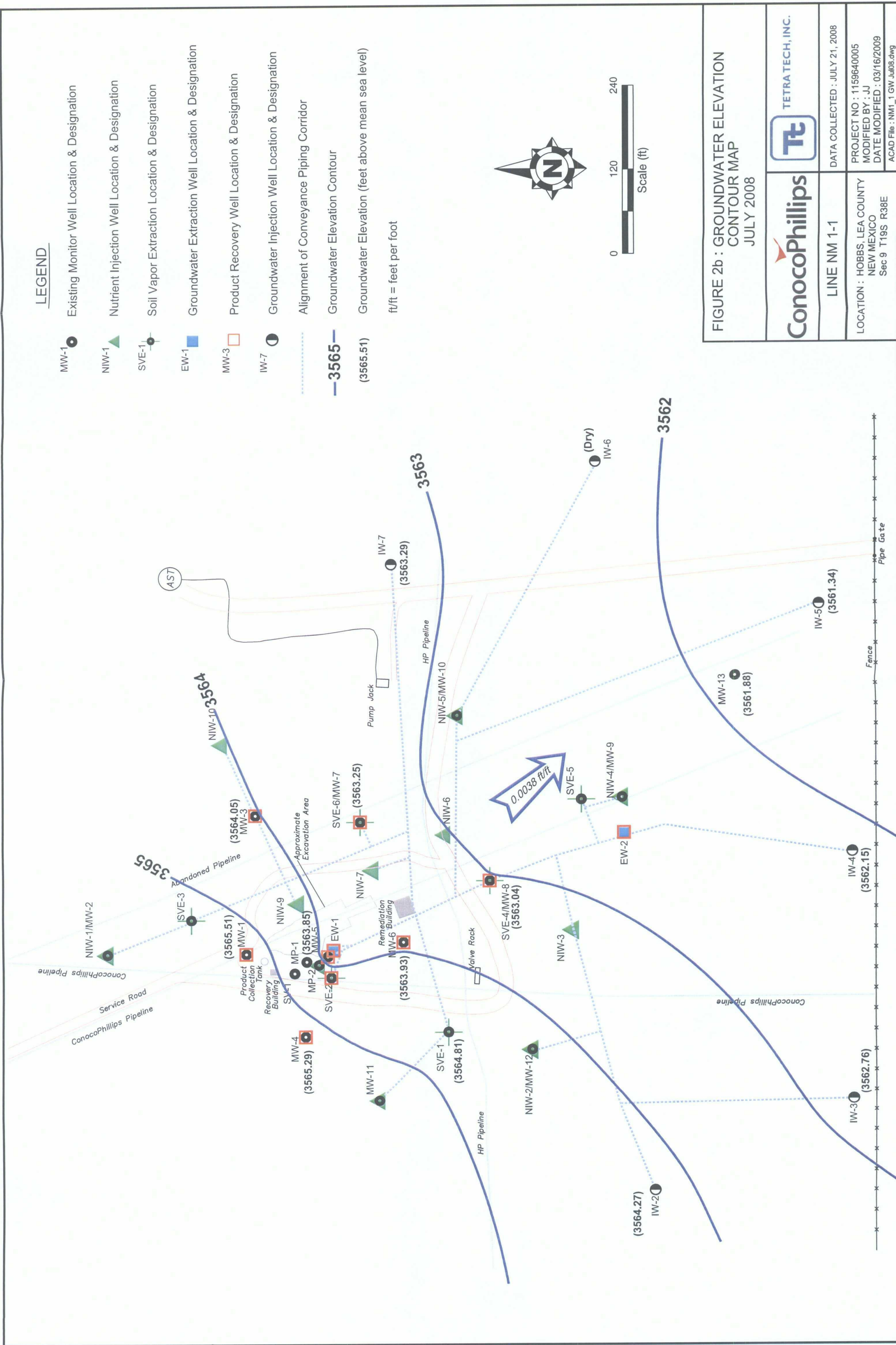
- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- Groundwater Elevation Contour
- Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot



FIGURE 2a : GROUNDWATER ELEVATION
CONTOUR MAP
APRIL 2008

	TETRA TECH, INC.		
	LINE NM 1-1	DATA COLLECTED : APRIL 21, 2008	PROJECT NO : 1159640005 MODIFIED BY : JJ DATE MODIFIED : 03/16/2009 ACAD File : NM1_1 GW Apr08.dwg
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E			





LEGEND

- MW-1 Existing Monitor Well Location & Designation
 - NIW-1 Nutrient Injection Well Location & Designation
 - SVE-1 Soil Vapor Extraction Location & Designation
 - EW-1 Groundwater Extraction Well Location & Designation
 - MW-3 Product Recovery Well Location & Designation
 - IW-7 Groundwater Injection Well Location & Designation
 - Alignment of Conveyance Piping Corridor
 - Groundwater Elevation Contour
 - Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot



FIGURE 2b : GROUNDWATER ELEVATION
CONTOUR MAP
JULY 2008

	LINE NM 1-1	DATA COLLECTED : JULY 21, 2008	PROJECT NO : 1159640005 MODIFIED BY : JJ DATE MODIFIED : 03/16/2009 ACAD File : NM1_1 GW Jul08.dwg
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E			

LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- Groundwater Elevation Contour
- Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

—3565—

(3565.14)



FIGURE 2c : GROUNDWATER ELEVATION
CONTOUR MAP
OCTOBER 2008

ConocoPhillips

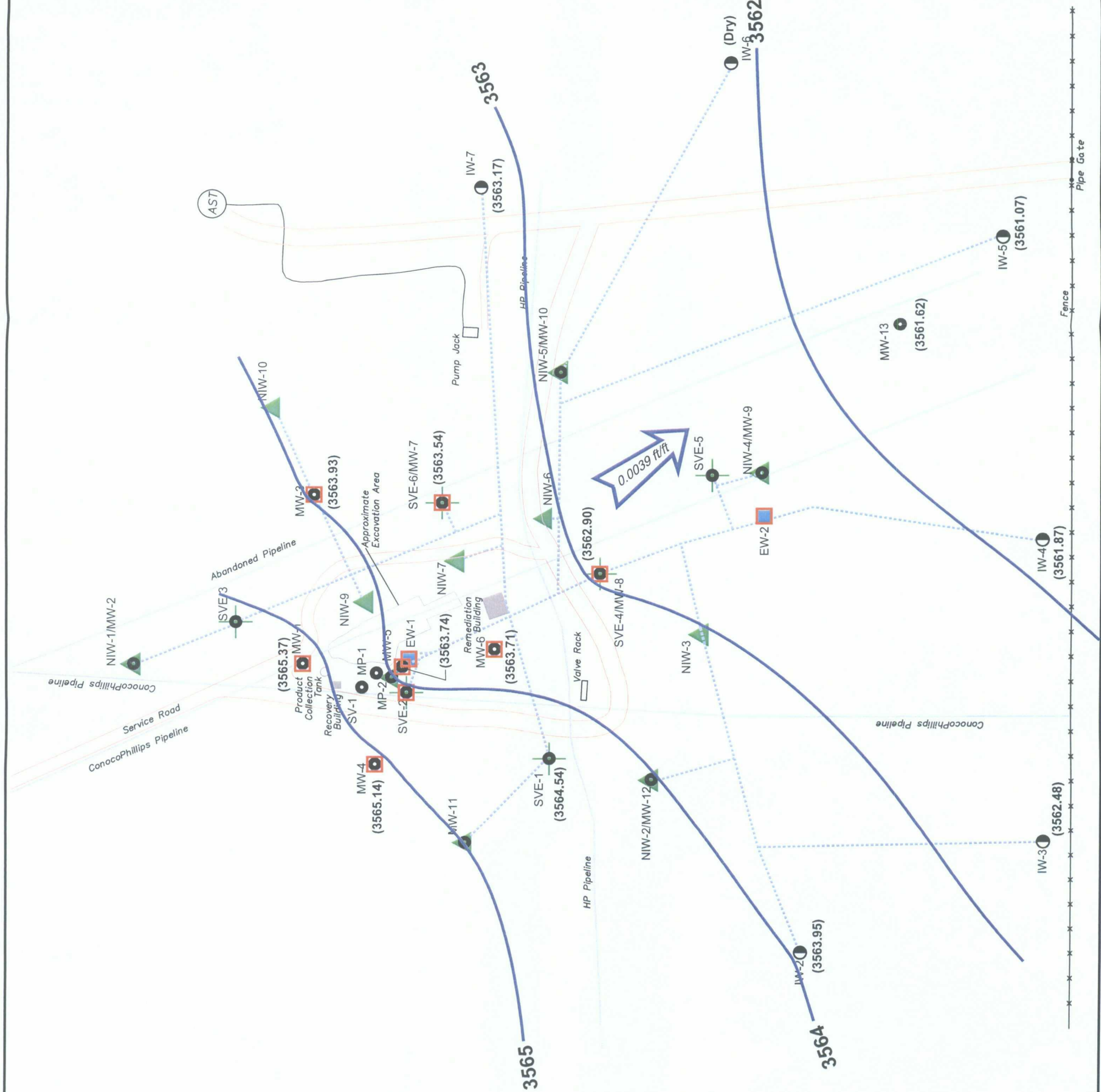


LINE NM 1-1

DATA COLLECTED : OCT 20, 2008

LOCATION : HOBBS, LEA COUNTY
NEW MEXICO
Sec 9 T19S R38E

PROJECT NO : 1159640005
MODIFIED BY : JJ
DATE MODIFIED : 03/09/2009
ACAD File : NM1_1 GW Oct08.dwg



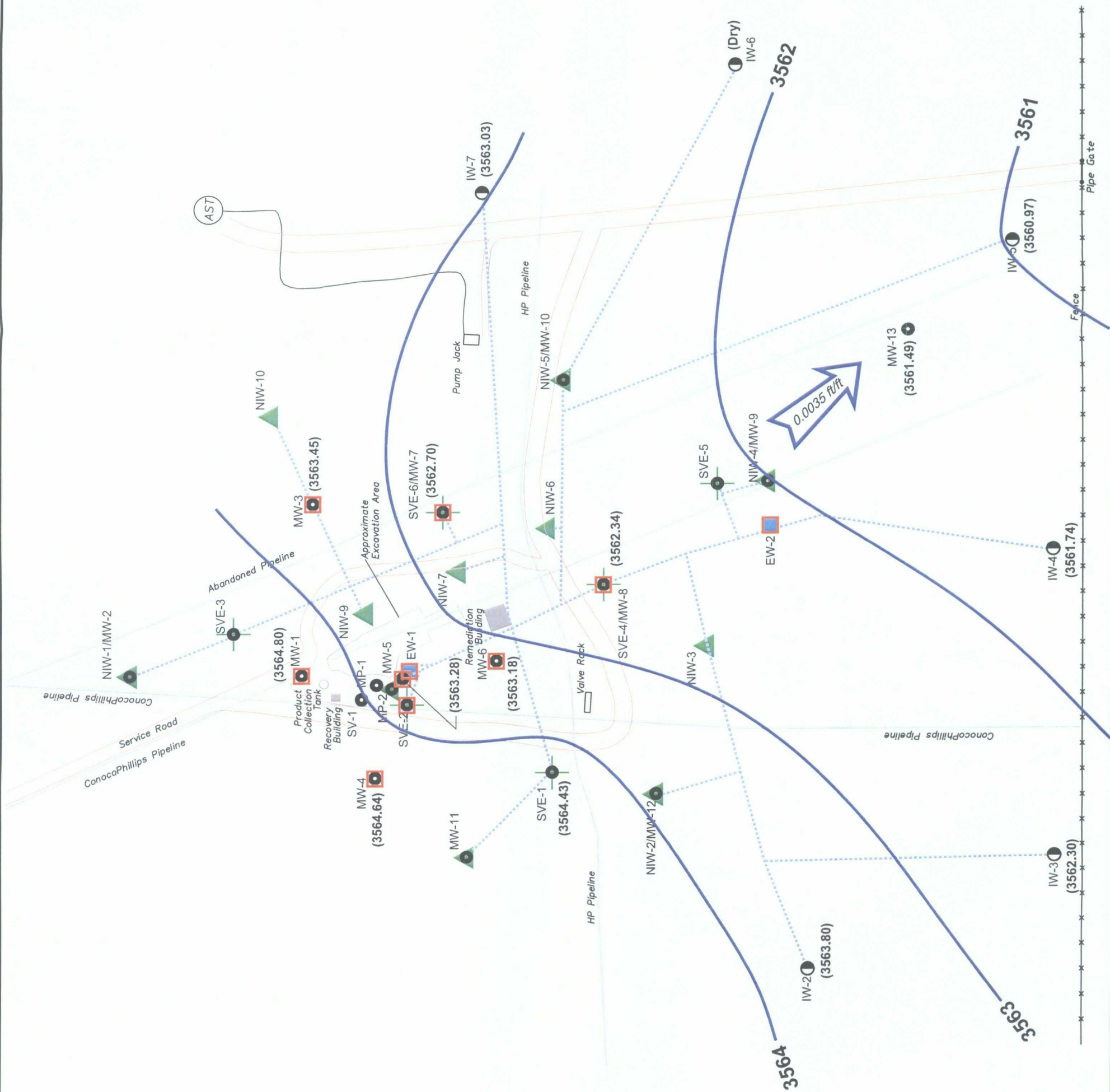
LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 3564— Groundwater Elevation Contour
- (3564.64) Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot



FIGURE 2d : GROUNDWATER ELEVATION
CONTOUR MAP
JANUARY 2009

ConocoPhillips		Tetra Tech, Inc.	
LINE NM 1-1		DATA COLLECTED : JAN 19, 2009	
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E		PROJECT NO : 1159640005 MODIFIED BY : JJ DATE MODIFIED : 03/09/2009	
		ACAD File : NM1_1 GW Jan09.dwg	



LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor

ANALYTICAL DATA

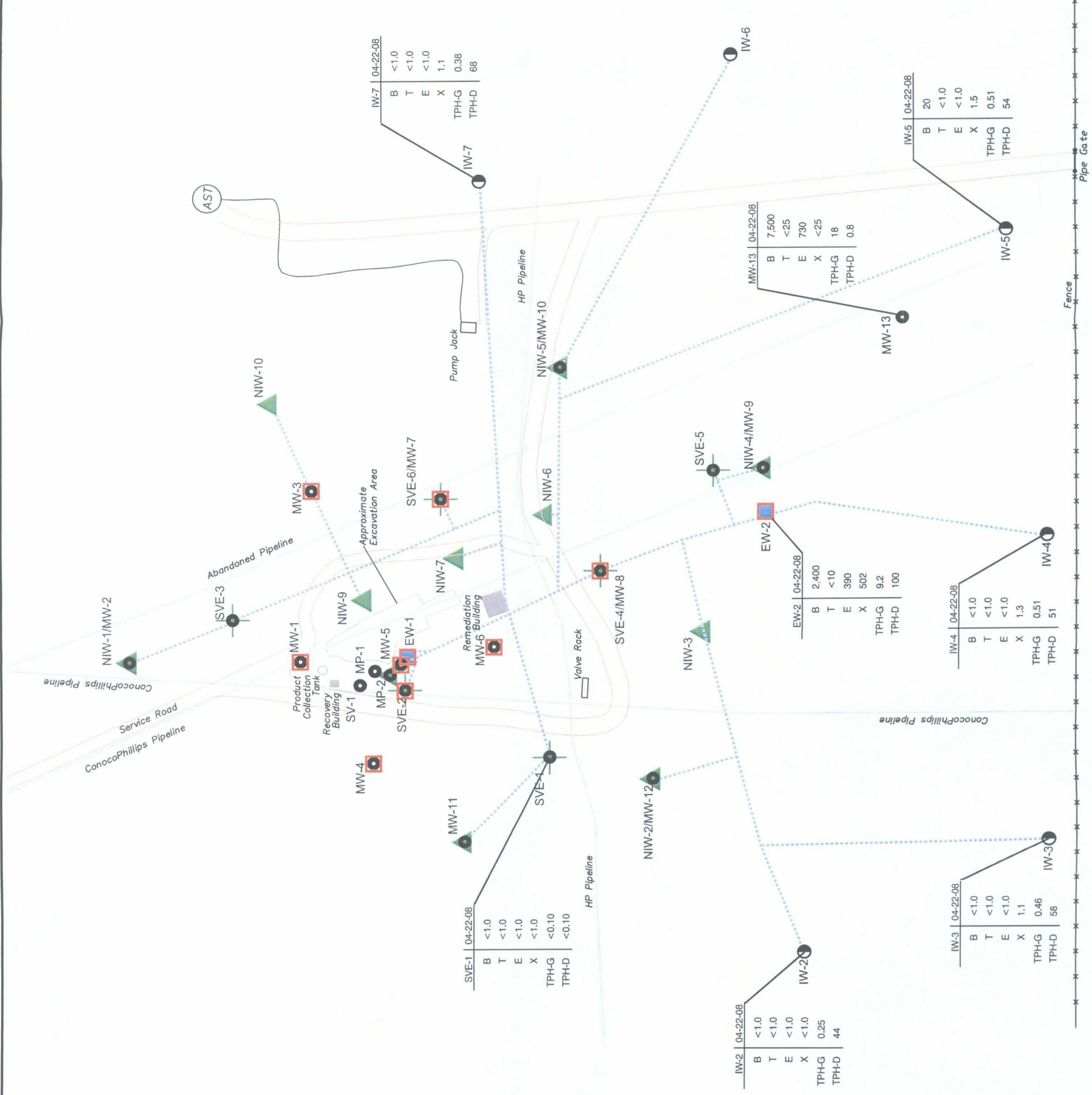
Well Number	Sample Date			
	B	T	E	X
$\mu\text{g/L}$				
	Benzene	Toluene	Ethylbenzene	Xylenes (Total)
TPH-G				
TPH-D				
mg/L				
	Total Volatile Petroleum Hydrocarbons (TPH-GRO)			
	Total Extractable Petroleum Hydrocarbons (TPH-DRO)			

$\mu\text{g/L}$ = micrograms per liter
 mg/L = milligrams per liter



FIGURE 3a : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
APRIL 2008

ConocoPhillips		Tetra Tech, Inc.	
LINE NM 1-1		DATA COLLECTED : APRIL 22, 2008	
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E		PROJECT NO : 9640005 MODIFIED BY : GWP DATE MODIFIED : 03/27/2009	
		ACAD File : NM1_1 GW Results Apr08.dwg	



LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation

Alignment of Conveyance Piping Corridor

ANALYTICAL DATA

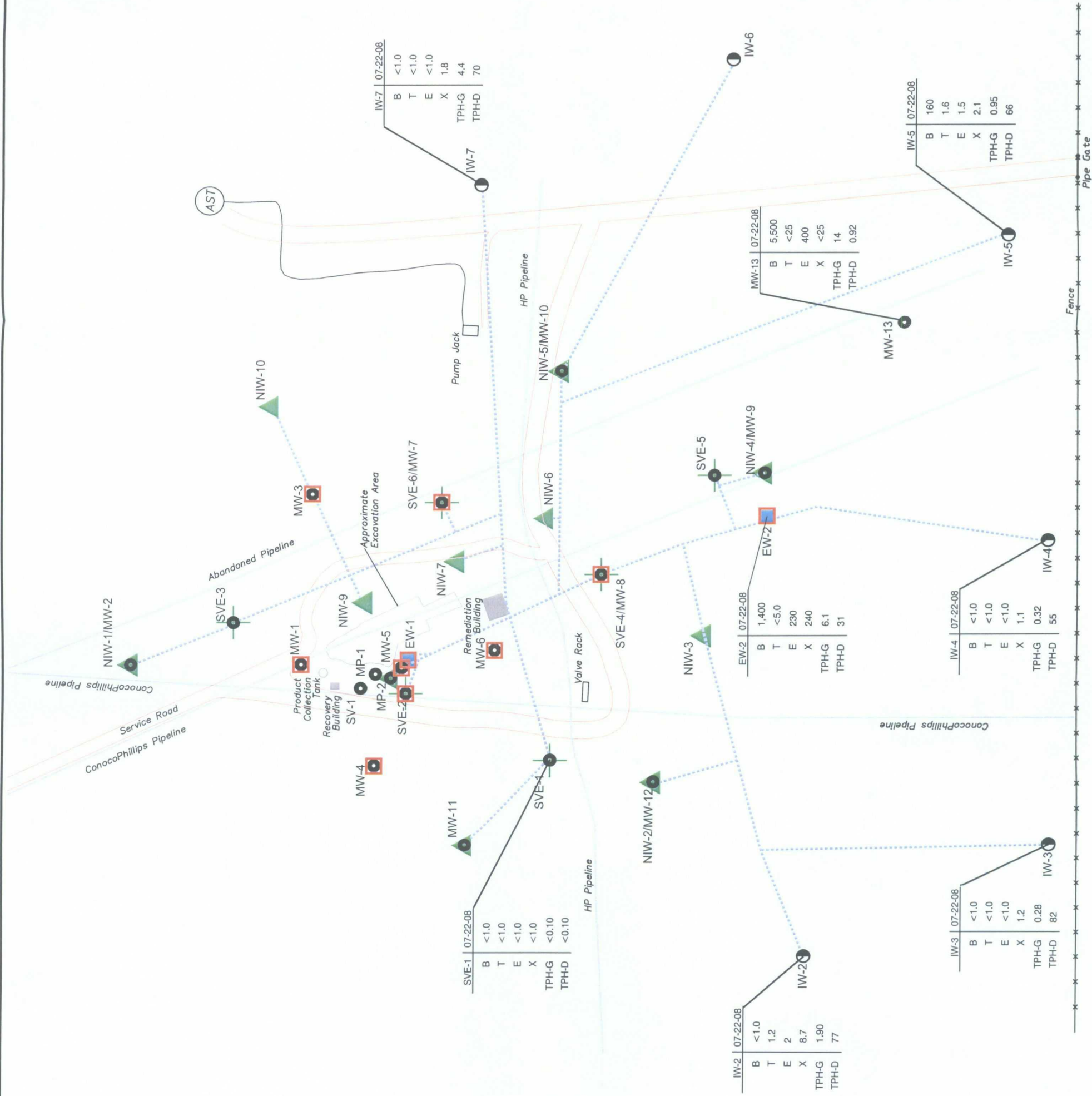
Well Number	Sample Date
B T E X (µg/L)	Benzene
	Toluene
	Ethylbenzene
	Xylenes (Total)
TPH-G TPH-D (mg/L)	Total Volatile
	Total Extractable

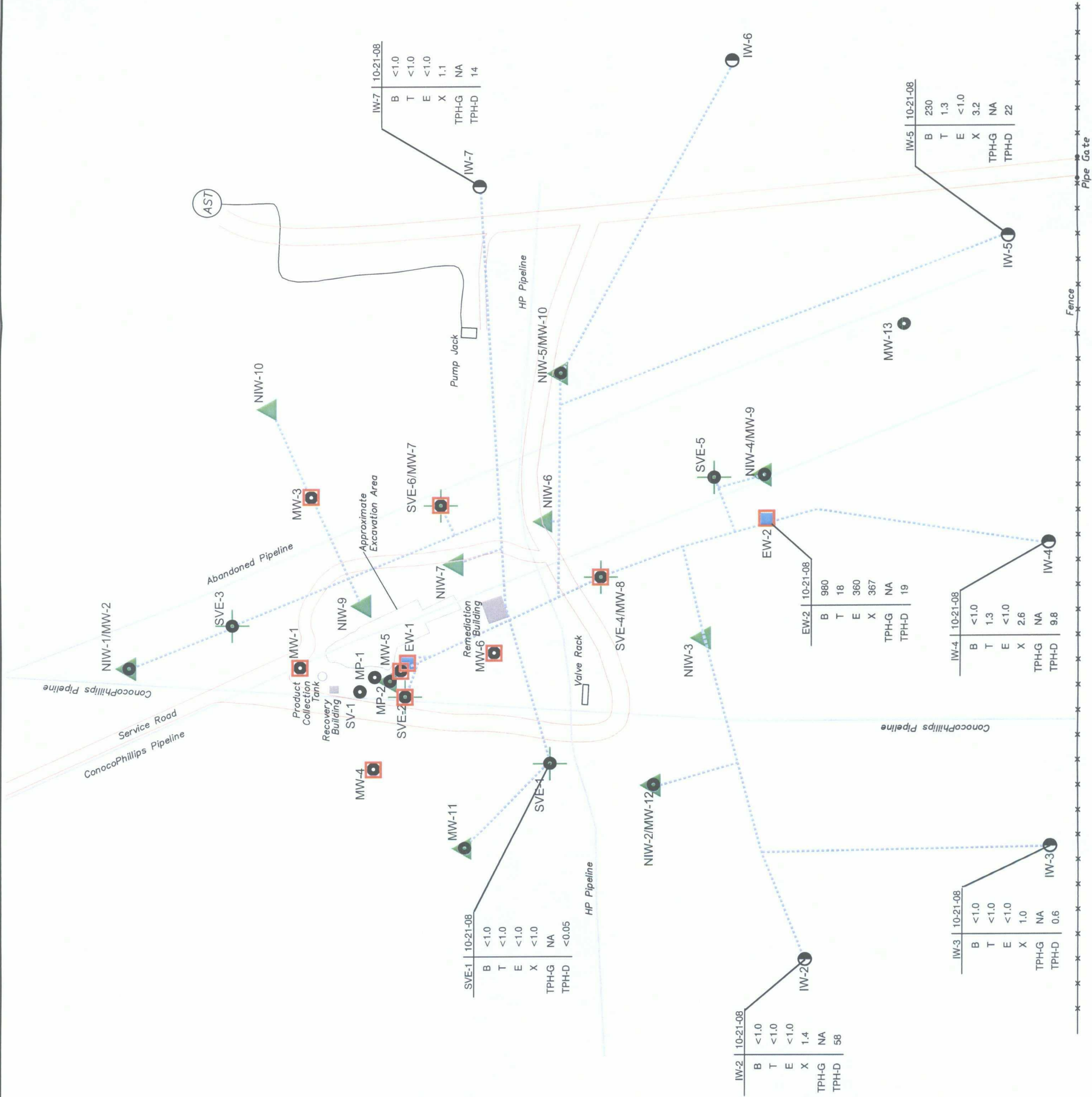
µg/L = micrograms per liter
mg/L = milligrams per liter



FIGURE 3b : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
JULY 2008

ConocoPhillips		Tetra Tech, Inc.	
LINE NM 1-1		DATA COLLECTED : JULY 22, 2008	
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E		PROJECT NO : 9640005 MODIFIED BY : GWP DATE MODIFIED : 03/27/2009	
		ACAD File : NM1_1 GW Results Jul08.dwg	





LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation

Alignment of Conveyance Piping Corridor

ANALYTICAL DATA

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	TPH-G (mg/L)	TPH-D (mg/L)
B							
T							
E							
X							
TPH-G							
TPH-D							

µg/L = micrograms per liter
mg/L = milligrams per liter
NA = not analyzed



FIGURE 3c : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2008

ConocoPhillips	TETRA TECH, INC.
LINE NM 1-1	DATA COLLECTED : OCT 21, 2008
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 9640005 MODIFIED BY : GWP DATE MODIFIED : 03/27/2009
	ACAD File : NM1_1 GW Results Oct08.dwg

LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation

Alignment of Conveyance Piping Corridor

ANALYTICAL DATA

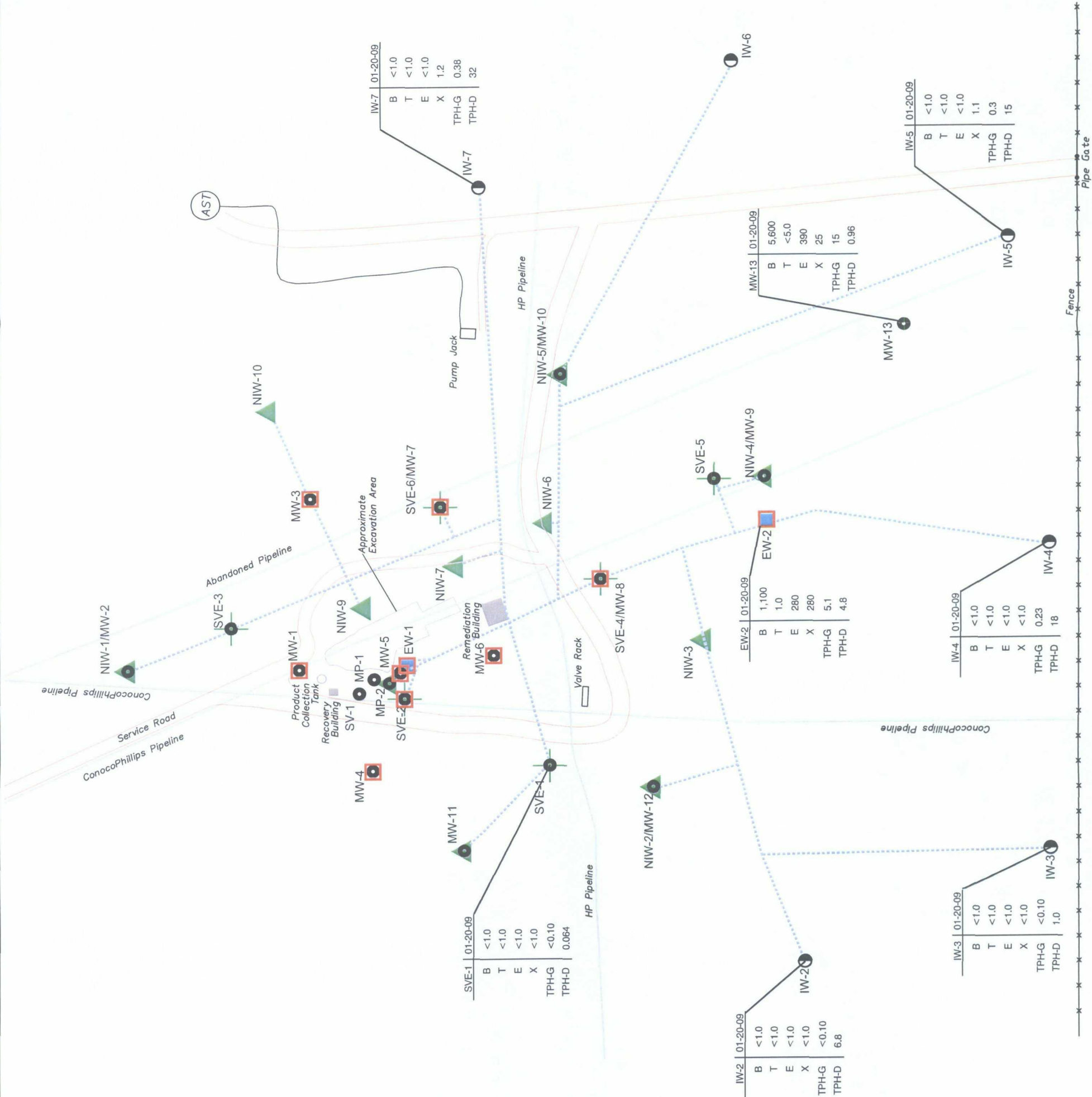
Well Number	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	Total Volatile Petroleum Hydrocarbons (TPH-GRO)	Total Extractable Petroleum Hydrocarbons (TPH-DRO)
		B	T	E	X	TPH-G	TPH-D
		(µg/L)				(mg/L)	

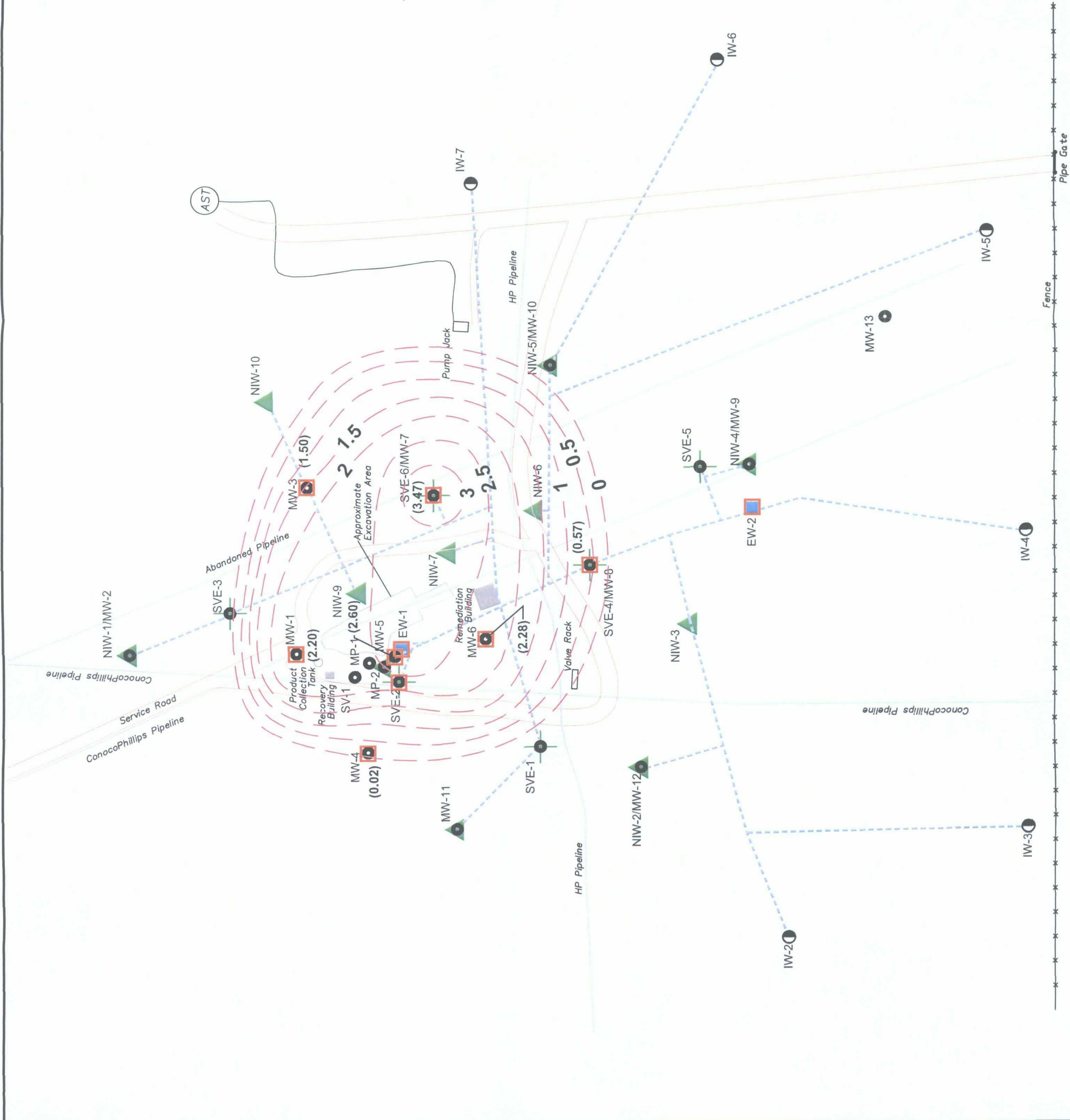
µg/L = micrograms per liter
mg/L = milligrams per liter



FIGURE 3d : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
JANUARY 2009

ConocoPhillips	Tt TETRA TECH, INC.
LINE NM 1-1	DATA COLLECTED : JAN 20, 2009
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 9640005 MODIFIED BY : GWP DATE MODIFIED : 03/27/2009 ACAD File : NM1_1 GW Results Jan09.dwg





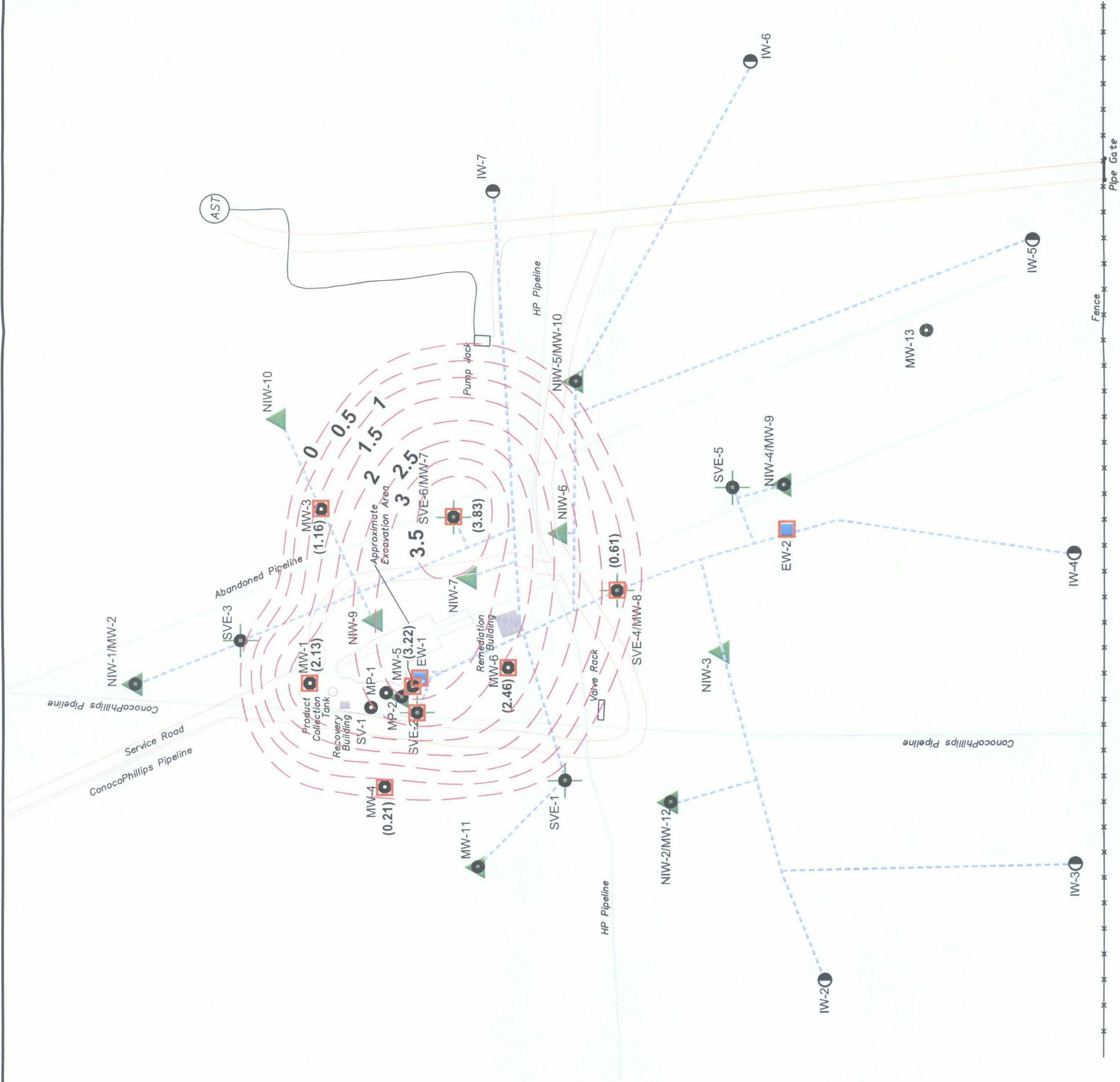
LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 1 LPH Thickness Contour (3.47)
- LPH Thickness (feet)



FIGURE 4a : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP
APRIL 2008

ConocoPhillips	Tetra Tech, Inc.
LINE NM 1-1	DATA COLLECTED : APRIL 21, 2008
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 9640005 MODIFIED BY : JJ DATE MODIFIED : 03/10/2009 ACAD File : NM1_1 LPH Apr08.dwg



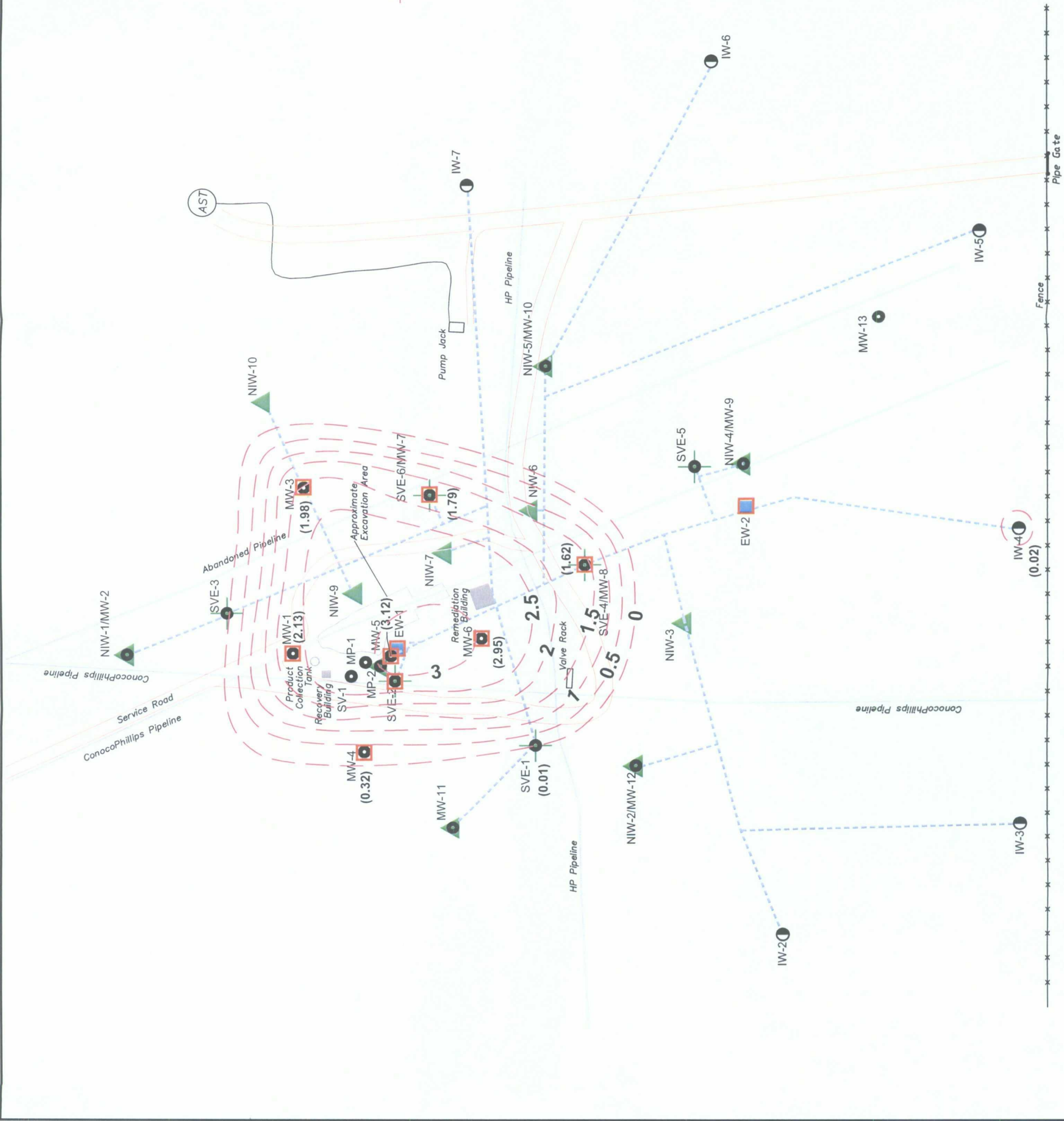
LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 1 LPH Thickness Contour
- (3.22) LPH Thickness (feet)



FIGURE 4b : LIQUID PHASE HYDROCARBON
(LPH) THICKNESS CONTOUR MAP
JULY 2008

ConocoPhillips	Tetra Tech, Inc.		
	LINE NM 1-1	DATA COLLECTED : JULY 21, 2008	PROJECT NO : 9640005 MODIFIED BY : JJ DATE MODIFIED : 03/10/2009
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E		ACAD File : NM1_1 LPH Jul08.dwg	

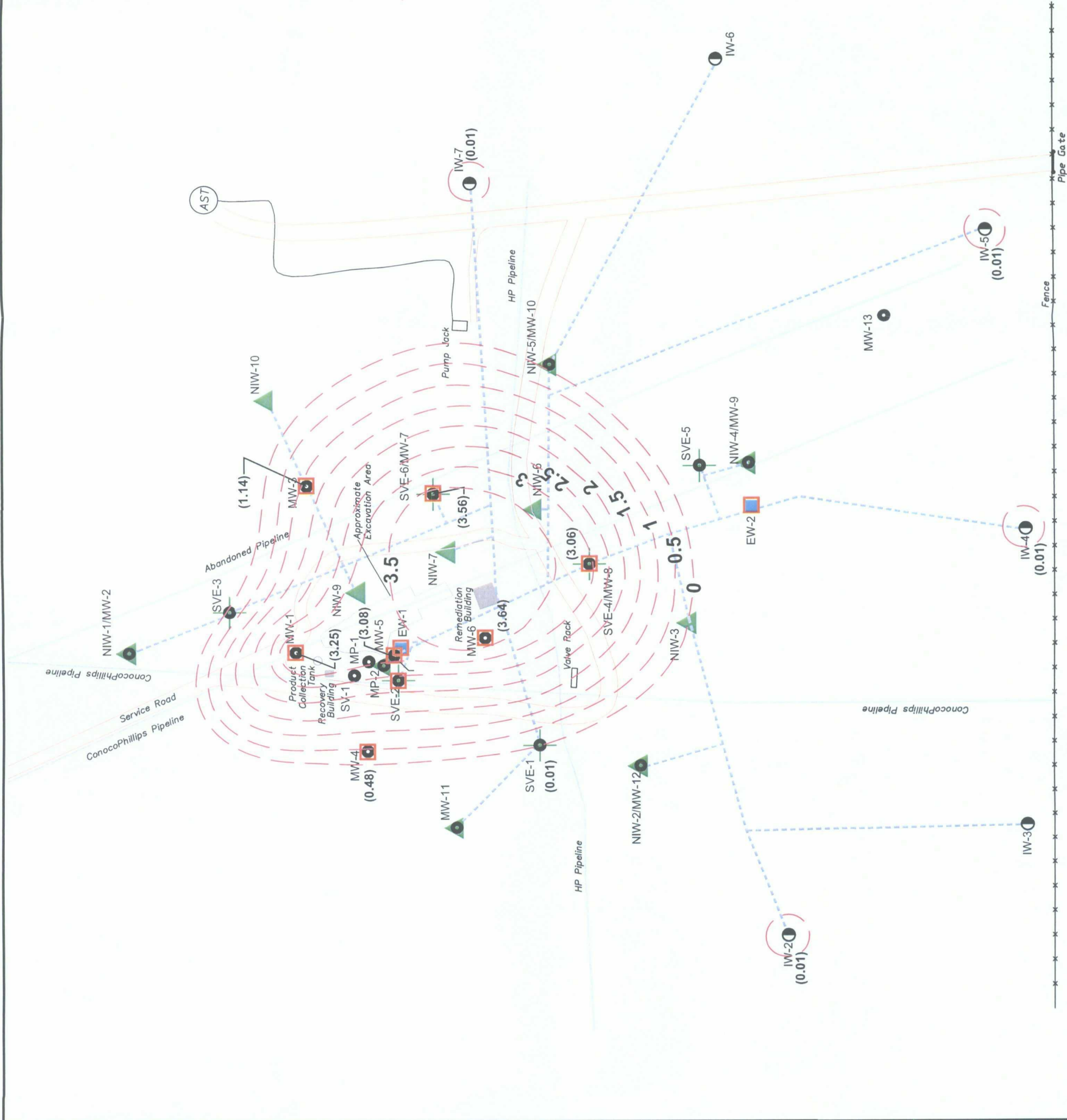


LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 1 LPH Thickness Contour
- (2.13) LPH Thickness (feet)

FIGURE 4c : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP
OCTOBER 2008

ConocoPhillips	Tetra Tech, Inc.
LINE NM 1-1	DATA COLLECTED : OCT 20, 2008
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 9640005 MODIFIED BY : JJ DATE MODIFIED : 03/10/2009
	ACAD File : NM1_1 LPH Oct08.dwg



LEGEND

- MW-1 Existing Monitor Well Location & Designation
- NIW-1 Nutrient Injection Well Location & Designation
- SVE-1 Soil Vapor Extraction Location & Designation
- EW-1 Groundwater Extraction Well Location & Designation
- MW-3 Product Recovery Well Location & Designation
- IW-7 Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 1 LPH Thickness Contour (3.56)
- LPH Thickness (feet)

FIGURE 4d : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP
JANUARY 2009

ConocoPhillips	 TETRA TECH, INC.
LINE NM 1-1	DATA COLLECTED : JAN 19, 2009
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 9640005 MODIFIED BY : JJ DATE MODIFIED : 03/10/2009 ACAD File : NM1_1 LPH Jan09.dwg

TABLES

Table 1	Water Level Measurements
Table 2a	Summary of Groundwater Analytical Data - Organics
Table 2b	Groundwater Analytical Data - Organics
Table 2c	Groundwater Analytical Data - Inorganics
Table 2d	Groundwater Data – WQCC and PAH Analyses

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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	02/27/01	3603.30	36.20	30.13	6.07	4.86	31.34	3571.96
	06/25/01	3603.30	35.23	34.92	0.31	0.25	34.98	3568.32
	09/25/01	3603.30	40.28	34.64	5.64	4.51	35.77	3567.53
	12/11/01	3603.30	40.72	34.96	5.76	4.61	36.11	3567.19
	11/05/02	3603.30	41.32	35.76	5.56	4.45	36.87	3566.43
	04/21/03	3603.30	41.52	36.33	5.19	4.15	37.37	3565.93
	06/23/03	3603.30	41.89	36.29	5.60	4.48	37.41	3565.89
	11/05/03	3603.30	41.83	36.50	5.33	4.26	37.57	3565.73
	01/19/04	3603.30	42.39	37.06	5.33	4.26	38.13	3565.17
	04/19/04	3603.30	42.07	37.29	4.78	3.82	38.25	3565.05
	07/20/04	3603.30	40.91	37.03	3.88	3.10	37.81	3565.49
	10/25/04	3603.30	35.26	34.78	0.48	0.38	34.88	3568.42
	01/24/05	3603.30	33.36	32.92	0.44	0.35	33.01	3570.29
	04/18/05	3603.30	35.54	33.32	2.22	1.78	33.76	3569.54
	07/18/05	3603.30	36.48	34.08	2.40	1.92	34.56	3568.74
	08/19/05	3603.30	37.13	34.43	2.70	2.16	34.97	3568.33
	10/17/05	3603.30	35.90	34.10	1.80	1.44	34.46	3568.84
	11/16/05	3603.30	35.78	34.19	1.59	1.27	34.51	3568.79
	11/29/05	3603.30	35.95	34.28	1.67	1.34	34.61	3568.69
	12/12/05	3603.30	36.31	34.35	1.96	1.57	34.74	3568.56
	12/21/05	3603.30	36.82	34.31	2.51	2.01	34.81	3568.49
	12/28/05	3603.30	36.75	34.44	2.31	1.85	34.90	3568.40
	01/04/06	3603.30	36.91	34.52	2.39	1.91	35.00	3568.30
	01/11/06	3603.30	36.91	34.49	2.42	1.94	34.97	3568.33
	01/16/06	3603.30	34.99	34.92	0.07	0.06	34.93	3568.37
	01/23/06	3603.30	36.51	34.79	1.72	1.38	35.13	3568.17
	02/01/06	3603.30	35.21	34.98	0.23	0.18	35.03	3568.27
	02/16/06	3603.30	35.25	35.08	0.17	0.14	35.11	3568.19
	03/06/06	3603.30	35.42	35.26	0.16	0.13	35.29	3568.01
	03/29/06	3603.30	35.56	35.49	0.07	0.06	35.50	3567.80
	04/04/06	3603.30	35.61	35.52	0.09	0.07	35.54	3567.76
	04/11/06	3603.30	35.88	35.52	0.36	0.29	35.59	3567.71
	04/17/06	3603.30	35.71	35.46	0.25	0.20	35.51	3567.79
	04/24/06	3603.30	37.23	35.33	1.90	1.52	35.71	3567.59
	05/03/06	3603.30	35.96	35.75	0.21	0.17	35.79	3567.51
	05/31/06	3603.30	36.02	35.93	0.09	0.07	35.95	3567.35
	06/09/06	3603.30	36.25	35.91	0.34	0.27	35.98	3567.32
	06/12/06	3603.30	36.13	36.02	0.11	0.09	36.04	3567.26
	06/26/06	3603.30	37.02	35.92	1.10	0.88	36.14	3567.16
	07/05/06	3603.30	37.51	35.94	1.57	1.26	36.25	3567.05
	07/10/06	3603.30	37.04	36.06	0.98	0.78	36.26	3567.04
	07/17/06	3603.30	37.97	35.96	2.01	1.61	36.36	3566.94
	07/24/06	3603.30	38.26	35.88	2.38	1.90	36.36	3566.94
	08/02/06	3603.30	38.56	35.93	2.63	2.10	36.46	3566.84
	08/14/06	3603.30	38.81	36.01	2.80	2.24	36.57	3566.73
	08/28/06	3603.30	38.83	35.99	2.84	2.27	36.56	3566.74
	09/14/06	3603.30	37.95	35.64	2.31	1.85	36.10	3567.20
	09/21/06	3603.30	37.62	35.55	2.07	1.66	35.96	3567.34
	09/25/06	3603.30	37.40	35.52	1.88	1.50	35.90	3567.40
	10/02/06	3603.30	36.70	35.49	1.21	0.97	35.73	3567.57
	10/10/06	3603.30	36.52	35.42	1.10	0.88	35.64	3567.66
	10/16/06	3603.30	35.97	35.41	0.56	0.45	35.52	3567.78
	10/23/06	3603.30	36.41	35.17	1.24	0.99	35.42	3567.88
	10/30/06	3603.30	35.54	35.45	0.09	0.07	35.47	3567.83
	11/06/06	3603.30	35.45	35.38	0.07	0.06	35.39	3567.91
	11/21/06	3603.30	35.46	35.40	0.06	0.05	35.41	3567.89
	11/28/06	3603.30	35.50	35.42	0.08	0.06	35.44	3567.86
	12/05/06	3603.30	36.05	35.36	0.69	0.55	35.50	3567.80
	12/11/06	3603.30	35.54	35.49	0.05	0.04	35.50	3567.80
	12/18/06	3603.30	35.61	35.56	0.05	0.04	35.57	3567.73
	01/02/07	3603.30	35.83	35.72	0.11	0.09	35.74	3567.56
	01/08/07	3603.30	35.83	35.36	0.47	0.38	35.45	3567.85
	01/23/07	3603.30	37.26	35.47	1.79	1.43	35.83	3567.47
	02/05/07	3603.30	36.14	36.03	0.11	0.09	36.05	3567.25
	02/26/07	3603.30	36.68	36.17	0.51	0.41	36.27	3567.03
	03/05/07	3603.30	36.36	36.27	0.09	0.07	36.29	3567.01
	03/13/07	3603.30	36.91	36.22	0.69	0.55	36.36	3566.94
	03/19/07	3603.30	36.46	36.35	0.11	0.09	36.37	3566.93

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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 cont.	03/26/07	3603.30	36.05	36.05	0.00	0.00	36.05	3567.25
	04/02/07	3603.30	38.76	36.05	2.71	2.17	36.59	3566.71
	04/23/07	3603.30	39.09	35.93	3.16	2.53	36.56	3566.74
	05/01/07	3603.30	39.21	36.11	3.10	2.48	36.73	3566.57
	05/29/07	3603.30	39.24	36.07	3.17	2.54	36.70	3566.60
	06/04/07	3603.30	39.20	36.06	3.14	2.51	36.69	3566.61
	06/11/07	3603.30	39.20	36.04	3.16	2.53	36.67	3566.63
	06/18/07	3603.30	39.22	36.03	3.19	2.55	36.67	3566.63
	06/26/07	3603.30	39.20	35.92	3.28	2.62	36.58	3566.72
	07/09/07	3603.30	39.18	36.00	3.18	2.54	36.64	3566.66
	07/17/07	3603.30	39.20	36.00	3.20	2.56	36.64	3566.66
	07/23/07	3603.30	39.17	35.94	3.23	2.58	36.59	3566.71
	07/30/07	3603.30	39.18	35.99	3.19	2.55	36.63	3566.67
	08/07/07	3603.30	39.24	36.03	3.21	2.57	36.67	3566.63
	08/20/07	3603.30	39.32	36.11	3.21	2.57	36.75	3566.55
	08/27/07	3603.30	39.44	36.12	3.32	2.66	36.78	3566.52
	09/04/07	3603.30	39.39	36.18	3.21	2.57	36.82	3566.48
	09/10/07	3603.30	39.48	36.15	3.33	2.66	36.82	3566.48
	09/25/07	3603.30	39.11	35.99	3.12	2.50	36.61	3566.69
	10/02/07	3603.30	38.78	35.89	2.89	2.31	36.47	3566.83
	10/11/07	3603.30	38.37	35.87	2.50	2.00	36.37	3566.93
	10/22/07	3603.30	38.02	35.69	2.33	1.86	36.16	3567.14
	10/31/07	3603.30	36.73	36.10	0.63	0.50	36.23	3567.07
	11/12/07	3603.30	37.97	35.85	2.12	1.70	36.27	3567.03
	11/19/07	3603.30	37.98	35.82	2.16	1.73	36.25	3567.05
	12/05/07	3603.30	38.31	35.88	2.43	1.94	36.37	3566.93
	12/10/07	3603.30	38.40	36.00	2.40	1.92	36.48	3566.82
	12/20/07	3603.30	38.55	36.06	2.49	1.99	36.56	3566.74
	01/07/08	3603.30	39.20	36.08	3.12	2.50	36.70	3566.60
	01/28/08	3603.30	39.55	36.02	3.53	2.82	36.73	3566.57
	02/12/08	3603.30	40.12	36.38	3.74	2.99	37.13	3566.17
	02/26/08	3603.30	40.14	36.49	3.65	2.92	37.22	3566.08
	03/11/08	3603.30	39.98	36.60	3.38	2.70	37.28	3566.02
	03/17/08	3603.30	39.46	36.80	2.66	2.13	37.33	3565.97
	03/24/08	3603.30	40.22	36.67	3.55	2.84	37.38	3565.92
	03/31/08	3603.30	37.55	37.28	0.27	0.22	37.33	3565.97
	04/14/08	3603.30	38.20	37.24	0.96	0.77	37.43	3565.87
	04/21/08	3603.30	38.96	36.76	2.20	1.76	37.20	3566.10
	04/28/08	3603.30	38.66	37.25	1.41	1.13	37.53	3565.77
	05/20/08	3603.30	37.81	37.65	0.16	0.13	37.68	3565.62
	06/02/08	3603.30	40.10	37.17	2.93	2.34	37.76	3565.54
	06/09/08	3603.30	37.97	37.65	0.32	0.26	37.71	3565.59
	06/16/08	3603.30	39.62	37.40	2.22	1.78	37.84	3565.46
	06/30/08	3603.30	38.70	37.79	0.91	0.73	37.97	3565.33
	07/14/08	3603.30	38.93	37.80	1.13	0.90	38.03	3565.27
	07/21/08	3603.30	39.49	37.36	2.13	1.70	37.79	3565.51
	08/06/08	3603.30	38.68	37.95	0.73	0.58	38.10	3565.20
	08/18/08	3603.30	39.57	37.85	1.72	1.38	38.19	3565.11
	09/09/08	3603.30	38.62	38.16	0.46	0.37	38.25	3565.05
	09/15/08	3603.30	38.22	38.18	0.04	0.03	38.19	3565.11
	09/22/08	3603.30	40.16	37.85	2.31	1.85	38.31	3564.99
	09/29/08	3603.30	38.20	38.17	0.03	0.02	38.18	3565.12
	10/07/08	3603.30	40.30	37.76	2.54	2.03	38.27	3565.03
	10/14/08	3603.30	38.16	38.14	0.02	0.02	38.14	3565.16
	10/20/08	3603.30	39.63	37.50	2.13	1.70	37.93	3565.37
	10/27/08	3603.30	38.17	38.13	0.04	0.03	38.14	3565.16
	11/10/08	3603.30	40.75	37.57	3.18	2.54	38.21	3565.09
	11/24/08	3603.30	38.21	38.16	0.05	0.04	38.17	3565.13
	12/01/08	3603.30	40.62	37.61	3.01	2.41	38.21	3565.09
	12/08/08	3603.30	38.71	38.06	0.65	0.52	38.19	3565.11
	12/24/08	3603.30	38.36	38.26	0.10	0.08	38.28	3565.02
	12/29/08	3603.30	39.78	37.97	1.81	1.45	38.33	3564.97
	01/06/09	3603.30	38.32	38.30	0.02	0.02	38.30	3565.00
	01/19/09	3603.30	41.10	37.85	3.25	2.60	38.50	3564.80
	01/26/09	3603.30	40.34	38.17	2.17	1.74	38.60	3564.70
	02/10/09	3603.30	41.81	37.86	3.95	3.16	38.65	3564.65
	02/26/09	3603.30	42.15	37.85	4.30	3.44	38.71	3564.59
	03/02/09	3603.30	42.22	37.85	4.37	3.50	38.72	3564.58
	03/09/09	3603.30	38.56	38.48	0.08	0.06	38.50	3564.80
	03/16/09	3603.30	41.10	38.10	3.00	2.40	38.70	3564.60

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-2 (NIW-1)	02/27/01	3601.57	32.16		0.00	0.00	32.16	3569.41
	06/25/01	3601.57	32.60		0.00	0.00	32.60	3568.97
	09/25/01	3601.57	33.12		0.00	0.00	33.12	3568.45
	12/11/01	3601.57	33.51		0.00	0.00	33.51	3568.06
	05/20/02	3601.57	33.75		0.00	0.00	33.75	3567.82
MW-3	02/27/01	3602.77	38.93	33.88	5.05	4.04	34.89	3567.88
	06/25/01	3602.77	39.44	35.23	4.21	3.37	36.07	3566.70
	09/25/01	3602.77	40.41	35.79	4.62	3.70	36.71	3566.06
	12/11/01	3602.77	40.83	36.12	4.71	3.77	37.06	3565.71
	11/05/02	3602.77	41.26	36.82	4.44	3.55	37.71	3565.06
	04/21/03	3602.77	41.52	37.14	4.38	3.50	38.02	3564.75
	06/23/03	3602.77	37.93	36.77	1.16	0.93	37.00	3565.77
	11/05/03	3602.77	42.31	38.01	4.30	3.44	38.87	3563.90
	01/19/04	3602.77	42.68	38.36	4.32	3.46	39.22	3563.55
	04/19/04	3602.77	42.08	38.31	3.77	3.02	39.06	3563.71
	07/20/04	3602.77	41.09	38.01	3.08	2.46	38.63	3564.14
	10/25/04	3602.77	35.38		0.00	0.00	35.38	3567.39
	01/24/05	3602.77	35.22	33.51	1.71	1.37	33.85	3568.92
	04/18/05	3602.77	36.20	34.21	1.99	1.59	34.61	3568.16
	07/18/05	3602.77	37.30	35.15	2.15	1.72	35.58	3567.19
	08/19/05	3602.77	37.93	35.43	2.50	2.00	35.93	3566.84
	09/15/05	3602.77	37.05	35.30	1.75	1.40	35.65	3567.12
	09/29/05	3602.77	35.65	35.40	0.25	0.20	35.45	3567.32
	10/11/05	3602.77	35.86	35.26	0.60	0.48	35.38	3567.39
	10/17/05	3602.77	35.86	35.17	0.69	0.55	35.31	3567.46
	11/03/05	3602.77	35.68	35.16	0.52	0.42	35.26	3567.51
	11/16/05	3602.77	35.83	35.29	0.54	0.43	35.40	3567.37
	11/22/05	3602.77	35.82	35.23	0.59	0.47	35.35	3567.42
	11/29/05	3602.77	35.85	35.40	0.45	0.36	35.49	3567.28
	12/28/05	3602.77	35.87	35.72	0.15	0.12	35.75	3567.02
	01/04/06	3602.77	36.13	35.75	0.38	0.30	35.83	3566.94
	01/11/06	3602.77	36.03	35.76	0.27	0.22	35.81	3566.96
	01/16/06	3602.77	36.24	35.81	0.43	0.34	35.90	3566.87
	01/23/06	3602.77	36.37	35.81	0.56	0.45	35.92	3566.85
	02/01/06	3602.77	36.10	36.00	0.10	0.08	36.02	3566.75
	02/16/06	3602.77	36.27	36.12	0.15	0.12	36.15	3566.62
	03/06/06	3602.77	36.49	36.29	0.20	0.16	36.33	3566.44
	03/29/06	3602.77	36.70	36.48	0.22	0.18	36.52	3566.25
	04/04/06	3602.77	36.76	36.51	0.25	0.20	36.56	3566.21
	04/11/06	3602.77	36.88	36.55	0.33	0.26	36.62	3566.15
	04/17/06	3602.77	36.89	36.57	0.32	0.26	36.63	3566.14
	04/24/06	3602.77	37.06	36.54	0.52	0.42	36.64	3566.13
	05/03/06	3602.77	36.91	36.72	0.19	0.15	36.76	3566.01
	05/31/06	3602.77	37.54	36.86	0.68	0.54	37.00	3565.77
	06/09/06	3602.77	37.70	36.90	0.80	0.64	37.06	3565.71
	06/12/06	3602.77	37.21	37.06	0.15	0.12	37.09	3565.68
	06/26/06	3602.77	37.91	37.03	0.88	0.70	37.21	3565.56
	07/05/06	3602.77	38.04	37.08	0.96	0.77	37.27	3565.50
	07/10/06	3602.77	38.08	37.09	0.99	0.79	37.29	3565.48
	07/17/06	3602.77	38.14	37.14	1.00	0.80	37.34	3565.43
	07/24/06	3602.77	37.71	37.15	0.56	0.45	37.26	3565.51
	08/02/06	3602.77	37.58	37.30	0.28	0.22	37.36	3565.41
	08/14/06	3602.77	37.50	37.42	0.08	0.06	37.44	3565.33
	08/28/06	3602.77	37.68	37.29	0.39	0.31	37.37	3565.40
	09/14/06	3602.77	37.10	36.82	0.28	0.22	36.88	3565.89
	09/21/06	3602.77	36.74	36.70	0.04	0.03	36.71	3566.06
	09/25/06	3602.77	35.56	35.51	0.05	0.04	35.52	3567.25
	10/02/06	3602.77	35.51	35.51	0.00	0.00	35.51	3567.26
	10/10/06	3602.77	36.44	36.44	0.00	0.00	36.44	3566.33
	10/16/06	3602.77	36.40	36.39	0.01	0.01	36.39	3566.38
	10/23/06	3602.77	36.26	36.26	0.00	0.00	36.26	3566.51
	10/30/06	3602.77	36.31	36.31	0.00	0.00	36.31	3566.46
	11/06/06	3602.77	36.27	36.26	0.01	0.01	36.26	3566.51
	11/21/06	3602.77	36.30	36.29	0.01	0.01	36.29	3566.48
	11/28/06	3602.77	36.30	36.29	0.01	0.01	36.29	3566.48
	12/05/06	3602.77	36.35	36.34	0.01	0.01	36.34	3566.43
	12/11/06	3602.77	36.39	36.38	0.01	0.01	36.38	3566.39
	12/18/06	3602.77	36.47	36.45	0.02	0.02	36.45	3566.32

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-3 cont.	01/02/07	3602.77	36.65	36.63	0.02	0.02	36.63	3566.14
	01/08/07	3602.77	36.69	36.68	0.01	0.01	36.68	3566.09
	01/23/07	3602.77	36.73	36.70	0.03	0.02	36.71	3566.06
	02/05/07	3602.77	37.02	36.94	0.08	0.06	36.96	3565.81
	02/26/07	3602.77	37.27	37.11	0.16	0.13	37.14	3565.63
	03/05/07	3602.77	37.40	37.17	0.23	0.18	37.22	3565.55
	03/13/07	3602.77	37.51	37.24	0.27	0.22	37.29	3565.48
	03/19/07	3602.77	37.59	37.26	0.33	0.26	37.33	3565.44
	03/26/07	3602.77	37.42	37.40	0.02	0.02	37.40	3565.37
	04/02/07	3602.77	37.59	37.39	0.20	0.16	37.43	3565.34
	04/23/07	3602.77	37.79	37.31	0.48	0.38	37.41	3565.36
	05/01/07	3602.77	37.96	37.46	0.50	0.40	37.56	3565.21
	05/29/07	3602.77	38.11	37.36	0.75	0.60	37.51	3565.26
	06/04/07	3602.77	37.98	37.34	0.64	0.51	37.47	3565.30
	06/11/07	3602.77	37.73	37.37	0.36	0.29	37.44	3565.33
	06/18/07	3602.77	37.72	37.41	0.31	0.25	37.47	3565.30
	06/26/07	3602.77	37.82	37.32	0.50	0.40	37.42	3565.35
	07/09/07	3602.77	38.00	37.32	0.68	0.54	37.46	3565.31
	07/17/07	3602.77	37.69	37.37	0.32	0.26	37.43	3565.34
	07/23/07	3602.77	37.81	37.32	0.49	0.39	37.42	3565.35
	07/30/07	3602.77	37.73	37.37	0.36	0.29	37.44	3565.33
	08/07/07	3602.77	37.85	37.38	0.47	0.38	37.47	3565.30
	08/20/07	3602.77	38.01	37.46	0.55	0.44	37.57	3565.20
	08/27/07	3602.77	38.11	37.48	0.63	0.50	37.61	3565.16
	09/04/07	3602.77	37.91	37.68	0.23	0.18	37.73	3565.04
	09/10/07	3602.77	37.77	37.71	0.06	0.05	37.72	3565.05
	09/25/07	3602.77	37.55	37.29	0.26	0.21	37.34	3565.43
	10/02/07	3602.77	37.30	37.20	0.10	0.08	37.22	3565.55
	10/11/07	3602.77	37.14	37.06	0.08	0.06	37.08	3565.69
	10/22/07	3602.77	37.01	36.86	0.15	0.12	36.89	3565.88
	10/31/07	3602.77	37.02	36.94	0.08	0.06	36.96	3565.81
	11/12/07	3602.77	37.07	36.97	0.10	0.08	36.99	3565.78
	11/19/07	3602.77	37.16	37.01	0.15	0.12	37.04	3565.73
	12/05/07	3602.77	37.30	37.13	0.17	0.14	37.16	3565.61
	12/10/07	3602.77	37.40	37.20	0.20	0.16	37.24	3565.53
	12/20/07	3602.77	37.61	37.30	0.31	0.25	37.36	3565.41
	01/02/08	3602.77	37.81	37.49	0.32	0.26	37.55	3565.22
	01/07/08	3602.77	37.77	37.50	0.27	0.22	37.55	3565.22
	01/28/08	3602.77	37.95	37.49	0.46	0.37	37.58	3565.19
	02/12/08	3602.77	38.22	37.76	0.46	0.37	37.85	3564.92
	02/26/08	3602.77	38.42	37.89	0.53	0.42	38.00	3564.77
	03/11/08	3602.77	38.76	37.94	0.82	0.66	38.10	3564.67
	03/17/08	3602.77	38.86	37.95	0.91	0.73	38.13	3564.64
	03/24/08	3602.77	39.07	38.00	1.07	0.86	38.21	3564.56
	03/31/08	3602.77	39.19	38.00	1.19	0.95	38.24	3564.53
	04/14/08	3602.77	39.48	38.07	1.41	1.13	38.35	3564.42
	04/21/08	3602.77	39.35	37.85	1.50	1.20	38.15	3564.62
	04/28/08	3602.77	39.76	38.12	1.64	1.31	38.45	3564.32
	05/20/08	3602.77	38.55	38.55	0.00	0.00	38.55	3564.22
	06/02/08	3602.77	39.55	38.43	1.12	0.90	38.65	3564.12
	06/09/08	3602.77	38.72	38.72	0.00	0.00	38.72	3564.05
	06/16/08	3602.77	39.55	38.56	0.99	0.79	38.76	3564.01
	06/30/08	3602.77	39.89	38.64	1.25	1.00	38.89	3563.88
	07/14/08	3602.77	39.46	38.80	0.66	0.53	38.93	3563.84
	07/21/08	3602.77	39.65	38.49	1.16	0.93	38.72	3564.05
	08/06/08	3602.77	39.04	38.99	0.05	0.04	39.00	3563.77
	08/18/08	3602.77	40.41	38.80	1.61	1.29	39.12	3563.65
	09/09/08	3602.77	39.18	39.12	0.06	0.05	39.13	3563.64
	09/15/08	3602.77	40.05	38.97	1.08	0.86	39.19	3563.58
	09/22/08	3602.77	39.15	39.14	0.01	0.01	39.14	3563.63
	09/29/08	3602.77	40.23	38.89	1.34	1.07	39.16	3563.61
	10/07/08	3602.77	39.71	38.97	0.74	0.59	39.12	3563.65
	10/14/08	3602.77	40.77	38.80	1.97	1.58	39.19	3563.58
	10/20/08	3602.77	40.42	38.44	1.98	1.58	38.84	3563.93
	10/27/08	3602.77	39.06	39.05	0.01	0.01	39.05	3563.72
	11/10/08	3602.77	41.20	38.56	2.64	2.11	39.09	3563.68
	11/24/08	3602.77	39.03	39.01	0.02	0.02	39.01	3563.76
	12/01/08	3602.77	40.84	38.65	2.19	1.75	39.09	3563.68
	12/08/08	3602.77	39.03	39.02	0.01	0.01	39.02	3563.75
	12/24/08	3602.77	41.38	38.74	2.64	2.11	39.27	3563.50

Table 1
Water Level Measurements
ConocoPhillips - Line NM1-1
Hobbs, New Mexico
(all measurements in feet)

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-3 cont.	12/29/08	3602.77	38.22	38.18	0.04	0.03	38.19	3564.58
	01/06/09	3602.77	40.62	38.98	1.64	1.31	39.31	3563.46
	01/19/09	3602.77	40.23	39.09	1.14	0.91	39.32	3563.45
	01/26/09	3602.77	39.42	39.36	0.06	0.05	39.37	3563.40
	02/10/09	3602.77	41.08	39.08	2.00	1.60	39.48	3563.29
	02/26/09	3602.77	39.56	39.44	0.12	0.10	39.46	3563.31
	03/02/09	3602.77	39.57	39.43	0.14	0.11	39.46	3563.31
	03/09/09	3602.77	40.53	39.29	1.24	0.99	39.54	3563.23
	03/16/09	3602.77	39.67	39.50	0.17	0.14	39.53	3563.24
MW-4	02/27/01	3601.70	36.13	32.41	3.72	2.98	33.15	3568.55
	06/25/01	3601.70	36.90	33.17	3.73	2.98	33.92	3567.78
	09/25/01	3601.70	37.38	33.63	3.75	3.00	34.38	3567.32
	12/11/01	3601.70	37.59	34.03	3.56	2.85	34.74	3566.96
	11/05/02	3601.70	38.51	34.82	3.69	2.95	35.56	3566.14
	04/21/03	3601.70	38.78	35.22	3.56	2.85	35.93	3565.77
	06/23/03	3601.70	38.73	35.34	3.39	2.71	36.02	3565.68
	11/05/03	3601.70	38.86	35.96	2.90	2.32	36.54	3565.16
	01/19/04	3601.70	38.99	36.32	2.67	2.14	36.85	3564.85
	04/19/04	3601.70	38.90	36.36	2.54	2.03	36.87	3564.83
	07/20/04	3601.70	37.59	36.14	1.45	1.16	36.43	3565.27
	10/25/04	3601.70	34.26	34.25	0.01	0.01	34.25	3567.45
	01/24/05	3601.70	32.25	32.24	0.01	0.01	32.24	3569.46
	04/18/05	3601.70	32.59	32.59	0.00	0.00	32.59	3569.11
	07/18/05	3601.70	33.64	33.28	0.36	0.29	33.35	3568.35
	08/18/05	3601.70	34.04	33.57	0.47	0.38	33.66	3568.04
	09/15/05	3601.70	33.98	33.51	0.47	0.38	33.60	3568.10
	09/29/05	3601.70	33.78	33.38	0.40	0.32	33.46	3568.24
	10/11/05	3601.70	33.67	33.25	0.42	0.34	33.33	3568.37
	10/17/05	3601.70	33.61	33.21	0.40	0.32	33.29	3568.41
	11/03/05	3601.70	33.45	33.24	0.21	0.17	33.28	3568.42
	11/16/05	3601.70	33.46	33.32	0.14	0.11	33.35	3568.35
	11/22/05	3601.70	33.43	33.31	0.12	0.10	33.33	3568.37
	11/29/05	3601.70	33.63	33.37	0.26	0.21	33.42	3568.28
	12/06/05	3601.70	33.64	33.38	0.26	0.21	33.43	3568.27
	12/12/05	3601.70	33.74	33.43	0.31	0.25	33.49	3568.21
	12/21/05	3601.70	33.88	33.50	0.38	0.30	33.58	3568.12
	12/28/05	3601.70	33.98	33.54	0.44	0.35	33.63	3568.07
	01/04/06	3601.70	34.17	33.62	0.55	0.44	33.73	3567.97
	01/10/06	3601.70	34.03	33.62	0.41	0.33	33.70	3568.00
	01/11/06	3601.70	34.03	33.61	0.42	0.34	33.69	3568.01
	01/16/06	3601.70	34.18	33.64	0.54	0.43	33.75	3567.95
	01/23/06	3601.70	33.96	33.69	0.27	0.22	33.74	3567.96
	02/01/06	3601.70	34.05	33.80	0.25	0.20	33.85	3567.85
	02/16/06	3601.70	34.14	33.91	0.23	0.18	33.96	3567.74
	03/06/06	3601.70	34.33	34.04	0.29	0.23	34.10	3567.60
	03/29/06	3601.70	34.51	34.23	0.28	0.22	34.29	3567.41
	04/04/06	3601.70	34.56	34.25	0.31	0.25	34.31	3567.39
	04/11/06	3601.70	34.64	34.31	0.33	0.26	34.38	3567.32
	04/17/06	3601.70	34.69	34.34	0.35	0.28	34.41	3567.29
	04/24/06	3601.70	34.73	34.33	0.40	0.32	34.41	3567.29
	05/03/06	3601.70	34.86	34.44	0.42	0.34	34.52	3567.18
	05/31/06	3601.70	35.18	34.63	0.55	0.44	34.74	3566.96
	06/09/06	3601.70	35.25	34.68	0.57	0.46	34.79	3566.91
	06/12/06	3601.70	35.24	34.72	0.52	0.42	34.82	3566.88
	06/26/06	3601.70	35.37	34.82	0.55	0.44	34.93	3566.77
	07/05/06	3601.70	35.41	34.88	0.53	0.42	34.99	3566.71
	07/10/06	3601.70	35.45	34.90	0.55	0.44	35.01	3566.69
	07/17/06	3601.70	35.53	34.94	0.59	0.47	35.06	3566.64
	07/24/06	3601.70	35.51	34.89	0.62	0.50	35.01	3566.69
	08/02/06	3601.70	35.58	35.02	0.56	0.45	35.13	3566.57
	08/14/06	3601.70	35.33	35.15	0.18	0.14	35.19	3566.51
	08/28/06	3601.70	35.19	35.18	0.01	0.01	35.18	3566.52
	09/14/06	3601.70	34.84	34.83	0.01	0.01	34.83	3566.87
	09/21/06	3601.70	34.72	34.71	0.01	0.01	34.71	3566.99
	09/25/06	3601.70	34.68	34.67	0.01	0.01	34.67	3567.03
	10/02/06	3601.70	34.59	34.58	0.01	0.01	34.58	3567.12
	10/10/06	3601.70	34.53	34.50	0.03	0.02	34.51	3567.19
	10/16/06	3601.70	34.48	34.44	0.04	0.03	34.45	3567.25

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-4 cont.	10/23/06	3601.70	34.43	34.30	0.13	0.10	34.33	3567.37
	10/30/06	3601.70	34.41	34.38	0.03	0.02	34.39	3567.31
	11/06/06	3601.70	34.39	34.36	0.03	0.02	34.37	3567.33
	11/21/06	3601.70	34.36	34.33	0.03	0.02	34.34	3567.36
	11/28/06	3601.70	34.37	34.33	0.04	0.03	34.34	3567.36
	12/05/06	3601.70	34.40	34.36	0.04	0.03	34.37	3567.33
	12/11/06	3601.70	34.44	34.40	0.04	0.03	34.41	3567.29
	12/18/06	3601.70	34.52	34.44	0.08	0.06	34.46	3567.24
	01/02/07	3601.70	34.65	34.55	0.10	0.08	34.57	3567.13
	01/08/07	3601.70	34.69	34.59	0.10	0.08	34.61	3567.09
	01/23/07	3601.70	34.70	34.55	0.15	0.12	34.58	3567.12
	02/05/07	3601.70	34.97	34.81	0.16	0.13	34.84	3566.86
	02/26/07	3601.70	35.32	34.95	0.37	0.30	35.02	3566.68
	03/05/07	3601.70	35.43	35.06	0.37	0.30	35.13	3566.57
	03/13/07	3601.70	35.50	35.05	0.45	0.36	35.14	3566.56
	03/19/07	3601.70	35.58	35.08	0.50	0.40	35.18	3566.52
	03/26/07	3601.70	35.57	35.14	0.43	0.34	35.23	3566.47
	04/02/07	3601.70	35.40	35.21	0.19	0.15	35.25	3566.45
	04/23/07	3601.70	35.19	35.17	0.02	0.02	35.17	3566.53
	05/01/07	3601.70	35.35	35.32	0.03	0.02	35.33	3566.37
	05/29/07	3601.70	35.46	35.33	0.13	0.10	35.36	3566.34
	06/04/07	3601.70	35.36	35.35	0.01	0.01	35.35	3566.35
	06/11/07	3601.70	35.37	35.34	0.03	0.02	35.35	3566.35
	06/18/07	3601.70	35.39	35.34	0.05	0.04	35.35	3566.35
	06/26/07	3601.70	35.31	35.23	0.08	0.06	35.25	3566.45
	07/09/07	3601.70	35.41	35.27	0.14	0.11	35.30	3566.40
	07/17/07	3601.70	35.41	35.28	0.13	0.10	35.31	3566.39
	07/23/07	3601.70	35.44	35.26	0.18	0.14	35.30	3566.40
	07/30/07	3601.70	35.45	35.27	0.18	0.14	35.31	3566.39
	08/07/07	3601.70	35.52	35.28	0.24	0.19	35.33	3566.37
	08/20/07	3601.70	35.60	35.35	0.25	0.20	35.40	3566.30
	08/27/07	3601.70	35.66	35.37	0.29	0.23	35.43	3566.27
	09/04/07	3601.70	35.70	35.41	0.29	0.23	35.47	3566.23
	09/10/07	3601.70	35.70	35.40	0.30	0.24	35.46	3566.24
	09/25/07	3601.70	35.56	35.28	0.28	0.22	35.34	3566.36
	10/02/07	3601.70	35.46	35.19	0.27	0.22	35.24	3566.46
	10/11/07	3601.70	35.46	35.10	0.36	0.29	35.17	3566.53
	10/22/07	3601.70	35.29	34.89	0.40	0.32	34.97	3566.73
	10/31/07	3601.70	35.31	34.99	0.32	0.26	35.05	3566.65
	11/12/07	3601.70	35.01		0.00	0.00	35.01	3566.69
	11/19/07	3601.70	35.04	35.02	0.02	0.02	35.02	3566.68
	12/05/07	3601.70	35.26	35.09	0.17	0.14	35.12	3566.58
	12/10/07	3601.70	35.33	35.12	0.21	0.17	35.16	3566.54
	12/20/07	3601.70	35.46	35.24	0.22	0.18	35.28	3566.42
	01/02/08	3601.70	35.56	35.38	0.18	0.14	35.42	3566.28
	01/07/08	3601.70	35.60	35.40	0.20	0.16	35.44	3566.26
	01/28/08	3601.70	35.60	35.34	0.26	0.21	35.39	3566.31
	02/12/08	3601.70	35.87	35.63	0.24	0.19	35.68	3566.02
	02/26/08	3601.70	35.96	35.71	0.25	0.20	35.76	3565.94
	03/11/08	3601.70	36.06	35.80	0.26	0.21	35.85	3565.85
	03/17/08	3601.70	36.08	35.85	0.23	0.18	35.90	3565.80
	03/24/08	3601.70	36.13	35.88	0.25	0.20	35.93	3565.77
	03/31/08	3601.70	36.17	35.42	0.75	0.60	35.57	3566.13
	04/14/08	3601.70	36.29	35.99	0.30	0.24	36.05	3565.65
	04/21/08	3601.70	36.09	35.80	0.29	0.23	35.86	3565.84
	04/28/08	3601.70	36.38	36.10	0.28	0.22	36.16	3565.54
	05/20/08	3601.70	36.44	36.21	0.23	0.18	36.26	3565.44
	06/02/08	3601.70	36.55	36.30	0.25	0.20	36.35	3565.35
	06/09/08	3601.70	36.57	36.38	0.19	0.15	36.42	3565.28
	06/16/08	3601.70	36.62	36.41	0.21	0.17	36.45	3565.25
	06/30/08	3601.70	36.67	36.56	0.11	0.09	36.58	3565.12
	07/14/08	3601.70	36.77	36.59	0.18	0.14	36.63	3565.07
	07/21/08	3601.70	36.58	36.37	0.21	0.17	36.41	3565.29
	08/06/08	3601.70	36.89	36.71	0.18	0.14	36.75	3564.95
	08/18/08	3601.70	36.93	36.78	0.15	0.12	36.81	3564.89
	09/09/08	3601.70	37.04	36.86	0.18	0.14	36.90	3564.80
	09/15/08	3601.70	37.06	36.87	0.19	0.15	36.91	3564.79
	09/22/08	3601.70	37.10	36.89	0.21	0.17	36.93	3564.77
	09/29/08	3601.70	37.10	36.90	0.20	0.16	36.94	3564.76

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-4 cont.	10/07/08	3601.70	37.10	36.87	0.23	0.18	36.92	3564.78
	10/14/08	3601.70	37.08	36.89	0.19	0.15	36.93	3564.77
	10/20/08	3601.70	36.82	36.50	0.32	0.26	36.56	3565.14
	10/27/08	3601.70	37.13	36.86	0.27	0.22	36.91	3564.79
	11/10/08	3601.70	37.02	36.80	0.22	0.18	36.84	3564.86
	11/24/08	3601.70	37.00	36.79	0.21	0.17	36.83	3564.87
	12/01/08	3601.70	37.11	36.80	0.31	0.25	36.86	3564.84
	12/08/08	3601.70	37.17	36.81	0.36	0.29	36.88	3564.82
	12/24/08	3601.70	37.29	36.90	0.39	0.31	36.98	3564.72
	12/29/08	3601.70	37.37	36.92	0.45	0.36	37.01	3564.69
	01/06/09	3601.70	37.46	36.96	0.50	0.40	37.06	3564.64
	01/19/09	3601.70	37.44	36.96	0.48	0.38	37.06	3564.64
	01/26/09	3601.70	37.85	37.03	0.82	0.66	37.19	3564.51
	02/10/09	3601.70	37.95	37.03	0.92	0.74	37.21	3564.49
	02/26/09	3601.70	38.03	37.07	0.96	0.77	37.26	3564.44
	03/02/09	3601.70	38.09	37.08	1.01	0.81	37.28	3564.42
	03/09/09	3601.70	38.25	37.09	1.16	0.93	37.32	3564.38
	03/16/09	3601.70	37.30		0.00	0.00	37.30	3564.40
MW-5	02/27/01	3601.54	37.92	32.36	5.56	4.45	33.47	3568.07
	06/25/01	3601.54	38.21	32.95	5.26	4.21	34.00	3567.54
	09/25/01	3601.54	39.66	34.44	5.22	4.18	35.48	3566.06
	12/11/01	3601.54	38.94	33.84	5.10	4.08	34.86	3566.68
	11/05/02	3601.54	39.18	34.71	4.47	3.58	35.60	3565.94
	04/21/03	3601.54	39.98	35.34	4.64	3.71	36.27	3565.27
	06/23/03	3601.54	39.55	35.43	4.12	3.30	36.25	3565.29
	11/05/03	3601.54	39.35	35.88	3.47	2.78	36.57	3564.97
	01/19/04	3601.54	40.36	37.11	3.25	2.60	37.76	3563.78
	04/19/04	3601.54	40.37	37.20	3.17	2.54	37.83	3563.71
	07/20/04	3601.54	40.40	36.90	3.50	2.80	37.60	3563.94
	10/25/04	3601.54	34.99	34.96	0.03	0.02	34.97	3566.57
	01/24/05	3601.54	33.37	33.08	0.29	0.23	33.14	3568.40
	04/18/05	3601.54	33.71	33.53	0.18	0.14	33.57	3567.97
	07/18/05	3601.54	34.71	34.16	0.55	0.44	34.27	3567.27
	09/15/05	3601.54	35.25	34.75	0.50	0.40	34.85	3566.69
	10/17/05	3601.54	34.48	34.09	0.39	0.31	34.17	3567.37
	11/16/05	3601.54	34.60	34.27	0.33	0.26	34.34	3567.20
	11/22/05	3601.54	34.59	34.22	0.37	0.30	34.29	3567.25
	12/06/05	3601.54	34.78	34.39	0.39	0.31	34.47	3567.07
	12/12/05	3601.54	34.92	34.44	0.48	0.38	34.54	3567.00
	12/21/05	3601.54	35.09	34.58	0.51	0.41	34.68	3566.86
	12/28/05	3601.54	34.92	34.88	0.04	0.03	34.89	3566.65
	01/04/06	3601.54	35.19	34.65	0.54	0.43	34.76	3566.78
	01/11/06	3601.54	34.89	34.70	0.19	0.15	34.74	3566.80
	01/16/06	3601.54	35.27	34.70	0.57	0.46	34.81	3566.73
	01/23/06	3601.54	34.84	34.78	0.06	0.05	34.79	3566.75
	02/01/06	3601.54	34.94	34.93	0.01	0.01	34.93	3566.61
	02/16/06	3601.54	35.71	34.93	0.78	0.62	35.09	3566.45
	03/06/06	3601.54	35.18	35.14	0.04	0.03	35.15	3566.39
	03/29/06	3601.54	35.37	35.33	0.04	0.03	35.34	3566.20
	04/04/06	3601.54	35.41	35.37	0.04	0.03	35.38	3566.16
	04/11/06	3601.54	35.51	35.40	0.11	0.09	35.42	3566.12
	04/17/06	3601.54	35.51	35.46	0.05	0.04	35.47	3566.07
	04/24/06	3601.54	36.23	35.33	0.90	0.72	35.51	3566.03
	05/03/06	3601.54	35.62	35.58	0.04	0.03	35.59	3565.95
	05/31/06	3601.54	35.80	35.76	0.04	0.03	35.77	3565.77
	06/09/06	3601.54	35.95	35.85	0.10	0.08	35.87	3565.67
	06/12/06	3601.54	35.96	35.89	0.07	0.06	35.90	3565.64
	06/26/06	3601.54	36.45	35.89	0.56	0.45	36.00	3565.54
	07/05/06	3601.54	36.73	35.91	0.82	0.66	36.07	3565.47
	07/10/06	3601.54	36.17	36.05	0.12	0.10	36.07	3565.47
	07/17/06	3601.54	36.15	36.07	0.08	0.06	36.09	3565.45
	07/24/06	3601.54	36.96	35.92	1.04	0.83	36.13	3565.41
	08/02/06	3601.54	36.34	36.17	0.17	0.14	36.20	3565.34
	08/14/06	3601.54	36.29	36.22	0.07	0.06	36.23	3565.31
	08/28/06	3601.54	36.41	36.22	0.19	0.15	36.26	3565.28
	09/14/06	3601.54	36.66	35.14	1.52	1.22	35.44	3566.10
	09/21/06	3601.54	35.96	35.67	0.29	0.23	35.73	3565.81
	09/25/06	3601.54	35.72	35.66	0.06	0.05	35.67	3565.87
	10/02/06	3601.54	35.86	35.56	0.30	0.24	35.62	3565.92

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-5 cont.	10/10/06	3601.54	35.62	35.56	0.06	0.05	35.57	3565.97
	10/16/06	3601.54	35.66	35.45	0.21	0.17	35.49	3566.05
	10/23/06	3601.54	35.78	35.29	0.49	0.39	35.39	3566.15
	10/30/06	3601.54	35.43	35.42	0.01	0.01	35.42	3566.12
	11/06/06	3601.54	35.85	35.36	0.49	0.39	35.46	3566.08
	11/21/06	3601.54	35.35	35.34	0.01	0.01	35.34	3566.20
	11/28/06	3601.54	35.89	35.33	0.56	0.45	35.44	3566.10
	12/05/06	3601.54	35.41	35.40	0.01	0.01	35.40	3566.14
	12/11/06	3601.54	36.02	35.40	0.62	0.50	35.52	3566.02
	12/18/06	3601.54	35.53	35.52	0.01	0.01	35.52	3566.02
	01/02/07	3601.54	36.38	35.56	0.82	0.66	35.72	3565.82
	01/08/07	3601.54	35.68	35.66	0.02	0.02	35.66	3565.88
	01/23/07	3601.54	36.56	35.51	1.05	0.84	35.72	3565.82
	02/05/07	3601.54	37.06	35.76	1.30	1.04	36.02	3565.52
	02/26/07	3601.54	36.16	36.08	0.08	0.06	36.10	3565.44
	03/05/07	3601.54	37.32	35.92	1.40	1.12	36.20	3565.34
	03/13/07	3601.54	36.62	36.10	0.52	0.42	36.20	3565.34
	03/19/07	3601.54	36.27	36.20	0.07	0.06	36.21	3565.33
	03/26/07	3601.54	36.87	36.53	0.34	0.27	36.60	3564.94
	04/02/07	3601.54	36.99	36.60	0.39	0.31	36.68	3564.86
	04/23/07	3601.54	37.58	36.12	1.46	1.17	36.41	3565.13
	05/01/07	3601.54	37.17	36.33	0.84	0.67	36.50	3565.04
	05/29/07	3601.54	36.99	36.42	0.57	0.46	36.53	3565.01
	06/04/07	3601.54	36.82	36.31	0.51	0.41	36.41	3565.13
	06/11/07	3601.54	36.81	36.30	0.51	0.41	36.40	3565.14
	06/18/07	3601.54	37.70	36.16	1.54	1.23	36.47	3565.07
	06/26/07	3601.54	36.79	36.25	0.54	0.43	36.36	3565.18
	07/09/07	3601.54	36.50	36.31	0.19	0.15	36.35	3565.19
	07/17/07	3601.54	36.82	36.29	0.53	0.42	36.40	3565.14
	07/23/07	3601.54	37.68	36.11	1.57	1.26	36.42	3565.12
	07/30/07	3601.54	36.50	36.33	0.17	0.14	36.36	3565.18
	08/07/07	3601.54	36.62	36.33	0.29	0.23	36.39	3565.15
	08/20/07	3601.54	36.62	36.42	0.20	0.16	36.46	3565.08
	08/27/07	3601.54	38.00	36.23	1.77	1.42	36.58	3564.96
	09/04/07	3601.54	36.66	36.47	0.19	0.15	36.51	3565.03
	09/10/07	3601.54	36.64	36.47	0.17	0.14	36.50	3565.04
	09/25/07	3601.54	37.71	36.11	1.60	1.28	36.43	3565.11
	10/02/07	3601.54	36.36	36.26	0.10	0.08	36.28	3565.26
	10/11/07	3601.54	37.46	35.96	1.50	1.20	36.26	3565.28
	10/22/07	3601.54	37.20	35.77	1.43	1.14	36.06	3565.48
	10/31/07	3601.54	36.12	36.04	0.08	0.06	36.06	3565.48
	11/12/07	3601.54	37.28	35.88	1.40	1.12	36.16	3565.38
	11/19/07	3601.54	36.14	36.07	0.07	0.06	36.08	3565.46
	12/05/07	3601.54	37.68	35.94	1.74	1.39	36.29	3565.25
	12/10/07	3601.54	36.31	36.21	0.10	0.08	36.23	3565.31
	12/20/07	3601.54	37.91	36.06	1.85	1.48	36.43	3565.11
	01/07/08	3601.54	36.61	36.47	0.14	0.11	36.50	3565.04
	01/28/08	3601.54	38.50	36.10	2.40	1.92	36.58	3564.96
	02/12/08	3601.54	38.92	36.40	2.52	2.02	36.90	3564.64
	02/26/08	3601.54	36.97	36.81	0.16	0.13	36.84	3564.70
	03/11/08	3601.54	39.12	36.59	2.53	2.02	37.10	3564.44
	03/17/08	3601.54	39.13	36.92	2.21	1.77	37.36	3564.18
	03/24/08	3601.54	38.99	36.67	2.32	1.86	37.13	3564.41
	03/31/08	3601.54	37.23	37.00	0.23	0.18	37.05	3564.49
	04/14/08	3601.54	39.44	36.75	2.69	2.15	37.29	3564.25
	04/21/08	3601.54	39.15	36.55	2.60	2.08	37.07	3564.47
	04/28/08	3601.54	38.65	36.98	1.67	1.34	37.31	3564.23
	05/20/08	3601.54	39.92	36.89	3.03	2.42	37.50	3564.04
	06/02/08	3601.54	39.46	37.10	2.36	1.89	37.57	3563.97
	06/09/08	3601.54	38.10	37.87	0.23	0.18	37.92	3563.62
	06/16/08	3601.54	39.77	37.20	2.57	2.06	37.71	3563.83
	06/30/08	3601.54	38.25	37.97	0.28	0.22	38.03	3563.51
	07/14/08	3601.54	40.43	37.30	3.13	2.50	37.93	3563.61
	07/21/08	3601.54	40.27	37.05	3.22	2.58	37.69	3563.85
	08/06/08	3601.54	38.92	38.03	0.89	0.71	38.21	3563.33
	08/18/08	3601.54	38.37	38.22	0.15	0.12	38.25	3563.29
	09/09/08	3601.54	40.66	37.52	3.14	2.51	38.15	3563.39
	09/15/08	3601.54	38.36	38.30	0.06	0.05	38.31	3563.23
	09/22/08	3601.54	40.67	37.56	3.11	2.49	38.18	3563.36
	09/29/08	3601.54	38.04	38.02	0.02	0.02	38.02	3563.52

Table 1
Water Level Measurements
ConocoPhillips - Line NM1-1
Hobbs, New Mexico
(all measurements in feet)

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-5 cont.	10/07/08	3601.54	40.69	37.49	3.20	2.56	38.13	3563.41
	10/14/08	3601.54	38.01	38.00	0.01	0.01	38.00	3563.54
	10/20/08	3601.54	40.30	37.18	3.12	2.50	37.80	3563.74
	10/27/08	3601.54	37.99	37.98	0.01	0.01	37.98	3563.56
	11/10/08	3601.54	40.68	37.40	3.28	2.62	38.06	3563.48
	11/24/08	3601.54	37.99	37.98	0.01	0.01	37.98	3563.56
	12/01/08	3601.54	40.63	37.43	3.20	2.56	38.07	3563.47
	12/08/08	3601.54	38.01	38.00	0.01	0.01	38.00	3563.54
	12/24/08	3601.54	40.72	37.56	3.16	2.53	38.19	3563.35
	12/29/08	3601.54	38.14	38.12	0.02	0.02	38.12	3563.42
	01/06/09	3601.54	40.75	37.38	3.37	2.70	38.05	3563.49
	01/19/09	3601.54	40.72	37.64	3.08	2.46	38.26	3563.28
	01/26/09	3601.54	38.31	38.26	0.05	0.04	38.27	3563.27
	02/10/09	3601.54	40.85	37.72	3.13	2.50	38.35	3563.19
	02/26/09	3601.54	38.29	38.26	0.03	0.02	38.27	3563.27
	03/02/09	3601.54	40.71	37.80	2.91	2.33	38.38	3563.16
MW-6	03/09/09	3601.54	38.34	38.31	0.03	0.02	38.32	3563.22
	03/16/09	3601.54	40.75	37.85	2.90	2.32	38.43	3563.11
	02/27/01	3599.83	35.80	31.31	4.49	3.59	32.21	3567.62
	06/25/01	3599.83	33.12	33.02	0.10	0.08	33.04	3566.79
	09/25/01	3599.83	37.11	32.83	4.28	3.42	33.69	3566.14
	12/11/01	3599.83	37.34	33.18	4.16	3.33	34.01	3565.82
	11/05/02	3599.83	38.22	34.00	4.22	3.38	34.84	3564.99
	04/21/03	3599.83	38.23	34.30	3.93	3.14	35.09	3564.74
	11/05/03	3599.83	39.15	35.06	4.09	3.27	35.88	3563.95
	01/19/04	3599.83	39.48	35.36	4.12	3.30	36.18	3563.65
	04/19/04	3599.83	39.15	35.40	3.75	3.00	36.15	3563.68
	07/20/04	3599.83	38.24	35.16	3.08	2.46	35.78	3564.05
	10/25/04	3599.83	34.38	33.22	1.16	0.93	33.45	3566.38
	12/08/04	3599.83	33.33	32.08	1.25	1.00	32.33	3567.50
	01/24/05	3599.83	32.53	31.39	1.14	0.91	31.62	3568.21
	02/14/05	3599.83	32.61	31.56	1.05	0.84	31.77	3568.06
	04/18/05	3599.83	32.98	31.78	1.20	0.96	32.02	3567.81
	07/18/05	3599.83	34.04	32.49	1.55	1.24	32.80	3567.03
	08/18/05	3599.83	34.47	32.79	1.68	1.34	33.13	3566.70
	09/29/05	3599.83	33.66	32.69	0.97	0.78	32.88	3566.95
	10/17/05	3599.83	33.38	32.57	0.81	0.65	32.73	3567.10
	11/03/05	3599.83	33.53	32.55	0.98	0.78	32.75	3567.08
	12/12/05	3599.83	33.62	32.78	0.84	0.67	32.95	3566.88
	12/28/05	3599.83	33.93	32.88	1.05	0.84	33.09	3566.74
	01/04/06	3599.83	34.05	32.92	1.13	0.90	33.15	3566.68
	01/10/06	3599.83	33.17	33.06	0.11	0.09	33.08	3566.75
	01/11/06	3599.83	33.51	32.99	0.52	0.42	33.09	3566.74
	01/16/06	3599.83	33.23	33.12	0.11	0.09	33.14	3566.69
	01/23/06	3599.83	33.20	33.09	0.11	0.09	33.11	3566.72
	02/01/06	3599.83	33.29	33.21	0.08	0.06	33.23	3566.60
	02/16/06	3599.83	33.43	33.32	0.11	0.09	33.34	3566.49
	03/06/06	3599.83	33.65	33.35	0.30	0.24	33.41	3566.42
	03/29/06	3599.83	33.77	33.62	0.15	0.12	33.65	3566.18
	04/04/06	3599.83	33.84	33.67	0.17	0.14	33.70	3566.13
	04/11/06	3599.83	33.99	33.70	0.29	0.23	33.76	3566.07
	04/17/06	3599.83	33.86	33.75	0.11	0.09	33.77	3566.06
	04/24/06	3599.83	34.13	33.70	0.43	0.34	33.79	3566.04
	05/03/06	3599.83	34.18	33.82	0.36	0.29	33.89	3565.94
	05/31/06	3599.83	34.47	34.01	0.46	0.37	34.10	3565.73
	06/09/06	3599.83	34.45	34.08	0.37	0.30	34.15	3565.68
	06/12/06	3599.83	34.55	34.10	0.45	0.36	34.19	3565.64
	06/26/06	3599.83	34.87	34.17	0.70	0.56	34.31	3565.52
	07/05/06	3599.83	35.01	34.21	0.80	0.64	34.37	3565.46
	07/10/06	3599.83	35.01	34.25	0.76	0.61	34.40	3565.43
	07/17/06	3599.83	35.12	34.28	0.84	0.67	34.45	3565.38
	07/24/06	3599.83	35.07	34.21	0.86	0.69	34.38	3565.45
	08/02/06	3599.83	35.01	34.37	0.64	0.51	34.50	3565.33
	08/14/06	3599.83	35.06	34.45	0.61	0.49	34.57	3565.26
	08/28/06	3599.83	35.11	34.46	0.65	0.52	34.59	3565.24
	09/14/06	3599.83	34.41	34.15	0.26	0.21	34.20	3565.63
	09/21/06	3599.83	34.32	34.05	0.27	0.22	34.10	3565.73
	09/25/06	3599.83	34.23	34.04	0.19	0.15	34.08	3565.75
	10/02/06	3599.83	34.21	33.91	0.30	0.24	33.97	3565.86

Table 1
Water Level Measurements
ConocoPhillips - Line NM1-1
Hobbs, New Mexico
(all measurements in feet)

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-6 cont.	10/10/06	3599.83	34.15	33.84	0.31	0.25	33.90	3565.93
	10/16/06	3599.83	34.00	33.81	0.19	0.15	33.85	3565.98
	10/23/06	3599.83	33.96	33.65	0.31	0.25	33.71	3566.12
	10/30/06	3599.83	33.87	33.79	0.08	0.06	33.81	3566.02
	11/06/06	3599.83	33.87	33.76	0.11	0.09	33.78	3566.05
	11/21/06	3599.83	33.82	33.74	0.08	0.06	33.76	3566.07
	11/28/06	3599.83	33.84	33.72	0.12	0.10	33.74	3566.09
	12/05/06	3599.83	33.94	33.76	0.18	0.14	33.80	3566.03
	12/11/06	3599.83	33.81	33.76	0.05	0.04	33.77	3566.06
	12/18/06	3599.83	33.94	33.86	0.08	0.06	33.88	3565.95
	01/02/07	3599.83	34.10	33.97	0.13	0.10	34.00	3565.83
	01/08/07	3599.83	34.13	34.01	0.12	0.10	34.03	3565.80
	01/23/07	3599.83	34.41	33.90	0.51	0.41	34.00	3565.83
	02/05/07	3599.83	34.47	34.23	0.24	0.19	34.28	3565.55
	02/26/07	3599.83	34.78	34.33	0.45	0.36	34.42	3565.41
	03/05/07	3599.83	35.09	34.35	0.74	0.59	34.50	3565.33
	03/13/07	3599.83	35.31	34.38	0.93	0.74	34.57	3565.26
	03/19/07	3599.83	35.35	34.42	0.93	0.74	34.61	3565.22
	03/26/07	3599.83	35.43	34.45	0.98	0.78	34.65	3565.18
	04/02/07	3599.83	35.20	34.55	0.65	0.52	34.68	3565.15
	04/23/07	3599.83	35.34	34.44	0.90	0.72	34.62	3565.21
	05/01/07	3599.83	35.54	34.60	0.94	0.75	34.79	3565.04
	05/29/07	3599.83	35.57	34.64	0.93	0.74	34.83	3565.00
	06/04/07	3599.83	34.90	34.74	0.16	0.13	34.77	3565.06
	06/11/07	3599.83	34.87	34.73	0.14	0.11	34.76	3565.07
	06/18/07	3599.83	34.78	34.78	0.00	0.00	34.78	3565.05
	06/26/07	3599.83	34.78	34.65	0.13	0.10	34.68	3565.15
	07/09/07	3599.83	34.93	34.65	0.28	0.22	34.71	3565.12
	07/17/07	3599.83	34.99	34.66	0.33	0.26	34.73	3565.10
	07/23/07	3599.83	35.04	34.63	0.41	0.33	34.71	3565.12
	07/30/07	3599.83	34.73	34.73	0.00	0.00	34.73	3565.10
	08/07/07	3599.83	34.73	34.73	0.00	0.00	34.73	3565.10
	08/20/07	3599.83	34.94	34.76	0.18	0.14	34.80	3565.03
	08/27/07	3599.83	35.06	34.78	0.28	0.22	34.84	3564.99
	09/04/07	3599.83	35.16	34.80	0.36	0.29	34.87	3564.96
	09/10/07	3599.83	35.01	34.83	0.18	0.14	34.87	3564.96
	09/25/07	3599.83	35.13	34.67	0.46	0.37	34.76	3565.07
	10/02/07	3599.83	34.67		0.00	0.00	34.67	3565.16
	10/11/07	3599.83	35.29	34.45	0.84	0.67	34.62	3565.21
	10/22/07	3599.83	35.24	34.23	1.01	0.81	34.43	3565.40
	10/31/07	3599.83	34.51	34.46	0.05	0.04	34.47	3565.36
	11/12/07	3599.83	35.41	34.28	1.13	0.90	34.51	3565.32
	11/19/07	3599.83	34.55	34.47	0.08	0.06	34.49	3565.34
	12/05/07	3599.83	35.77	34.34	1.43	1.14	34.63	3565.20
	12/10/07	3599.83	34.66	34.65	0.01	0.01	34.65	3565.18
	12/20/07	3599.83	35.84	34.50	1.34	1.07	34.77	3565.06
	01/02/08	3599.83	35.73	34.68	1.05	0.84	34.89	3564.94
	01/07/08	3599.83	35.59	34.74	0.85	0.68	34.91	3564.92
	01/28/08	3599.83	35.69	34.63	1.06	0.85	34.84	3564.99
	02/12/08	3599.83	35.35	35.04	0.31	0.25	35.10	3564.73
	02/26/08	3599.83	35.31	35.16	0.15	0.12	35.19	3564.64
	03/11/08	3599.83	36.32	35.08	1.24	0.99	35.33	3564.50
	03/17/08	3599.83	33.31	33.27	0.04	0.03	33.28	3566.55
	03/24/08	3599.83	36.26	35.18	1.08	0.86	35.40	3564.43
	03/31/08	3599.83	35.55	35.35	0.20	0.16	35.39	3564.44
	04/14/08	3599.83	37.14	35.15	1.99	1.59	35.55	3564.28
	04/21/08	3599.83	37.19	34.91	2.28	1.82	35.37	3564.46
	04/28/08	3599.83	37.51	35.20	2.31	1.85	35.66	3564.17
	05/20/08	3599.83	37.90	35.28	2.62	2.10	35.80	3564.03
	06/02/08	3599.83	38.08	35.34	2.74	2.19	35.89	3563.94
	06/09/08	3599.83	36.37	35.69	0.68	0.54	35.83	3564.00
	06/16/08	3599.83	36.15	35.79	0.36	0.29	35.86	3563.97
	06/30/08	3599.83	38.30	35.50	2.80	2.24	36.06	3563.77
	07/14/08	3599.83	36.53	35.49	1.04	0.83	35.70	3564.13
	07/21/08	3599.83	37.87	35.41	2.46	1.97	35.90	3563.93
	08/06/08	3599.83	37.15	35.92	1.23	0.98	36.17	3563.66
	08/18/08	3599.83	38.51	35.77	2.74	2.19	36.32	3563.51
	09/09/08	3599.83	36.57	36.21	0.36	0.29	36.28	3563.55
	09/15/08	3599.83	38.44	35.90	2.54	2.03	36.41	3563.42
	09/22/08	3599.83	36.68	36.24	0.44	0.35	36.33	3563.50

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-6 cont.	09/29/08	3599.83	36.66	36.26	0.40	0.32	36.34	3563.49
	10/07/08	3599.83	36.65	36.26	0.39	0.31	36.34	3563.49
	10/14/08	3599.83	36.97	36.22	0.75	0.60	36.37	3563.46
	10/20/08	3599.83	38.48	35.53	2.95	2.36	36.12	3563.71
	10/27/08	3599.83	36.98	36.20	0.78	0.62	36.36	3563.47
	11/10/08	3599.83	36.90	36.13	0.77	0.62	36.28	3563.55
	11/24/08	3599.83	36.88	36.00	0.88	0.70	36.18	3563.65
	12/01/08	3599.83	39.24	35.74	3.50	2.80	36.44	3563.39
	12/08/08	3599.83	39.33	35.74	3.59	2.87	36.46	3563.37
	12/24/08	3599.83	39.48	35.82	3.66	2.93	36.55	3563.28
	12/29/08	3599.83	39.55	35.85	3.70	2.96	36.59	3563.24
	01/06/09	3599.83	36.49	36.45	0.04	0.03	36.46	3563.37
	01/19/09	3599.83	39.56	35.92	3.64	2.91	36.65	3563.18
	01/26/09	3599.83	36.65	36.61	0.04	0.03	36.62	3563.21
	02/10/09	3599.83	39.74	36.00	3.74	2.99	36.75	3563.08
	02/26/09	3599.83	36.62	36.62	0.00	0.00	36.62	3563.21
	03/02/09	3599.83	38.97	36.20	2.77	2.22	36.75	3563.08
	03/09/09	3599.83	36.66		0.00	0.00	36.66	3563.17
	03/16/09	3599.83	39.50	36.17	3.33	2.66	36.84	3562.99
MW-7 (SVE-6)	02/27/01	3602.11	39.35	33.60	5.75	4.60	34.75	3567.36
	06/25/01	3602.11	40.34	34.69	5.65	4.52	35.82	3566.29
	09/25/01	3602.11	40.83	35.14	5.69	4.55	36.28	3565.83
	12/11/01	3602.11	41.23	35.49	5.74	4.59	36.64	3565.47
	11/05/02	3602.11	42.25	36.67	5.58	4.46	37.79	3564.32
	04/21/03	3602.11	42.41	36.98	5.43	4.34	38.07	3564.04
	06/23/03	3602.11	42.02	37.21	4.81	3.85	38.17	3563.94
	11/05/03	3602.11	41.49	38.10	3.39	2.71	38.78	3563.33
	01/19/04	3602.11	39.63	38.79	0.84	0.67	38.96	3563.15
	04/19/04	3602.11	39.78	38.69	1.09	0.87	38.91	3563.20
	07/20/04	3602.11	41.40	37.98	3.42	2.74	38.66	3563.45
	10/25/04	3602.11	36.77	35.81	0.96	0.77	36.00	3566.11
	01/24/05	3602.11	34.75	34.03	0.72	0.58	34.17	3567.94
	04/18/05	3602.11	35.86	34.50	1.36	1.09	34.77	3567.34
	07/18/05	3602.11	37.59	35.27	2.32	1.86	35.73	3566.38
	08/19/05	3602.11	38.09	35.55	2.54	2.03	36.06	3566.05
	09/15/05	3602.11	36.40	35.71	0.69	0.55	35.85	3566.26
	09/29/05	3602.11	35.92	35.64	0.28	0.22	35.70	3566.41
	10/11/05	3602.11	36.64	35.34	1.30	1.04	35.60	3566.51
	10/17/05	3602.11	35.87	35.47	0.40	0.32	35.55	3566.56
	10/20/05	3602.11	36.22	35.29	0.93	0.74	35.48	3566.63
	11/03/05	3602.11	36.62	35.25	1.37	1.10	35.52	3566.59
	11/16/05	3602.11	36.20	35.49	0.71	0.57	35.63	3566.48
	12/06/05	3602.11	36.77	35.51	1.26	1.01	35.76	3566.35
	12/21/05	3602.11	36.97	35.62	1.35	1.08	35.89	3566.22
	12/28/05	3602.11	36.28	35.87	0.41	0.33	35.95	3566.16
	01/04/06	3602.11	36.10	35.77	0.33	0.26	35.84	3566.27
	01/11/06	3602.11	36.64	35.84	0.80	0.64	36.00	3566.11
	01/16/06	3602.11	36.12	36.02	0.10	0.08	36.04	3566.07
	01/23/06	3602.11	36.70	35.91	0.79	0.63	36.07	3566.04
	02/01/06	3602.11	36.43	36.10	0.33	0.26	36.17	3565.94
	02/16/06	3602.11	36.53	36.22	0.31	0.25	36.28	3565.83
	03/06/06	3602.11	36.54	36.40	0.14	0.11	36.43	3565.68
	03/29/06	3602.11	36.84	36.55	0.29	0.23	36.61	3565.50
	04/04/06	3602.11	36.70	36.62	0.08	0.06	36.64	3565.47
	04/11/06	3602.11	36.82	36.65	0.17	0.14	36.68	3565.43
	04/17/06	3602.11	37.47	36.58	0.89	0.71	36.76	3565.35
	04/24/06	3602.11	37.86	36.52	1.34	1.07	36.79	3565.32
	05/03/06	3602.11	37.00	36.83	0.17	0.14	36.86	3565.25
	05/31/06	3602.11	37.90	36.89	1.01	0.81	37.09	3565.02
	06/09/06	3602.11	37.98	36.94	1.04	0.83	37.15	3564.96
	06/12/06	3602.11	37.43	37.14	0.29	0.23	37.20	3564.91
	06/26/06	3602.11	37.79	37.12	0.67	0.54	37.25	3564.86
	07/05/06	3602.11	38.10	37.13	0.97	0.78	37.32	3564.79
	07/10/06	3602.11	37.57	37.27	0.30	0.24	37.33	3564.78
	07/17/06	3602.11	37.91	37.31	0.60	0.48	37.43	3564.68
	07/24/06	3602.11	38.58	37.06	1.52	1.22	37.36	3564.75
	08/02/06	3602.11	38.92	37.15	1.77	1.42	37.50	3564.61
	08/14/06	3602.11	38.84	37.24	1.60	1.28	37.56	3564.55
	08/28/06	3602.11	39.27	37.18	2.09	1.67	37.60	3564.51

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
 (all measurements in feet)

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-7 (SVE-6) cont.	09/14/06	3602.11	38.76	36.71	2.05	1.64	37.12	3564.99
	09/21/06	3602.11	38.43	36.65	1.78	1.42	37.01	3565.10
	09/25/06	3602.11	37.43	36.86	0.57	0.46	36.97	3565.14
	10/02/06	3602.11	37.82	36.55	1.27	1.02	36.80	3565.31
	10/10/06	3602.11	37.56	36.54	1.02	0.82	36.74	3565.37
	10/16/06	3602.11	37.56	36.54	1.02	0.82	36.74	3565.37
	10/23/06	3602.11	37.63	36.31	1.32	1.06	36.57	3565.54
	10/30/06	3602.11	37.11	36.60	0.51	0.41	36.70	3565.41
	11/06/06	3602.11	36.91	36.62	0.29	0.23	36.68	3565.43
	11/21/06	3602.11	37.00	36.61	0.39	0.31	36.69	3565.42
	11/28/06	3602.11	37.32	36.37	0.95	0.76	36.56	3565.55
	12/05/06	3602.11	37.46	36.44	1.02	0.82	36.64	3565.47
	12/11/06	3602.11	36.96	36.72	0.24	0.19	36.77	3565.34
	12/18/06	3602.11	37.10	36.80	0.30	0.24	36.86	3565.25
	01/02/07	3602.11	37.38	36.90	0.48	0.38	37.00	3565.11
	01/08/07	3602.11	37.20	37.00	0.20	0.16	37.04	3565.07
	01/23/07	3602.11	38.29	36.62	1.67	1.34	36.95	3565.16
	02/05/07	3602.11	37.42	37.23	0.19	0.15	37.27	3564.84
	02/26/07	3602.11	39.06	36.97	2.09	1.67	37.39	3564.72
	03/05/07	3602.11	39.02	37.10	1.92	1.54	37.48	3564.63
	03/13/07	3602.11	39.61	37.02	2.59	2.07	37.54	3564.57
	03/19/07	3602.11	37.68	37.64	0.04	0.03	37.65	3564.46
	03/26/07	3602.11	39.72	37.12	2.60	2.08	37.64	3564.47
	04/02/07	3602.11	39.94	37.14	2.80	2.24	37.70	3564.41
	04/23/07	3602.11	40.09	37.05	3.04	2.43	37.66	3564.45
	05/01/07	3602.11	40.37	37.17	3.20	2.56	37.81	3564.30
	05/29/07	3602.11	40.55	37.14	3.41	2.73	37.82	3564.29
	06/04/07	3602.11	40.57	37.12	3.45	2.76	37.81	3564.30
	06/11/07	3602.11	40.03	37.17	2.86	2.29	37.74	3564.37
	06/18/07	3602.11	38.18	37.61	0.57	0.46	37.72	3564.39
	06/26/07	3602.11	39.37	37.20	2.17	1.74	37.63	3564.48
	07/09/07	3602.11	38.56	37.56	1.00	0.80	37.76	3564.35
	07/17/07	3602.11	39.22	37.27	1.95	1.56	37.66	3564.45
	07/23/07	3602.11	40.24	37.09	3.15	2.52	37.72	3564.39
	07/30/07	3602.11	38.00	37.50	0.50	0.40	37.60	3564.51
	08/07/07	3602.11	38.57	37.42	1.15	0.92	37.65	3564.46
	08/20/07	3602.11	39.41	37.36	2.05	1.64	37.77	3564.34
	08/27/07	3602.11	40.27	37.26	3.01	2.41	37.86	3564.25
	09/04/07	3602.11	38.06	37.74	0.32	0.26	37.80	3564.31
	09/10/07	3602.11	38.06	37.75	0.31	0.25	37.81	3564.30
	09/25/07	3602.11	39.95	37.12	2.83	2.26	37.69	3564.42
	10/02/07	3602.11	37.67	37.47	0.20	0.16	37.51	3564.60
	10/11/07	3602.11	39.46	36.98	2.48	1.98	37.48	3564.63
	10/22/07	3602.11	39.20	36.80	2.40	1.92	37.28	3564.83
	10/31/07	3602.11	37.46	37.35	0.11	0.09	37.37	3564.74
	11/12/07	3602.11	39.24	36.89	2.35	1.88	37.36	3564.75
	11/19/07	3602.11	37.53	37.49	0.04	0.03	37.50	3564.61
	12/05/07	3602.11	39.64	36.98	2.66	2.13	37.51	3564.60
	12/10/07	3602.11	37.55	37.45	0.10	0.08	37.47	3564.64
	12/20/07	3602.11	39.86	37.11	2.75	2.20	37.66	3564.45
	01/02/08	3602.11	39.81	37.31	2.50	2.00	37.81	3564.30
	01/07/08	3602.11	39.30	37.67	1.63	1.30	38.00	3564.11
	01/28/08	3602.11	40.51	37.19	3.32	2.66	37.85	3564.26
	02/12/08	3602.11	39.83	37.69	2.14	1.71	38.12	3563.99
	02/26/08	3602.11	38.95	38.08	0.87	0.70	38.25	3563.86
	03/11/08	3602.11	39.58	37.91	1.67	1.34	38.24	3563.87
	03/17/08	3602.11	39.11	38.17	0.94	0.75	38.36	3563.75
	03/24/08	3602.11	39.30	38.30	1.00	0.80	38.50	3563.61
	03/31/08	3602.11	39.25	38.33	0.92	0.74	38.51	3563.60
	04/14/08	3602.11	39.23	38.49	0.74	0.59	38.64	3563.47
	04/21/08	3602.11	41.13	37.66	3.47	2.78	38.35	3563.76
	04/28/08	3602.11	39.24	38.64	0.60	0.48	38.76	3563.35
	05/20/08	3602.11	41.98	38.02	3.96	3.17	38.81	3563.30
	06/02/08	3602.11	42.19	38.14	4.05	3.24	38.95	3563.16
	06/09/08	3602.11	42.18	38.19	3.99	3.19	38.99	3563.12
	06/16/08	3602.11	42.16	38.15	4.01	3.21	38.95	3563.16
	06/30/08	3602.11	42.20	38.25	3.95	3.16	39.04	3563.07
	07/14/08	3602.11	42.17	38.31	3.86	3.09	39.08	3563.03
	07/21/08	3602.11	41.92	38.09	3.83	3.06	38.86	3563.25
	08/06/08	3602.11	42.19	38.39	3.80	3.04	39.15	3562.96

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
 (all measurements in feet)

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-7 (SVE-6) cont.	08/18/08	3602.11	42.02	38.50	3.52	2.82	39.20	3562.91
	09/09/08	3602.11	41.25	38.88	2.37	1.90	39.35	3562.76
	09/15/08	3602.11	40.31	39.24	1.07	0.86	39.45	3562.66
	09/22/08	3602.11	40.28	39.25	1.03	0.82	39.46	3562.65
	09/29/08	3602.11	40.31	39.25	1.06	0.85	39.46	3562.65
	10/07/08	3602.11	40.37	39.25	1.12	0.90	39.47	3562.64
	10/14/08	3602.11	42.25	38.61	3.64	2.91	39.34	3562.77
	10/20/08	3602.11	40.00	38.21	1.79	1.43	38.57	3563.54
	11/10/08	3602.11	42.23	38.61	3.62	2.90	39.33	3562.78
	11/24/08	3602.11	42.20	38.50	3.70	2.96	39.24	3562.87
	12/01/08	3602.11	41.81	38.69	3.12	2.50	39.31	3562.80
	12/08/08	3602.11	40.77	39.18	1.59	1.27	39.50	3562.61
	12/24/08	3602.11	41.61	38.90	2.71	2.17	39.44	3562.67
	12/29/08	3602.11	40.97	39.37	1.60	1.28	39.69	3562.42
	01/06/09	3602.11	40.81	39.41	1.40	1.12	39.69	3562.42
	01/19/09	3602.11	42.26	38.70	3.56	2.85	39.41	3562.70
	01/26/09	3602.11	40.18	39.39	0.79	0.63	39.55	3562.56
	02/10/09	3602.11	41.58	39.11	2.47	1.98	39.60	3562.51
	02/26/09	3602.11	41.58	38.84	2.74	2.19	39.39	3562.72
	03/26/09	3602.11	42.20	38.95	3.25	2.60	39.60	3562.51
	03/09/09	3602.11	42.20	38.86	3.34	2.67	39.53	3562.58
	03/16/09	3602.11	42.22	38.91	3.31	2.65	39.57	3562.54
MW-8 (SVE-4)	02/27/01	3598.87	34.36	31.17	3.19	2.55	31.81	3567.06
	06/25/01	3598.87	35.59	31.93	3.66	2.93	32.66	3566.21
	09/25/01	3598.87	36.18	32.33	3.85	3.08	33.10	3565.77
	12/11/01	3598.87	36.71	32.63	4.08	3.26	33.45	3565.42
	11/05/02	3598.87	38.34	33.86	4.48	3.58	34.76	3564.11
	04/21/03	3598.87	38.64	34.22	4.42	3.54	35.10	3563.77
	06/23/03	3598.87	37.21	34.31	2.90	2.32	34.89	3563.98
	11/05/03	3598.87	39.85	34.43	5.42	4.34	35.51	3563.36
	01/19/04	3598.87	40.16	35.13	5.03	4.02	36.14	3562.73
	04/19/04	3598.87	39.41	35.20	4.21	3.37	36.04	3562.83
	07/20/04	3598.87	38.65	34.96	3.69	2.95	35.70	3563.17
	10/25/04	3598.87	35.70	32.93	2.77	2.22	33.48	3565.39
	01/24/05	3598.87	33.20	31.29	1.91	1.53	31.67	3567.20
	04/18/05	3598.87	33.44	31.67	1.77	1.42	32.02	3566.85
	07/18/05	3598.87	33.28	32.42	0.86	0.69	32.59	3566.28
	08/19/05	3598.87	34.64	32.68	1.96	1.57	33.07	3565.80
	09/15/05	3598.87	32.88		0.00	0.00	32.88	3565.99
	09/29/05	3598.87	34.59	32.61	1.98	1.58	33.01	3565.86
	10/11/05	3598.87	32.93	32.68	0.25	0.20	32.73	3566.14
	10/17/05	3598.87	33.49	32.56	0.93	0.74	32.75	3566.12
	11/03/05	3598.87	33.71	32.50	1.21	0.97	32.74	3566.13
	11/16/05	3598.87	33.65	32.62	1.03	0.82	32.83	3566.04
	11/29/05	3598.87	33.77	32.63	1.14	0.91	32.86	3566.01
	12/12/05	3598.87	33.83	32.69	1.14	0.91	32.92	3565.95
	12/28/05	3598.87	33.92	32.80	1.12	0.90	33.02	3565.85
	01/04/06	3598.87	34.11	32.84	1.27	1.02	33.09	3565.78
	01/11/06	3598.87	33.83	32.88	0.95	0.76	33.07	3565.80
	01/16/06	3598.87	33.31	33.05	0.26	0.21	33.10	3565.77
	01/23/06	3598.87	33.44	33.04	0.40	0.32	33.12	3565.75
	02/01/06	3598.87	33.55	33.11	0.44	0.35	33.20	3565.67
	02/16/06	3598.87	33.52	33.24	0.28	0.22	33.30	3565.57
	03/06/06	3598.87	33.65	33.37	0.28	0.22	33.43	3565.44
	03/29/06	3598.87	33.75	33.56	0.19	0.15	33.60	3565.27
	04/04/06	3598.87	33.71	33.61	0.10	0.08	33.63	3565.24
	04/11/06	3598.87	33.81	33.67	0.14	0.11	33.70	3565.17
	04/17/06	3598.87	33.74	33.71	0.03	0.02	33.72	3565.15
	04/24/06	3598.87	34.11	33.64	0.47	0.38	33.73	3565.14
	05/03/06	3598.87	33.98	33.79	0.19	0.15	33.83	3565.04
	05/31/06	3598.87	34.07	34.00	0.07	0.06	34.01	3564.86
	06/09/06	3598.87	34.14	34.06	0.08	0.06	34.08	3564.79
	06/12/06	3598.87	34.13	34.10	0.03	0.02	34.11	3564.76
	06/26/06	3598.87	34.26	34.17	0.09	0.07	34.19	3564.68
	07/05/06	3598.87	34.34	34.23	0.11	0.09	34.25	3564.62
	07/10/06	3598.87	34.36	34.26	0.10	0.08	34.28	3564.59
	07/17/06	3598.87	34.41	34.30	0.11	0.09	34.32	3564.55
	07/24/06	3598.87	34.39	34.25	0.14	0.11	34.28	3564.59
	08/02/06	3598.87	34.49	34.39	0.10	0.08	34.41	3564.46

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-8 (SVE-4) cont.	08/14/06	3598.87	34.54	34.45	0.09	0.07	34.47	3564.40
	08/28/06	3598.87	34.67	34.46	0.21	0.17	34.50	3564.37
	09/14/06	3598.87	34.71	34.05	0.66	0.53	34.18	3564.69
	09/21/06	3598.87	34.61	33.95	0.66	0.53	34.08	3564.79
	09/25/06	3598.87	34.58	33.91	0.67	0.54	34.04	3564.83
	10/02/06	3598.87	34.56	33.80	0.76	0.61	33.95	3564.92
	10/10/06	3598.87	34.57	33.71	0.86	0.69	33.88	3564.99
	10/16/06	3598.87	33.98	33.76	0.22	0.18	33.80	3565.07
	10/23/06	3598.87	33.95	33.61	0.34	0.27	33.68	3565.19
	10/30/06	3598.87	33.79	33.76	0.03	0.02	33.77	3565.10
	11/06/06	3598.87	33.77	33.76	0.01	0.01	33.76	3565.11
	11/21/06	3598.87	34.13	33.65	0.48	0.38	33.75	3565.12
	11/28/06	3598.87	34.05	33.67	0.38	0.30	33.75	3565.12
	12/05/06	3598.87	34.12	33.67	0.45	0.36	33.76	3565.11
	12/11/06	3598.87	33.82	33.81	0.01	0.01	33.81	3565.06
	12/18/06	3598.87	34.38	33.74	0.64	0.51	33.87	3565.00
	01/02/07	3598.87	34.26	33.97	0.29	0.23	34.03	3564.84
	01/08/07	3598.87	34.06	34.05	0.01	0.01	34.05	3564.82
	01/23/07	3598.87	34.33	33.90	0.43	0.34	33.99	3564.88
	02/05/07	3598.87	34.72	34.12	0.60	0.48	34.24	3564.63
	02/26/07	3598.87	34.52	34.34	0.18	0.14	34.38	3564.49
	03/05/07	3598.87	34.56	34.43	0.13	0.10	34.46	3564.41
	03/13/07	3598.87	34.64	34.42	0.22	0.18	34.46	3564.41
	03/19/07	3598.87	34.70	34.52	0.18	0.14	34.56	3564.31
	03/26/07	3598.87	34.64	34.55	0.09	0.07	34.57	3564.30
	04/02/07	3598.87	35.02	34.62	0.40	0.32	34.70	3564.17
	04/23/07	3598.87	34.75	34.50	0.25	0.20	34.55	3564.32
	05/01/07	3598.87	34.87	34.65	0.22	0.18	34.69	3564.18
	05/29/07	3598.87	35.14	34.68	0.46	0.37	34.77	3564.10
	06/04/07	3598.87	35.02	34.69	0.33	0.26	34.76	3564.11
	06/11/07	3598.87	35.08	34.62	0.46	0.37	34.71	3564.16
	06/18/07	3598.87	35.15	34.73	0.42	0.34	34.81	3564.06
	06/26/07	3598.87	35.10	34.57	0.53	0.42	34.68	3564.19
	07/09/07	3598.87	35.28	34.81	0.47	0.38	34.90	3563.97
	07/17/07	3598.87	35.33	34.60	0.73	0.58	34.75	3564.12
	07/23/07	3598.87	35.41	34.56	0.85	0.68	34.73	3564.14
	07/30/07	3598.87	35.33	34.64	0.69	0.55	34.78	3564.09
	08/07/07	3598.87	35.48	34.60	0.88	0.70	34.78	3564.09
	08/20/07	3598.87	35.56	34.67	0.89	0.71	34.85	3564.02
	08/27/07	3598.87	35.67	34.68	0.99	0.79	34.88	3563.99
	09/04/07	3598.87	35.73	34.84	0.89	0.71	35.02	3563.85
	09/10/07	3598.87	35.64	34.97	0.67	0.54	35.10	3563.77
	09/25/07	3598.87	35.40	34.64	0.76	0.61	34.79	3564.08
	10/02/07	3598.87	35.46	34.61	0.85	0.68	34.78	3564.09
	10/11/07	3598.87	35.33	34.48	0.85	0.68	34.65	3564.22
	10/22/07	3598.87	35.34	34.26	1.08	0.86	34.48	3564.39
	10/31/07	3598.87	35.42	34.46	0.96	0.77	34.65	3564.22
	11/12/07	3598.87	34.92	34.38	0.54	0.43	34.49	3564.38
	11/19/07	3598.87	35.15	34.49	0.66	0.53	34.62	3564.25
	12/05/07	3598.87	35.24	34.59	0.65	0.52	34.72	3564.15
	12/10/07	3598.87	35.39	34.68	0.71	0.57	34.82	3564.05
	12/20/07	3598.87	35.00	34.71	0.29	0.23	34.77	3564.10
	01/02/08	3598.87	35.21	34.76	0.45	0.36	34.85	3564.02
	01/07/08	3598.87	35.44	34.79	0.65	0.52	34.92	3563.95
	01/28/08	3598.87	35.49	34.65	0.84	0.67	34.82	3564.05
	02/12/08	3598.87	35.91	34.95	0.96	0.77	35.14	3563.73
	02/26/08	3598.87	35.61	35.13	0.48	0.38	35.23	3563.64
	03/11/08	3598.87	35.31	35.20	0.11	0.09	35.22	3563.65
	03/17/08	3598.87	35.42	35.23	0.19	0.15	35.27	3563.60
	03/24/08	3598.87	35.49	35.27	0.22	0.18	35.31	3563.56
	03/31/08	3598.87	35.63	35.30	0.33	0.26	35.37	3563.50
	04/14/08	3598.87	35.85	35.37	0.48	0.38	35.47	3563.40
	04/21/08	3598.87	35.71	35.14	0.57	0.46	35.25	3563.62
	04/28/08	3598.87	35.56	35.56	0.00	0.00	35.56	3563.31
	05/20/08	3598.87	36.25	35.60	0.65	0.52	35.73	3563.14
	06/02/08	3598.87	35.76	35.75	0.01	0.01	35.75	3563.12
	06/09/08	3598.87	36.26	35.80	0.46	0.37	35.89	3562.98
	06/16/08	3598.87	35.90	35.90	0.00	0.00	35.90	3562.97
	06/30/08	3598.87	36.93	35.73	1.20	0.96	35.97	3562.90
	07/14/08	3598.87	36.23	36.20	0.03	0.02	36.21	3562.66

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
 (all measurements in feet)

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-8 (SVE-4) cont.	07/21/08	3598.87	36.32	35.71	0.61	0.49	35.83	3563.04
	08/06/08	3598.87	36.85	36.03	0.82	0.66	36.19	3562.68
	08/18/08	3598.87	37.02	36.11	0.91	0.73	36.29	3562.58
	09/09/08	3598.87	36.88	36.26	0.62	0.50	36.38	3562.49
	09/15/08	3598.87	36.64	36.33	0.31	0.25	36.39	3562.48
	09/22/08	3598.87	36.67	36.30	0.37	0.30	36.37	3562.50
	09/29/08	3598.87	36.57	36.47	0.10	0.08	36.49	3562.38
	10/07/08	3598.87	37.45	36.02	1.43	1.14	36.31	3562.56
	10/14/08	3598.87	37.00	36.24	0.76	0.61	36.39	3562.48
	10/20/08	3598.87	37.27	35.65	1.62	1.30	35.97	3562.90
	10/27/08	3598.87	38.35	35.88	2.47	1.98	36.37	3562.50
	11/10/08	3598.87	39.30	35.75	3.55	2.84	36.46	3562.41
	11/24/08	3598.87	38.90	35.90	3.00	2.40	36.50	3562.37
	12/01/08	3598.87	39.59	35.66	3.93	3.14	36.45	3562.42
	12/08/08	3598.87	37.54	36.04	1.50	1.20	36.34	3562.53
	12/24/08	3598.87	36.65	36.38	0.27	0.22	36.43	3562.44
	12/29/08	3598.87	36.81	36.32	0.49	0.39	36.42	3562.45
	01/06/09	3598.87	36.51	36.48	0.03	0.02	36.49	3562.38
	01/19/09	3598.87	38.98	35.92	3.06	2.45	36.53	3562.34
	01/26/09	3598.87	36.81	36.60	0.21	0.17	36.64	3562.23
	02/10/09	3598.87	39.43	35.95	3.48	2.78	36.65	3562.22
	02/26/09	3598.87	36.60	36.48	0.12	0.10	36.50	3562.37
	03/02/09	3598.87	36.72	36.52	0.20	0.16	36.56	3562.31
	03/09/09	3598.87	38.79	36.13	2.66	2.13	36.66	3562.21
	03/16/09	3598.87	36.76	36.58	0.18	0.14	36.62	3562.25
MW-9 (NIW-4)	02/27/01	3601.05	34.80		0.00	0.00	34.80	3566.25
	06/25/01	3601.05	35.78	35.11	0.67	0.54	35.24	3565.81
	09/25/01	3601.05	37.54	35.19	2.35	1.88	35.66	3565.39
	06/23/03	3601.05	38.80	34.55	4.25	3.40	35.40	3565.65
MW-10 (NIW-5)	02/27/01	3602.96	36.27		0.00	0.00	36.27	3566.69
	06/25/01	3602.96	36.69		0.00	0.00	36.69	3566.27
	09/25/01	3602.96	37.13		0.00	0.00	37.13	3565.83
	12/11/01	3602.96	37.49		0.00	0.00	37.49	3565.47
	05/20/02	3602.96	37.87		0.00	0.00	37.87	3565.09
MW-11	02/27/01	3600.67	32.13		0.00	0.00	32.13	3568.54
	06/25/01	3600.67	32.56		0.00	0.00	32.56	3568.11
	09/25/01	3600.67	32.99		0.00	0.00	32.99	3567.68
	12/11/01	3600.67	33.33		0.00	0.00	33.33	3567.34
	05/20/02	3600.67	33.83		0.00	0.00	33.83	3566.84
MW-12 (NIW-2)	02/27/01	3599.35	31.82		0.00	0.00	31.82	3567.53
	06/25/01	3599.35	32.23		0.00	0.00	32.23	3567.12
	09/25/01	3599.35	32.63		0.00	0.00	32.63	3566.72
	12/11/01	3599.35	32.94		0.00	0.00	32.94	3566.41
	05/20/02	3599.35	33.46		0.00	0.00	33.46	3565.89
MW-13	02/27/01	3601.67	36.44		0.00	0.00	36.44	3565.23
	06/25/01	3601.67	36.83		0.00	0.00	36.83	3564.84
	09/25/01	3601.67	37.23		0.00	0.00	37.23	3564.44
	12/11/01	3601.67	37.57		0.00	0.00	37.57	3564.10
	05/20/02	3601.67	38.04		0.00	0.00	38.04	3563.63
	08/28/02	3601.67	38.30		0.00	0.00	38.30	3563.37
	08/29/02	3601.67	38.30		0.00	0.00	38.30	3563.37
	11/07/02	3601.67	38.49		0.00	0.00	38.49	3563.18
	11/22/02	3601.67	38.45		0.00	0.00	38.45	3563.22
	11/29/02	3601.67	38.44		0.00	0.00	38.44	3563.23
	12/17/02	3601.67	38.37		0.00	0.00	38.37	3563.30
	12/18/02	3601.67	38.40		0.00	0.00	38.40	3563.27
	01/14/03	3601.67	38.39		0.00	0.00	38.39	3563.28
	02/24/03	3601.67	38.54		0.00	0.00	38.54	3563.13
	02/25/03	3601.67	38.52		0.00	0.00	38.52	3563.15
	03/04/03	3601.67	38.55		0.00	0.00	38.55	3563.12
	03/14/03	3601.67	38.57		0.00	0.00	38.57	3563.10
	04/07/03	3601.67	38.63		0.00	0.00	38.63	3563.04
	04/11/03	3601.67	38.63		0.00	0.00	38.63	3563.04
	04/23/03	3601.67	38.65		0.00	0.00	38.65	3563.02
	07/14/03	3601.67	38.95		0.00	0.00	38.95	3562.72
	10/15/03	3601.67	39.35		0.00	0.00	39.35	3562.32

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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-13 cont.	01/19/04	3601.67	39.37		0.00	0.00	39.37	3562.30
	04/19/04	3601.67	39.75		0.00	0.00	39.75	3561.92
	07/20/04	3601.67	39.51		0.00	0.00	39.51	3562.16
	10/25/04	3601.67	37.97		0.00	0.00	37.97	3563.70
	01/24/05	3601.67	36.03		0.00	0.00	36.03	3565.64
	04/18/05	3601.67	36.17		0.00	0.00	36.17	3565.50
	07/18/05	3601.67	36.86		0.00	0.00	36.86	3564.81
	10/17/05	3601.67	36.92		0.00	0.00	36.92	3564.75
	11/03/05	3601.67	36.98		0.00	0.00	36.98	3564.69
	11/10/05	3601.67	36.98		0.00	0.00	36.98	3564.69
	11/16/05	3601.67	37.02		0.00	0.00	37.02	3564.65
	11/22/05	3601.67	37.00	36.99	0.01	0.01	36.99	3564.68
	11/29/05	3601.67	37.05		0.00	0.00	37.05	3564.62
	12/06/05	3601.67	37.05		0.00	0.00	37.05	3564.62
	12/12/05	3601.67	37.10		0.00	0.00	37.10	3564.57
	12/21/05	3601.67	37.16		0.00	0.00	37.16	3564.51
	01/04/06	3601.67	37.25		0.00	0.00	37.25	3564.42
	01/23/06	3601.67	37.31		0.00	0.00	37.31	3564.36
	04/24/06	3601.67	37.90		0.00	0.00	37.90	3563.77
	07/24/06	3601.67	38.42		0.00	0.00	38.42	3563.25
	10/23/06	3601.67	37.94		0.00	0.00	37.94	3563.73
	01/23/07	3601.67	38.23		0.00	0.00	38.23	3563.44
	04/23/07	3601.67	38.73		0.00	0.00	38.73	3562.94
	07/23/07	3601.67	38.91		0.00	0.00	38.91	3562.76
	10/22/07	3601.67	38.70		0.00	0.00	38.70	3562.97
	01/28/08	3601.67	39.03		0.00	0.00	39.03	3562.64
	04/21/08	3601.67	39.36		0.00	0.00	39.36	3562.31
	07/21/08	3601.67	39.79		0.00	0.00	39.79	3561.88
	10/20/08	3601.67	40.05		0.00	0.00	40.05	3561.62
	01/19/09	3601.67	40.18		0.00	0.00	40.18	3561.49
SV-1	02/27/01	3602.16	NM					
	06/25/01	3602.16	NM					
	09/25/01	3602.16	NM					
	12/11/01	3602.16	NM					
	10/25/04	3602.16	dry					
	01/24/05	3602.16	dry					
	04/18/05	3602.16	dry					
	07/18/05	3602.16	dry					
	10/17/05	3602.16	dry					
	01/23/06	3602.16	dry					
SVE-2 (SV-2)	02/27/01	3601.17	37.03	32.06	4.97	3.98	33.05	3568.12
	06/25/01	3601.17	37.28	32.67	4.61	3.69	33.59	3567.58
	09/25/01	3601.17	37.75	33.46	4.29	3.43	34.32	3566.85
	12/11/01	3601.17	37.69	33.74	3.95	3.16	34.53	3566.64
	11/05/02	3601.17	39.06	35.58	3.48	2.78	36.28	3564.89
	04/21/03	3601.17	39.33	35.65	3.68	2.94	36.39	3564.78
	11/05/03	3601.17	NM	35.02		probe unable to penetrate very viscous L.P.H		
	04/18/05	3601.17	34.29	33.45	0.84	0.67	33.62	3567.55
	07/18/05	3601.17	35.27	34.17	1.10	0.88	34.39	3566.78
	10/17/05	3601.17	34.86	34.14	0.72	0.58	34.28	3566.89
	01/23/06	3601.17	35.71	34.58	1.13	0.90	34.81	3566.36
	04/24/06	3601.17	39.90	35.17	4.73	3.78	36.12	3565.05
MP-1	02/27/01	3601.87	NM					
	06/25/01	3601.87	NM					
	09/25/01	3601.87	NM					
	12/11/01	3601.87	NM					
	10/25/04	3601.87	dry					
	01/24/05	3601.87	dry					
	04/18/05	3601.87	dry					
	07/18/05	3601.87	dry					
	10/17/05	3601.87	dry					
	01/23/06	3601.87	dry					
	04/24/06	3601.87	22.93					
MP-2	02/27/01	3601.87	NM					
	06/25/01	3601.87	37.66	33.15	4.51	3.61	34.05	3567.82
	09/25/01	3601.87	NM					
	12/11/01	3601.87	NM					

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
 (all measurements in feet)

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
IW-2	06/05/02	3597.87	32.94		0.00	0.00	32.94	3564.93
	06/07/02	3597.87	32.99		0.00	0.00	32.99	3564.88
	06/08/02	3597.87	32.96		0.00	0.00	32.96	3564.91
	08/28/02	3597.87	32.27		0.00	0.00	32.27	3565.60
	08/29/02	3597.87	32.23		0.00	0.00	32.23	3565.64
	10/25/02	3597.87	32.46		0.00	0.00	32.46	3565.41
	11/06/02	3597.87	32.45		0.00	0.00	32.45	3565.42
	01/14/03	3597.87	32.41		0.00	0.00	32.41	3565.46
	02/26/03	3597.87	32.48		0.00	0.00	32.48	3565.39
	04/23/03	3597.87	32.49		0.00	0.00	32.49	3565.38
	06/23/03	3597.87	32.88		0.00	0.00	32.88	3564.99
	07/14/03	3597.87	32.95		0.00	0.00	32.95	3564.92
	10/15/03	3597.87	33.31		0.00	0.00	33.31	3564.56
	01/19/04	3597.87	33.65		0.00	0.00	33.65	3564.22
	04/19/04	3597.87	33.79		0.00	0.00	33.79	3564.08
	07/20/04	3597.87	33.57		0.00	0.00	33.57	3564.30
	10/25/04	3597.87	31.92		0.00	0.00	31.92	3565.95
	01/24/05	3597.87	30.56		0.00	0.00	30.56	3567.31
	04/18/05	3597.87	30.44		0.00	0.00	30.44	3567.43
	07/18/05	3597.87	30.84		0.00	0.00	30.84	3567.03
	10/17/05	3597.87	30.96		0.00	0.00	30.96	3566.91
	10/19/05	3597.87	30.87	30.85	0.02	0.02	30.85	3567.02
	11/03/05	3597.87	30.91		0.00	0.00	30.91	3566.96
	11/10/05	3597.87	30.95	30.94	0.01	0.01	30.94	3566.93
	11/16/05	3597.87	30.98		0.00	0.00	30.98	3566.89
	11/22/05	3597.87	30.96		0.00	0.00	30.96	3566.91
	12/06/05	3597.87	30.98		0.00	0.00	30.98	3566.89
	12/12/05	3597.87	31.02		0.00	0.00	31.02	3566.85
	12/21/05	3597.87	31.05		0.00	0.00	31.05	3566.82
	01/04/06	3597.87	31.14		0.00	0.00	31.14	3566.73
	01/11/06	3597.87	31.16		0.00	0.00	31.16	3566.71
	01/23/06	3597.87	31.16		0.00	0.00	31.16	3566.71
	04/24/06	3597.87	31.69		0.00	0.00	31.69	3566.18
	07/24/06	3597.87	32.14		0.00	0.00	32.14	3565.73
	10/23/06	3597.87	34.96	34.95	0.01	0.01	34.95	3562.92
	01/23/07	3597.87	32.09		0.00	0.00	32.09	3565.78
	04/23/07	3597.87	32.50		0.00	0.00	32.50	3565.37
	07/23/07	3597.87	32.75	32.75	0.00	0.00	32.75	3565.12
	10/22/07	3597.87	32.75		0.00	0.00	32.75	3565.12
	01/28/08	3597.87	32.91	32.90	0.01	0.01	32.90	3564.97
	04/21/08	3597.87	33.17		0.00	0.00	33.17	3564.70
	07/21/08	3597.87	33.60		0.00	0.00	33.60	3564.27
	10/21/08	3597.87	33.92		0.00	0.00	33.92	3563.95
	01/19/09	3597.87	34.08	34.07	0.01	0.01	34.07	3563.80
IW-3	06/05/02	3597.30	32.85		0.00	0.00	32.85	3564.45
	06/07/02	3597.30	32.89		0.00	0.00	32.89	3564.41
	06/08/02	3597.30	32.88		0.00	0.00	32.88	3564.42
	08/28/02	3597.30	33.02		0.00	0.00	33.02	3564.28
	08/29/02	3597.30	33.01		0.00	0.00	33.01	3564.29
	10/25/02	3597.30	33.20		0.00	0.00	33.20	3564.10
	11/06/02	3597.30	33.23		0.00	0.00	33.23	3564.07
	01/14/03	3597.30	33.20		0.00	0.00	33.20	3564.10
	02/26/03	3597.30	33.28		0.00	0.00	33.28	3564.02
	04/23/03	3597.30	33.28		0.00	0.00	33.28	3564.02
	06/23/03	3597.30	33.78		0.00	0.00	33.78	3563.52
	07/14/03	3597.30	33.85		0.00	0.00	33.85	3563.45
	10/15/03	3597.30	34.05		0.00	0.00	34.05	3563.25
	01/19/04	3597.30	34.34		0.00	0.00	34.34	3562.96
	04/19/04	3597.30	34.18		0.00	0.00	34.18	3563.12
	07/20/04	3597.30	33.99		0.00	0.00	33.99	3563.31
	10/25/04	3597.30	31.94		0.00	0.00	31.94	3565.36
	01/24/05	3597.30	31.41		0.00	0.00	31.41	3565.89
	04/18/05	3597.30	31.37		0.00	0.00	31.37	3565.93
	07/18/05	3597.30	31.81		0.00	0.00	31.81	3565.49
	10/17/05	3597.30	31.92		0.00	0.00	31.92	3565.38
	10/19/05	3597.30	33.91	33.90	0.01	0.01	33.90	3563.40
	11/03/05	3597.30	32.01	32.00	0.01	0.01	32.00	3565.30
	11/10/05	3597.30	32.00	31.99	0.01	0.01	31.99	3565.31

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
 (all measurements in feet)

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
IW-3 cont.	11/16/05	3597.30	33.04	33.03	0.01	0.01	33.03	3564.27
	11/22/05	3597.30	32.03		0.00	0.00	32.03	3565.27
	12/06/05	3597.30	32.06		0.00	0.00	32.06	3565.24
	12/12/05	3597.30	32.08		0.00	0.00	32.08	3565.22
	12/21/05	3597.30	32.12		0.00	0.00	32.12	3565.18
	01/04/06	3597.30	32.20		0.00	0.00	32.20	3565.10
	01/11/06	3597.30	32.22		0.00	0.00	32.22	3565.08
	01/23/06	3597.30	32.46		0.00	0.00	32.46	3564.84
	04/24/06	3597.30	32.71	32.69	0.02	0.02	32.69	3564.61
	07/24/06	3597.30	33.04	33.02	0.02	0.02	33.02	3564.28
	10/23/06	3597.30	33.89	33.88	0.01	0.01	33.88	3563.42
	01/23/07	3597.30	33.11		0.00	0.00	33.11	3564.19
	04/23/07	3597.30	33.50		0.00	0.00	33.50	3563.80
	07/23/07	3597.30	33.78		0.00	0.00	33.78	3563.52
	10/22/07	3597.30	33.80		0.00	0.00	33.80	3563.50
	01/28/08	3597.30	33.90	33.89	0.01	0.01	33.89	3563.41
	04/21/08	3597.30	34.18		0.00	0.00	34.18	3563.12
	07/21/08	3597.30	34.54		0.00	0.00	34.54	3562.76
	10/20/08	3597.30	34.82		0.00	0.00	34.82	3562.48
	01/19/09	3597.30	35.00		0.00	0.00	35.00	3562.30
IW-4	06/05/02	3596.13	32.12		0.00	0.00	32.12	3564.01
	06/07/02	3596.13	32.14		0.00	0.00	32.14	3563.99
	06/08/02	3596.13	32.17		0.00	0.00	32.17	3563.96
	08/28/02	3596.13	32.45		0.00	0.00	32.45	3563.68
	08/29/02	3596.13	32.41		0.00	0.00	32.41	3563.72
	10/25/02	3596.13	32.62		0.00	0.00	32.62	3563.51
	11/06/02	3596.13	32.68		0.00	0.00	32.68	3563.45
	01/14/03	3596.13	32.63		0.00	0.00	32.63	3563.50
	02/26/03	3596.13	32.71		0.00	0.00	32.71	3563.42
	04/23/03	3596.13	32.74		0.00	0.00	32.74	3563.39
	06/23/03	3596.13	33.03		0.00	0.00	33.03	3563.10
	07/14/03	3596.13	32.45		0.00	0.00	32.45	3563.68
	10/15/03	3596.13	33.49		0.00	0.00	33.49	3562.64
	01/19/04	3596.13	33.79		0.00	0.00	33.79	3562.34
	04/19/04	3596.13	33.85		0.00	0.00	33.85	3562.28
	07/20/04	3596.13	33.60		0.00	0.00	33.60	3562.53
	10/25/04	3596.13	32.10		0.00	0.00	32.10	3564.03
	01/24/05	3596.13	30.59		0.00	0.00	30.59	3565.54
	04/18/05	3596.13	30.60		0.00	0.00	30.60	3565.53
	07/18/05	3596.13	31.13		0.00	0.00	31.13	3565.00
	10/17/05	3596.13	31.28		0.00	0.00	31.28	3564.85
	10/19/05	3596.13	31.25	31.23	0.02	0.02	31.23	3564.90
	11/03/05	3596.13	31.22		0.00	0.00	31.22	3564.91
	11/10/05	3596.13	31.33		0.00	0.00	31.33	3564.80
	11/16/05	3596.13	31.36		0.00	0.00	31.36	3564.77
	11/22/05	3596.13	31.25	31.24	0.01	0.01	31.24	3564.89
	12/06/05	3596.13	31.39		0.00	0.00	31.39	3564.74
	12/12/05	3596.13	31.43	31.42	0.01	0.01	31.42	3564.71
	12/21/05	3596.13	31.47		0.00	0.00	31.47	3564.66
	01/04/06	3596.13	31.45		0.00	0.00	31.45	3564.68
	01/11/06	3596.13	31.58	31.57	0.01	0.01	31.57	3564.56
	01/23/06	3596.13	31.63		0.00	0.00	31.63	3564.50
	04/24/06	3596.13	32.11	32.10	0.01	0.01	32.10	3564.03
	07/24/06	3596.13	32.59	32.58	0.01	0.01	32.58	3563.55
	10/23/06	3596.13	32.27	32.25	0.02	0.02	32.25	3563.88
	01/23/07	3596.13	32.50		0.00	0.00	32.50	3563.63
	04/23/07	3596.13	32.96	32.93	0.03	0.02	32.94	3563.19
	07/23/07	3596.13	33.21	33.15	0.06	0.05	33.16	3562.97
	10/22/07	3596.13	33.07	33.05	0.02	0.02	33.05	3563.08
	01/28/08	3596.13	33.28	33.27	0.01	0.01	33.27	3562.86
	04/21/08	3596.13	33.59		0.00	0.00	33.59	3562.54
	07/21/08	3596.13	33.98		0.00	0.00	33.98	3562.15
	10/20/08	3596.13	34.28		0.00	0.00	34.28	3561.85
	01/19/09	3596.13	34.40	34.39	0.01	0.01	34.39	3561.74
IW-5	06/05/02	3599.89	36.85		0.00	0.00	36.85	3563.04
	06/07/02	3599.89	36.83		0.00	0.00	36.83	3563.06
	06/08/02	3599.89	36.83		0.00	0.00	36.83	3563.06
	08/28/02	3599.89	37.01		0.00	0.00	37.01	3562.88

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
 (all measurements in feet)

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
IW-5 cont.	08/29/02	3599.89	37.06		0.00	0.00	37.06	3562.83
	10/25/02	3599.89	37.22		0.00	0.00	37.22	3562.67
	11/06/02	3599.89	37.19		0.00	0.00	37.19	3562.70
	01/14/03	3599.89	37.15		0.00	0.00	37.15	3562.74
	02/26/03	3599.89	37.25		0.00	0.00	37.25	3562.64
	04/23/03	3599.89	37.26		0.00	0.00	37.26	3562.63
	06/23/03	3599.89	37.60		0.00	0.00	37.60	3562.29
	07/14/03	3599.89	37.61		0.00	0.00	37.61	3562.28
	10/15/03	3599.89	36.94		0.00	0.00	36.94	3562.95
	01/19/04	3599.89	38.29		0.00	0.00	38.29	3561.60
	04/19/04	3599.89	38.46		0.00	0.00	38.46	3561.43
	07/20/04	3599.89	38.24		0.00	0.00	38.24	3561.65
	10/25/04	3599.89	36.86		0.00	0.00	36.86	3563.03
	01/24/05	3599.89	34.91		0.00	0.00	34.91	3564.98
	04/18/05	3599.89	34.98		0.00	0.00	34.98	3564.91
	07/18/05	3599.89	35.66		0.00	0.00	35.66	3564.23
	10/17/05	3599.89	35.78		0.00	0.00	35.78	3564.11
	10/19/05	3599.89	34.75	34.73	0.02	0.02	34.73	3565.16
	11/03/05	3599.89	37.78		0.00	0.00	37.78	3562.11
	11/10/05	3599.89	35.79		0.00	0.00	35.79	3564.10
	11/16/05	3599.89	35.82		0.00	0.00	35.82	3564.07
	11/22/05	3599.89	35.81	35.80	0.01	0.01	35.80	3564.09
	12/06/05	3599.89	35.86		0.00	0.00	35.86	3564.03
	12/12/05	3599.89	35.91		0.00	0.00	35.91	3563.98
	12/21/05	3599.89	35.95		0.00	0.00	35.95	3563.94
	01/04/06	3599.89	36.04		0.00	0.00	36.04	3563.85
	01/11/06	3599.89	36.09		0.00	0.00	36.09	3563.80
	01/23/06	3599.89	34.13	34.10	0.03	0.02	34.11	3565.78
	04/24/06	3599.89	36.68		0.00	0.00	36.68	3563.21
	07/24/06	3599.89	37.21	37.20	0.01	0.01	37.20	3562.69
	10/23/06	3599.89	36.76	36.75	0.01	0.01	36.75	3563.14
	01/23/07	3599.89	37.02		0.00	0.00	37.02	3562.87
	04/23/07	3599.89	37.51	37.51	0.00	0.00	37.51	3562.38
	07/23/07	3599.89	37.70	37.70	0.00	0.00	37.70	3562.19
	10/22/07	3599.89	37.50	37.50	0.00	0.00	37.50	3562.39
	01/28/08	3599.89	37.81	37.80	0.01	0.01	37.80	3562.09
	04/21/08	3599.89	38.14		0.00	0.00	38.14	3561.75
	07/21/08	3599.89	38.55		0.00	0.00	38.55	3561.34
	10/20/08	3599.89	38.82		0.00	0.00	38.82	3561.07
	01/19/09	3599.89	38.93	38.92	0.01	0.01	38.92	3560.97
IW-6	06/05/02	3599.71	36.45		0.00	0.00	36.45	3563.26
	06/07/02	3599.71	36.48		0.00	0.00	36.48	3563.23
	06/08/02	3599.71	36.48		0.00	0.00	36.48	3563.23
	08/28/02	3599.71	36.54		0.00	0.00	36.54	3563.17
	08/29/02	3599.71	36.52		0.00	0.00	36.52	3563.19
	10/25/02	3599.71	36.75		0.00	0.00	36.75	3562.96
	11/06/02	3599.71	36.68		0.00	0.00	36.68	3563.03
	01/14/03	3599.71	36.56		0.00	0.00	36.56	3563.15
	02/26/03	3599.71	36.50		0.00	0.00	36.50	3563.21
	04/23/03	3599.71	36.52		0.00	0.00	36.52	3563.19
	06/23/03	3599.71	37.15		0.00	0.00	37.15	3562.56
	07/14/03	3599.71	37.21		0.00	0.00	37.21	3562.50
	10/15/03	3599.71	36.74		0.00	0.00	36.74	3562.97
	01/19/04	3599.71	37.90		0.00	0.00	37.90	3561.81
	04/19/04	3599.71	37.93		0.00	0.00	37.93	3561.78
	07/20/04	3599.71	37.67		0.00	0.00	37.67	3562.04
	10/25/04	3599.71	35.57		0.00	0.00	35.57	3564.14
	01/24/05	3599.71	33.54		0.00	0.00	33.54	3566.17
	04/18/05	3599.71	33.93		0.00	0.00	33.93	3565.78
	07/18/05	3599.71	34.88		0.00	0.00	34.88	3564.83
	10/17/05	3599.71	34.86		0.00	0.00	34.86	3564.85
	10/19/05	3599.71	34.86	34.85	0.01	0.01	34.85	3564.86
	11/03/05	3599.71	34.84		0.00	0.00	34.84	3564.87
	11/10/05	3599.71	34.86		0.00	0.00	34.86	3564.85
	11/16/05	3599.71	34.91		0.00	0.00	34.91	3564.80
	11/22/05	3599.71	34.89		0.00	0.00	34.89	3564.82
	12/06/05	3599.71	34.99		0.00	0.00	34.99	3564.72
	12/12/05	3599.71	35.06		0.00	0.00	35.06	3564.65
	12/21/05	3599.71	35.15		0.00	0.00	35.15	3564.56

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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
IW-6 cont.	01/04/06	3599.71	35.27		0.00	0.00	35.27	3564.44
	01/11/06	3599.71	35.31		0.00	0.00	35.31	3564.40
	01/23/06	3599.71	35.36		0.00	0.00	35.36	3564.35
	04/24/06	3599.71	36.04	36.03	0.01	0.01	36.03	3563.68
	07/24/06	3599.71	36.62		0.00	0.00	36.62	3563.09
	10/23/06	3599.71	35.86	35.85	0.01	0.01	35.85	3563.86
	01/23/07	3599.71	36.26	36.25	0.01	0.01	36.25	3563.46
	04/23/07	3599.71	36.84	36.84	0.00	0.00	36.84	3562.87
	07/23/07	3599.71	36.97	36.97	0.00	0.00	36.97	3562.74
	10/22/07	3599.71	36.52		0.00	0.00	36.52	3563.19
	01/28/08	3599.71	37.07	37.05	0.02	0.02	37.05	3562.66
	04/21/08	3599.71	dry		0.00	0.00		
	07/21/08	3599.71	dry		0.00	0.00		
	10/20/08	3599.71	dry		0.00	0.00		
	01/19/09	3599.71	dry		0.00	0.00		
IW-7	06/05/02	3600.64	35.70		0.00	0.00	35.70	3564.94
	06/07/02	3600.64	35.77		0.00	0.00	35.77	3564.87
	06/08/02	3600.64	35.81		0.00	0.00	35.81	3564.83
	08/28/02	3600.64	36.03		0.00	0.00	36.03	3564.61
	08/29/02	3600.64	36.07		0.00	0.00	36.07	3564.57
	10/25/02	3600.64	36.25		0.00	0.00	36.25	3564.39
	11/06/02	3600.64	35.94		0.00	0.00	35.94	3564.70
	01/14/03	3600.64	35.95		0.00	0.00	35.95	3564.69
	02/26/03	3600.64	35.42		0.00	0.00	35.42	3565.22
	04/23/03	3600.64	35.90		0.00	0.00	35.90	3564.74
	06/23/03	3600.64	36.66		0.00	0.00	36.66	3563.98
	07/14/03	3600.64	36.75		0.00	0.00	36.75	3563.89
	10/15/03	3600.64	36.86		0.00	0.00	36.86	3563.78
	01/19/04	3600.64	37.50		0.00	0.00	37.50	3563.14
	04/19/04	3600.64	37.36		0.00	0.00	37.36	3563.28
	07/20/04	3600.64	37.06		0.00	0.00	37.06	3563.58
	10/25/04	3600.64	34.00		0.00	0.00	34.00	3566.64
	01/24/05	3600.64	32.36		0.00	0.00	32.36	3568.28
	04/18/05	3600.64	33.07		0.00	0.00	33.07	3567.57
	07/18/05	3600.64	34.15		0.00	0.00	34.15	3566.49
	10/17/05	3600.64	33.99		0.00	0.00	33.99	3566.65
	10/19/05	3600.64	33.96	33.95	0.01	0.01	33.95	3566.69
	11/03/05	3600.64	33.95		0.00	0.00	33.95	3566.69
	11/10/05	3600.64	33.98	33.97	0.01	0.01	33.97	3566.67
	11/16/05	3600.64	34.05		0.00	0.00	34.05	3566.59
	11/22/05	3600.64	34.03		0.00	0.00	34.03	3566.61
	11/29/05	3600.64	34.15		0.00	0.00	34.15	3566.49
	12/06/05	3600.64	35.05		0.00	0.00	35.05	3565.59
	12/12/05	3600.64	34.29	34.26	0.03	0.02	34.27	3566.37
	12/21/05	3600.64	34.40	34.37	0.03	0.02	34.38	3566.26
	01/04/06	3600.64	34.56	34.52	0.04	0.03	34.53	3566.11
	01/11/06	3600.64	34.59	34.56	0.03	0.02	34.57	3566.07
	01/23/06	3600.64	34.72	34.66	0.06	0.05	34.67	3565.97
	04/24/06	3600.64	35.42	35.37	0.05	0.04	35.38	3565.26
	07/24/06	3600.64	36.00	35.97	0.03	0.02	35.98	3564.66
	10/23/06	3600.64	34.97		0.00	0.00	34.97	3565.67
	01/23/07	3600.64	35.49	35.47	0.02	0.02	35.47	3565.17
	04/23/07	3600.64	36.14	36.14	0.00	0.00	36.14	3564.50
	07/23/07	3600.64	36.18	36.18	0.00	0.00	36.18	3564.46
	10/22/07	3600.64	35.60		0.00	0.00	35.60	3565.04
	01/28/08	3600.64	36.33	36.30	0.03	0.02	36.31	3564.33
	04/21/08	3600.64	36.83		0.00	0.00	36.83	3563.81
	07/21/08	3600.64	37.35		0.00	0.00	37.35	3563.29
	10/20/08	3600.64	37.47		0.00	0.00	37.47	3563.17
	01/19/09	3600.64	37.62	37.61	0.01	0.01	37.61	3563.03
SVE-1	08/28/02	3598.68	32.63		0.00	0.00	32.63	3566.05
	08/29/02	3598.68	32.60		0.00	0.00	32.60	3566.08
	10/25/02	3598.68	32.60		0.00	0.00	32.60	3566.08
	11/06/02	3598.68	32.80		0.00	0.00	32.80	3565.88
	11/22/02	3598.68	32.75		0.00	0.00	32.75	3565.93
	11/29/02	3598.68	32.73		0.00	0.00	32.73	3565.95
	12/18/02	3598.68	32.82		0.00	0.00	32.82	3565.86
	01/14/03	3598.68	32.61		0.00	0.00	32.61	3566.07

Table 1
Water Level Measurements
ConocoPhillips - Line NM1-1
Hobbs, New Mexico
(all measurements in feet)

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
SVE-1 cont.	02/24/03	3598.68	32.78		0.00	0.00	32.78	3565.90
	02/25/03	3598.68	32.79		0.00	0.00	32.79	3565.89
	02/26/03	3598.68	32.80		0.00	0.00	32.80	3565.88
	02/27/03	3598.68	32.80		0.00	0.00	32.80	3565.88
	02/28/03	3598.68	32.80		0.00	0.00	32.80	3565.88
	03/04/03	3598.68	32.78		0.00	0.00	32.78	3565.90
	03/14/03	3598.68	32.79		0.00	0.00	32.79	3565.89
	04/07/03	3598.68	32.90		0.00	0.00	32.90	3565.78
	04/11/03	3598.68	32.89		0.00	0.00	32.89	3565.79
	04/23/03	3598.68	32.91		0.00	0.00	32.91	3565.77
	06/23/03	3598.68	33.21		0.00	0.00	33.21	3565.47
	07/14/03	3598.68	33.31		0.00	0.00	33.31	3565.37
	10/15/03	3598.68	33.56		0.00	0.00	33.56	3565.12
	01/19/04	3598.68	34.04		0.00	0.00	34.04	3564.64
	04/19/04	3598.68	34.00		0.00	0.00	34.00	3564.68
	07/20/04	3598.68	33.75		0.00	0.00	33.75	3564.93
	10/25/04	3598.68	31.74		0.00	0.00	31.74	3566.94
	01/24/05	3598.68	30.01		0.00	0.00	30.01	3568.67
	04/18/05	3598.68	30.24		0.00	0.00	30.24	3568.44
	07/18/05	3598.68	30.86		0.00	0.00	30.86	3567.82
	10/17/05	3598.68	30.88		0.00	0.00	30.88	3567.80
	11/03/05	3598.68	30.91	30.90	0.01	0.01	30.90	3567.78
	11/10/05	3598.68	30.92		0.00	0.00	30.92	3567.76
	11/16/05	3598.68	29.70		0.00	0.00	29.70	3568.98
	11/22/05	3598.68	30.94		0.00	0.00	30.94	3567.74
	12/06/05	3598.68	31.00		0.00	0.00	31.00	3567.68
	12/12/05	3598.68	31.06		0.00	0.00	31.06	3567.62
	12/21/05	3598.68	31.12		0.00	0.00	31.12	3567.56
	01/04/06	3598.68	31.22		0.00	0.00	31.22	3567.46
	01/23/06	3598.68	31.17		0.00	0.00	31.17	3567.51
	04/24/06	3598.68	31.88		0.00	0.00	31.88	3566.80
	07/24/06	3598.68	32.44		0.00	0.00	32.44	3566.24
	10/23/06	3598.68	31.95		0.00	0.00	31.95	3566.73
	01/23/07	3598.68	32.17		0.00	0.00	32.17	3566.51
	04/23/07	3598.68	32.70		0.00	0.00	32.70	3565.98
	07/23/07	3598.68	32.86		0.00	0.00	32.86	3565.82
	10/22/07	3598.68	32.67	32.66	0.01	0.01	32.66	3566.02
	01/28/08	3598.68	32.96	32.95	0.01	0.01	32.95	3565.73
	04/21/08	3598.68	33.38		0.00	0.00	33.38	3565.30
	07/21/08	3598.68	33.87		0.00	0.00	33.87	3564.81
	10/21/08	3598.68	34.14		0.00	0.00	34.14	3564.54
	01/19/09	3598.68	34.25		0.00	0.00	34.25	3564.43
SVE-5	10/25/02	3600.54	38.82	35.92	2.90	2.32	36.50	3564.04
	11/07/02	3600.54	40.80	35.57	5.23	4.18	36.62	3563.92
	11/22/02	3600.54	dry	dry				
	12/18/02	when pumping from EW-2, SVE-5 may have no detection of water/free product during pumping interval;						
	12/18/02	conducted enhanced free product recovery via vacuum truck						
	02/26/03	3600.54	36.30	30.54	5.76	4.61	31.69	3568.85
	03/13/03	conducted enhanced free product recovery via vacuum truck						
	11/05/03	3600.54	40.58	36.54	4.04	3.23	37.35	3563.19
	01/19/04	3600.54	39.84	36.81	3.03	2.42	37.42	3563.12
	04/19/04	3600.54	40.56	36.87	3.69	2.95	37.61	3562.93
	07/20/04	3600.54	40.32	36.66	3.66	2.93	37.39	3563.15
	10/25/04	3600.54	35.23	35.20	0.03	0.02	35.21	3565.33
	01/24/05	3600.54	33.50	33.38	0.12	0.10	33.40	3567.14
	04/18/05	3600.54	33.84	33.67	0.17	0.14	33.70	3566.84
	07/18/05	3600.54	35.71	34.18	1.53	1.22	34.49	3566.05
	09/29/05	3600.54	34.41		0.00	0.00	34.41	3566.13
	10/17/05	3600.54	dry	dry	0.00	0.00		
	11/03/05	3600.54	dry	dry	0.00	0.00		
	11/10/05	3600.54	dry	dry	0.00	0.00		
	11/16/05	3600.54	dry	dry	0.00	0.00		
	11/22/05	3600.54	dry	dry	0.00	0.00		
	11/29/05	3600.54	dry	dry	0.00	0.00		
	12/06/05	3600.54	dry	dry	0.00	0.00		
	12/12/05	3600.54	dry	dry	0.00	0.00		
	01/23/06	3600.54	dry	dry	0.00	0.00		
	04/24/06	3600.54	26.42	26.41	0.01	0.01	26.41	3574.13

Table 1
Water Level Measurements
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico
(all measurements in feet)

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
EW-1	06/07/02	3598.57	34.33	30.73	3.60	2.88	31.45	3567.12
	08/26/02	redeveloped well, conducted enhanced free product recovery via vacuum truck						
	11/22/02	3598.57	37.82	30.65	7.17	5.74	32.08	3566.49
	12/18/02	redeveloped well, conducted enhanced free product recovery via vacuum truck						
EW-2	09/19/02	3597.95	33.60		0.00	0.00	33.60	3564.35
	10/03/02	3597.95	33.61		0.00	0.00	33.61	3564.34
	10/23/02	3597.95	33.71		0.00	0.00	33.71	3564.24
	10/24/02	3597.95	33.73		0.00	0.00	33.73	3564.22
	10/25/02	3597.95	33.74		0.00	0.00	33.74	3564.21
	11/15/02	3597.95	33.83		0.00	0.00	33.83	3564.12
	11/29/02	3597.95	33.83		0.00	0.00	33.83	3564.12
	12/18/02	3597.95	33.65	33.60	0.05	0.04	33.61	3564.34
	12/18/02	redeveloped well, conducted enhanced free product recovery via vacuum truck						
	03/04/03	3597.95	33.65	31.23	2.42	1.94	31.71	3566.24
	03/13/03	redeveloped well, conducted enhanced free product recovery via vacuum truck						
	03/13/03	3597.95	33.80	33.59	0.21	0.17	33.63	3564.32
	04/07/03	3597.95	35.40	33.53	1.87	1.50	33.90	3564.05
	06/23/03	3597.95	33.62	29.02	4.60	3.68	29.94	3568.01
	06/23/03	re-adjusted free product pump						
	06/24/03	3597.95	33.51	33.50	0.01	0.01	33.50	3564.45
	04/24/06	3597.95	33.25	32.98	0.27	0.22	33.03	3564.92

Notes:

L.P.H. = Liquid Phase Hydrocarbon

NM = Not Measured

Blank Fields Indicate No Data

Table 2a
Summary of Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
MW-13	04/22/08	7,500	<25	730	<25	8,230	18	0.80
	4/22/08 D	7,100	<25	660	<25	7,760	17	0.77
	07/22/08	5,500	<25	400	<25	5,900	14	0.92
	01/20/09	5,600	<5.0	390	25	6,015	15	0.96
	01/20/09 D	5,800	<1.0	89	4.8	5,894	17	0.65
EW-2	04/22/08	2,400	<10	390	502	3,292	9.2	100
	07/22/08	1,400	<5.0	230	240	1,870	6.1	31
	10/21/08	980	18	360	367	1,725		19
	01/20/09	1,100	1.0	280	280	1,661	5.1	4.8
IW-2	04/22/08	<1.0	<1.0	<1.0	<1.0	BDL	0.25	44
	07/22/08	<1.0	1.2	2.0	8.7	11.9	1.9	77
	10/21/08	<1.0	<1.0	<1.0	1.4	1.4		58
	01/20/09	<1.0	<1.0	<1.0	<1.0	BDL	<0.1	6.8
IW-3	04/22/08	<1.0	<1.0	<1.0	1.1	1.1	0.46	58
	07/22/08	<1.0	<1.0	<1.0	1.2	1.2	0.28	82
	10/21/08	<1.0	<1.0	<1.0	1.0	1.0		0.6
	01/20/09	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	1.0
IW-4	04/22/08	<1.0	<1.0	<1.0	1.3	1.3	0.51	51
	07/22/08	<1.0	<1.0	<1.0	1.1	1.1	0.32	55
	10/21/08	<1.0	1.3	<1.0	2.6	3.9		9.8
	01/20/09	<1.0	<1.0	<1.0	<1.0	BDL	0.23	18
IW-5	04/22/08	20	<1.0	<1.0	1.5	21.5	0.51	54
	07/22/08	160	1.6	1.5	2.1	165.2	0.95	66
	10/21/08	230	1.3	<1.0	3.2	234.5		22
	01/20/09	<1.0	<1.0	<1.0	1.1	1.1	0.30	15
IW-7	04/22/08	<1.0	<1.0	<1.0	1.1	1.1	0.38	68
	07/22/08	<1.0	<1.0	<1.0	1.8	1.8	4.4	70
	10/21/08	<1.0	<1.0	<1.0	1.1	1.1		14
	01/20/09	<1.0	<1.0	<1.0	1.2	1.2	0.38	32
SVE-1	04/22/08	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	<0.10
	07/22/08	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	<0.10
	7/22/2008 D	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.11
	10/21/08	<1.0	<1.0	<1.0	<1.0	BDL		<0.05
	10/21/2008 D	<1.0	<1.0	<1.0	<1.0	BDL		<0.05
	01/20/09	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.064

Notes:

µg/L = micrograms per liter
 mg/L = milligrams per liter

BDL = below detection limit
 D = duplicate sample

Blank fields indicate no data

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
MW-2	07/16/99	3.6	2.7	1.3	0.5	8.1	<2.0	<2.0
	10/20/99	4.2	2.5	1.3	1.3	9.3	<2.0	<2.0
	01/13/00	1.9	0.5	<0.5	<0.5	2.4	<2.0	<2.0
	04/06/00	4.3	4.1	1.4	<2	9.8	<1.0	<1.0
	08/01/00	1.7	1.5	0.72	<2	3.9	<1.0	<1.0
	11/15/00	52.0	36.0	7.80	9.4	105.2	0.64	<0.52
	03/06/01	7.3	5.0	1.40	2.1	15.8	0.14	<0.56
	06/26/01	4.9	3.2	1.00	<2	9.1	0.18	<0.56
	09/25/01	18.0	7.4	1.40	2.1	28.9	0.20	<0.56
	12/12/01	3.6	2.9	<1.0	1.6	8.1	<0.10	0.122
	05/20/02	3.7	2.0	<1.0	1.8	7.5	<0.10	0.117
MW-3	07/16/99	<0.5	<0.5	<0.5	<0.5	0.0	<2.0	<2.0
	10/20/99	2.6	1.0	<0.5	<0.5	3.6	<2.0	<2.0
	01/13/00	20	16	9.2	20	65.2	<2.0	<2.0
	04/06/00	3,800	3,800	910	1,100	9,610	<1.0	<1.0
MW-4	07/16/99	720	1,100	260	280	2,360	3.0	3.0
MW-9	07/16/99	<0.5	<0.5	<0.5	<0.5	0.0	<2.0	<2.0
	10/20/99	2.8	<0.5	<0.5	<0.5	2.8	<2.0	<2.0
	01/13/00	110	2	20	15	147.0	<2.0	<2.0
	04/06/00	2,700	870	500	460	4,530	0.37	0.37
	08/01/00	3,400	1,100	520	270	5,290	1.10	1.10
	11/15/00	4,200	120	460	140	4,920	16	0.73
	03/06/01	4,300	370	920	210	5,800	20	<0.56
MW-10	07/16/99	1.8	<0.5	<0.5	<0.5	1.8	<2.0	<2.0
	10/20/99	3.8	2.3	<0.5	<0.5	6.1	<2.0	<2.0
	01/13/00	2	1	2.5	2	7.5	<2.0	<2.0
	04/06/00	2.7	7.2	0.69	<2	10.6	<1.0	<1.0
	08/01/00	40	1.2	2.7	10	53.9	<1.0	<1.0
	11/15/00	2,000	18	310	210	2,538	9	0.78
	03/06/01	4,400	7.8	120	190	4,718	17	0.57
	06/26/01	5,600	1,300	670	<40	7,570	31	2.4
	09/25/01	5,900	1,200	760	570	8,430	26	<0.53
	12/12/01	7,090	1,560	868	655	10,173	23.5	1.35
	05/20/02	9,000	1,170	1,100	640	11,910	26.4	1.4
MW-11	10/20/99	<0.5	<0.5	1.2	1.3	2.5	<2.0	<2.0
	01/13/00	<0.5	<0.5	<0.5	<0.5	0.0	<2.0	<2.0
	04/06/00	<0.5	<0.5	<0.5	<2	0.0	<1.0	<1.0
	08/01/00	<0.5	<0.5	<0.5	<2	0.0	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	0.0	<0.10	2.0
	03/06/01	0.64	1.1	<0.5	<2	1.7	<0.10	<0.56
	06/26/01	<0.5	<0.5	<0.5	<2	0.0	<0.10	<0.53
	09/25/01	1.3	<0.5	<0.5	<2	1.3	<0.10	<0.54
	12/12/01	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	05/20/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
MW-12	10/20/99	1.1	<0.5	<0.5	<0.5	1.1	<2.0	<2.0
	01/13/00	<0.5	<0.5	<0.5	<0.5	0.0	<2.0	<2.0
	04/06/00	<0.5	<0.5	<0.5	<2	0.0	<1.0	<1.0
	08/01/00	<0.5	<0.5	<0.5	<2	0.0	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	0.0	<0.10	<0.56
	03/06/01	0.85	0.63	<0.5	<2	1.5	<0.10	<0.56
	06/26/01	<0.5	<0.5	<0.5	<2	0.0	<0.10	<0.53
	09/25/01	2.8	0.53	<0.5	<2	3.3	<0.10	<0.52
	12/12/01	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	05/20/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
MW-13	04/06/00	<0.5	<0.5	<0.5	<2	0.0	<1.0	<1.0
	08/01/00	<0.5	<0.5	<0.5	<2	0.0	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	0.0	<0.10	0.57
	03/06/01	<0.5	1.3	<0.5	<2	1.3	<0.10	<0.55
	06/26/01	<0.5	<0.5	<0.5	<2	0.0	<0.10	<0.5
	09/25/01	22	3.4	2.5	<2	27.9	0.15	<0.5
	12/12/01	439	<1.00	<1.00	20.4	459.4	1.24	0.125
	05/20/02	<1.00	<1.00	<1.00	32.8	32.8	0.535	0.184
	08/29/02	<5.00	1.0	<1.00	1.3	2.3	0.145	0.133
	01/15/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	0.116
	04/23/03	<1.00	<1.00	5.2	<1.00	5.2	0.124	<0.10
	07/14/03	<1.00	<1.00	14.2	<1.00	14.2	0.125	<0.10
	10/16/03	<1.0	<1.0	21	<3.0	21	<0.10	<0.048
	10/26/04	14	<1.0	300	<3.0	314	1.2	3.0
	01/25/05	1,000	<1.0	1,400	<3.0	2,400	4.7	0.79
	04/19/05	1,400	<1.0	780	<3.0	2,180	4.9	0.90
	07/19/05	1,200	<1.0	540	<3.0	1,740	4.2	0.69
	10/18/05	360	<1.0	430	6.8	797	2.1	0.88
	01/24/06	1,100	<1.0	460	<3.0	1,560	4.7	1.1
	04/25/06	5,300	<1.0	640	<3.0	5,940	14	1.1
	4/25/2006 D	3,700	<1.0	470	<3.0	4,170	11	1.0
	07/25/06	5,900	<1.0	460	<3.0	6,360	16	1.7
	7/25/2006 D	5,400	<1.0	490	<3.0	5,890	16	1.6
	10/24/06	5,700	<1.0	610	<3.0	6,310	14	1.5
	10/24/06 D	5,200	<1.0	650	<3.0	5,850	12	1.3
	01/24/07	6,200	<1.0	720	<3.0	6,920	16	1.5
	01/24/07 D	5,800	<1.0	680	<3.0	6,480	17	1.5
	04/24/07	5,100	<1.0	430	11	5,541	1.3	1.1
	4/24/07 D	5,300	<1.0	430	10	5,740	1.3	1.0
	07/24/07	5,700	<1.0	610	<3.0	6,310	0.54	1.7
	07/24/07 D	5,400	<1.0	590	<3.0	5,990	0.58	1.6
	10/23/07	5,100	<1.0	590	<3.0	5,690	1.1	1.5
	10/23/07 D	5,500	<1.0	620	<3.0	6,120	1.1	1.3
	01/29/08	5,600	<50	600	<50	6,200	0.65	1.5
	01/29/08 D	5,700	<25	630	<25	6,330	0.97	1.5
	04/22/08	7,500	<25	730	<25	8,230	18	0.8
	4/22/2008 D	7,100	<25	660	<25	7,760	17	0.77
	07/22/08	5,500	<25	400	<25	5,900	14	0.92
	01/20/09	5,600	<5	390	25	6,015	15	0.96
	1/20/2009 D	5,800	<1.0	89	4.80	5,894	17.00	0.7
EW-1	11/15/02	7,460	5,130	1,590	1,590	15,770	21.4	NA
	11/22/02	9,340	6,150	2,270	2,210	19,970	15.3	NA
	04/24/03	4,410	2,500	952	793	8,655	13.1	2.56
	07/14/03	2,590	2,160	406	471	5,627	6.01	1.56
	10/16/03	2,800	1,800	690	680	5,970	11	460
EW-2	11/15/02	2,160	1,390	307	489	4,346	8.88	NA
	11/22/02	2,110	2,340	881	1,280	6,611	11.3	NA
	04/24/03	3,080	2,680	541	885	7,186	6.07	<1.0
	07/14/03	1,760	1,790	198	559	4,307	2.92	<2.0
	10/16/03	2,800	2,600	440	720	6,560	12	0.88
	10/16/03	2,800	2,600	440	720	6,560	12	0.88
	07/20/05	4,500	1,500	460	640	7,100	21	2.6
	01/24/06	6,400	2,300	910	890	10,500	34	4.9
	04/25/06	6,800	2,600	840	950	11,190	32	960
	10/24/06	4,800	1,300	880	1,100	8,080	23	67
	01/24/07	5,200	220	760	930	7,110	21	130
	04/24/07	2,600	54	400	570	3,624	12	1,600
	07/24/07	3,200	150	720	1,000	5,070	17	130
	10/23/07	3,500	28	540	490	4,558	15	26
	01/29/08	3,100	26	520	610	4,256	12	45
	04/22/08	2,400	<10	390	430	3,220	9.2	100
	07/22/08	1,400	<5	230	240	1,870	6.1	31
	10/21/08	980	18	360	367	1,725		19
	01/20/09	1,100	1	280	280	1,661	5.1	4.8

Table 2b
Groundwater Analytical Data - Organics
ConocoPhillips
Line NM1-1
Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
IW-2	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/15/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	04/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.20
	07/21/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	10/26/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	01/25/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.062
	04/19/05	<1.0	<1.0	1.3	<3.0	1.3	<0.10	5.2
	07/19/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.16
	10/18/05	19	<1.0	18	12	49.0	1.8	25
	01/24/06	20	63	88	140	311.0	2.0	71
	04/25/06	2.8	5	13	15	35.4	0.83	15
	07/25/06	4.0	<1.0	54	75	133.0	1.60	37
	10/24/06	3.0 F	<1.0	21 F	16	40.0	0.91	68
	01/24/07	1.8	<1.0	7.0	3.1	11.9	0.46	59
	04/24/07	<1.0	<1.0	6.1	<3.0	6.1	0.45	32
	07/24/07	<1.0	<1.0	<1.0	<3.0	0.0	0.23	29
	10/23/07	<1.0	<1.0	19	5.0	24.0	2.5	200
	01/29/08	<1.0	<1.0	<1.0	<1.0	0.0	0.27	37
	04/22/08	<1.0	<1.0	<1.0	<1.0	0.0	0.25	44
	07/22/08	<1.0	1.2	2.0	8.7	11.9	1.90	77
	10/21/08	<1.0	<1.0	<1.0	1.4	1.4		58
	01/20/09	<1.0	<1.0	<1.0	<1.0	0.0	<0.1	6.8
IW-3	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/15/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	04/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.20
	07/21/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.061
	10/26/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.072
	01/25/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	04/19/05	1.5	2.4	5.0	7.4	16.3	0.27	14
	07/19/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	1.1
	10/18/05	6.2	<1.0	13	11	30.2	1.4	180
	01/24/06	17	8.0	14	9.3	48.3	1.6	87
	04/25/06	6	<1.0	10	5.1	20.7	1.3	64
	07/25/06	3	<1.0	6	4.2	13.8	0.91	18
	10/24/06	2.4 F	<1.0	7.4 F	<3.0	9.8	0.58	53
	01/24/07	1.8	<1.0	<1.0	<3.0	1.8	4.1	67
	04/24/07	2.8	<1.0	13	3.7	19.5	1.4	96
	07/24/07	3.0	<1.0	<1.0	3.5	6.5	1.1	23
	10/23/07	2.1	<1.0	14	3.4	19.5	1.2	62
	01/29/08	<1.0	<1.0	<1.0	1.1	1.1	0.71	41
	04/22/08	<1.0	<1.0	<1.0	1.1	1.1	0.46	58
	07/22/08	<1.0	<1.0	<1.0	1.2	1.2	0.28	82
	10/21/08	<1.0	<1.0	<1.0	1.0	1.0		0.6
	01/20/09	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	1
IW-4	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	04/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.20
	07/21/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	10/26/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.082
	01/25/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.31
	04/19/05	2.6	3.0	5.4	8.2	19.2	0.33	10

Table 2b
Groundwater Analytical Data - Organics
ConocoPhillips
Line NM1-1
Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
IW-4 cont.	07/19/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	1.1
	10/18/05	32	1.5	2.6	14	50.1	0.98	70
	01/24/06	17	2.2	1.9	9.3	30.4	0.79	35
	04/25/06	13	1.0	8.4	10.0	32.4	1.2	56
	07/25/06	6.1	<1.0	11.0	9.0	26.1	1.4	52
	10/24/06	4.2 F	<1.0	8.2 F	7.8	20.2	1.5	120
	01/24/07	2.6	<1.0	<1.0	7.2	9.8	1.4	0.10
	04/24/07	2.1	<1.0	9.8	4.6	16.5	0.88	88
	07/24/07	3.5	11	6.6	7.9	29.0	0.52	26
	10/23/07	1.8	<1.0	5.1	<3.0	6.9	0.57	53
	01/29/08	1.2	<1.0	<1.0	<1.0	1.2	0.42	51
	04/22/08	<1.0	<1.0	<1.0	1.3	1.3	0.51	51
	07/22/08	<1.0	<1.0	<1.0	1.1	1.1	0.32	55
IW-5	10/21/08	<1.0	1.3	<1.0	2.6	3.9		9.4
	01/20/09	<1.0	<1.0	<1.0	<1.0	0.0	0.23	18
	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	01/15/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.086
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	16
	04/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.25
	07/21/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	2.7
	10/26/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.048
	01/25/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.43
	04/19/05	1.1	1.2	1.4	<3.0	3.7	<0.10	2.0
	07/19/05	1.9	<1.0	<1.0	<3.0	1.9	<0.10	0.22
	10/18/05	20	<1.0	5.5	9.7	35.2	0.89	70
	01/24/06	4.1	3.1	2.9	6.2	16.3	0.55	4.5
	04/25/06	1.8	<1.0	8.4	10.0	20.2	1.20	56
	07/25/06	2.7	<1.0	7.4	3.7	13.8	0.96	99
	10/24/06	2.6	<1.0	12.0	3.0	17.6	0.89	130
	01/24/07	1.6	<1.0	<1.0	<3.0	1.6	2.1	48
	04/24/07	1.5	<1.0	5.9	<3.0	7.4	0.59	48
	07/24/07	<1.0	<1.0	<1.0	<3.0	0.0	0.33	8.5
	10/23/07	<1.0	<1.0	4.6	<3.0	4.6	0.44	42
	01/29/08	<1.0	<1.0	<1.0	1.4	1.4	0.36	4.9
	04/22/08	20.0	<1.0	<1.0	1.5	21.5	0.51	54
	07/22/08	160.0	1.6	1.5	2.1	165.2	0.95	66
	10/21/08	230.0	1.3	<1.0	3.2	234.5		22
	01/20/09	<1.0	<1.0	<1.0	1.1	1.1	0.30	15
IW-6	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	7.62
	01/15/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.15
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	11
	10/26/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	1.4
	01/25/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.76
	04/19/05	3.1	3.0	4.7	<3.0	10.8	0.19	2.0
	07/19/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	3.4
	10/18/05	7.1	<1.0	4.4	17	28.5	0.88	110
	01/24/06	3.3	2.8	<1.0	12	18.1	0.71	48
	10/24/06	2.1 F	<1.0	8.4 F	6.8	17.3	0.87	61
IW-7	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	01/15/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.64
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	0.15	40
	04/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	1.7
	07/21/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	18
	10/26/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	3.3

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
IW-7 cont.	01/25/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.21
	04/19/05	1.4	4.2	8.7	6.7	21.0	0.55	2.1
	07/19/05	<1.0	<1.0	<1.0	<3.0	0.0	0.10	0.30
	10/18/05	8.5	3.7	6.7	35	53.9	2.3	360
	01/24/06	6.4	5.3	6.1	30	47.8	1.4	41
	04/25/06	5.5	<1	23.0	30	58.5	2.7	330
	07/25/06	4.3	<1	8.6	13	25.9	1.4	110
	10/24/06	3.2 F	<1.0	12 F	13	28.2	1.1	44
	01/24/07	1.8	<1.0	<1.0	6.6	8.4	0.95	57
	04/24/07	<1.0	<1.0	11	5.5	16.5	1.2	67
	07/24/07	1.4	<1.0	<1.0	<3.0	1.4	0.42	4.8
	10/23/07	<1.0	<1.0	4.5	<3.0	4.5	0.37	19
	01/29/08	<1.0	<1.0	<1.0	<1.0	0.0	0.27	58
	04/22/08	<1.0	<1.0	<1.0	1.1	1.1	0.38	68
	07/22/08	<1.0	<1.0	<1.0	1.8	1.8	4.40	70
SVE-1	10/21/08	<1.0	<1.0	<1.0	1.1	1.1		14
	01/20/09	<1.0	<1.0	<1.0	1.2	1.2	0.38	32
	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.055
	04/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.20
	07/21/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.059
	10/26/04	79	2.8	<1.0	<3.0	81.8	0.32	0.099
	01/25/05	62	3.4	1.9	12	79.3	0.41	0.34
	04/19/05	54	1.4	1.7	7.7	64.8	0.21	0.048
	07/19/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.32
	10/18/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.31
	01/24/06	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.10
	04/25/06	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.069
	07/25/06	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.049
	10/24/06	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.049
	01/24/07	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.049
	04/24/07	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.050
	07/24/07	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.12
	10/23/07	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.050
	01/29/08	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	<0.10
	04/22/08	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	<0.10
	07/22/08	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	<0.10
	7/22/2008 D	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.11
	10/21/08	<1.0	<1.0	<1.0	<1.0	0.0		<0.05
	10/21/2008 D	<1.0	<1.0	<1.0	<1.0	0.0		<0.05
	01/20/09	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.064

Notes:

µg/L = micrograms per liter

mg/L = milligrams per liter

NA= not analyzed

D = Duplicate Sample

TPH-GRO = Total Volatile Petroleum Hydrocarbons (TVPH)

TPH-DRO = Total Extractable Petroleum Hydrocarbons (TEPH)

F = Reported value estimated due to an interference

Table 2c
Groundwater Analytical Data - Inorganics
ConocoPhillips
Line NM1-1
Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)
MW-2	07/16/99	28			
	10/20/99	180			
	01/13/00	200			
	04/06/00	190			
	08/01/00	180			
	11/15/00	170			
	03/06/01	160			
	06/26/01	170			
	09/25/01	150			
	12/12/01	151			
MW-3	05/20/02	137	590	3.09	0.098
	07/16/99	170			
	10/20/99	120			
	01/13/00	160			
MW-4	04/06/00	170			
	07/16/99	190			
MW-9	07/16/99	140			
	10/20/99	110			
	01/13/00	130			
	04/06/00	140			
	08/01/00	140			
	11/15/00	140			
MW-10	03/06/01	130			
	07/16/99	100			
	10/20/99	120			
	01/13/00	170			
	04/06/00	210			
	08/01/00	160			
	11/15/00	200			
	03/06/01	180			
	06/26/01	170			
	09/25/01	170			
MW-11	12/12/01	169			
	05/20/02	164	594	1.87	0.303
	10/20/99	120			
	01/13/00	140			
	04/06/00	120			
	08/01/00	110			
	11/15/00	110			
	03/06/01	100			
	06/26/01	110			
	09/25/01	150			
MW-12	12/12/01	100			
	05/20/02	96	1,280	3.43	0.051
	10/20/99	140			
	01/13/00	140			
	04/06/00	130			
	08/01/00	120			
	11/15/00	120			
	03/06/01	91			
	06/26/01	120			
	09/25/01	110			
MW-13	12/12/01	109			
	05/20/02	100	845	11.7	0.106
	04/06/00	56			
	08/01/00	71			
	11/15/00	86			
	03/06/01	110			
	06/26/01	120			
	09/25/01	110			
	12/12/01	114			

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)
MW-13 cont.	05/20/02	111	905	1.2	0.018
	08/29/02	106		5.72	
	01/15/03	113			
	04/23/03	406		0.351	
	07/14/03	125			
	10/16/03	120			
	10/26/04	120			
	01/25/05	130			
	04/19/05	117			
	04/19/05 D	103			
	07/19/05	116			
	7/19/05 D	115			
	10/18/05	108			
	10/18/05 D	106			
	01/24/06	109			
	01/24/06 D	115			
	04/25/06	107		1.4	0.11
	4/25/2006 D	109		1.7	0.11
	07/25/06	69.2			
	7/25/2006 D	69.7			
	10/24/06	80.7			
	10/24/06 D	69.5			
	01/24/07	63.9			
	01/24/07 D	67.1			
	04/24/07	55.9		2.7	0.16
	04/24/07 D	56.0		2.8	0.17
	07/24/07	63.6			
	07/24/07 D	63.6			
	10/23/07	75.8			
	10/23/07 D	80.7			
	01/29/08	70.0			
	01/29/08 D	73.1			
	04/22/08	37.3		4.6	0.177
	4/22/2008 D	39.3		4.5	0.177
	07/22/08	33.5			
	01/20/09	77.5			
	01/20/09	79.8			
EW-1	07/16/03	172			
	10/16/03	147		0.22	
EW-2	07/16/03	160			
	10/16/03	164			
	07/20/05	110		0.22	
	01/24/06	74.5			
	04/25/06	52.7		0.48	0.044
	10/24/06	56.3			
	01/24/07	38.5			
	04/24/07	77.6		8.7	0.22
	07/24/07	52.9			
	10/23/07	55.1			
	01/29/08	70.2			
	04/22/08	79.1		0.26	0.0299
	07/22/08	123.0			
	10/21/08	68.6			
	01/20/09	113.0			
IW-2	08/29/02	86		6.55	
	01/14/03	132			
	04/23/03	152		0.089	
	07/14/03	171			
	10/15/03	103			
	01/20/04	97			
	04/20/04	99.4			

Table 2c
Groundwater Analytical Data - Inorganics
ConocoPhillips
Line NM1-1
Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)
IW-2 cont.	07/21/04	121			
	10/26/04	146			
	01/25/05	158			
	04/19/05	146			
	07/19/05	125			
	10/18/05	107			
	01/24/06	105			
	04/25/06	110		0.69	0.13
	07/25/06	68.9			
	10/24/06	80.8			
	01/24/07	83.9			
	04/24/07	82.0		0.33	
	07/24/07	71.5			
	10/23/07	77.5			
	01/29/08	78.4			
	04/22/08	83.3		0.28	0.00606
	07/22/08	74.1			
	10/21/08	73.8			
	01/20/09	78.2			
IW-3	08/29/02	82		8.28	
	01/14/03	94.6			
	04/23/03	115		1.47	
	07/14/03	161			
	10/15/03	99.1			
	01/20/04	89.3			
	04/20/04	91.5			
	07/21/04	148			
	10/26/04	90.2			
	01/25/05	158			
	04/19/05	148			
	07/19/05	124			
	10/18/05	106			
	01/24/06	97.7			
	04/25/06	103.0		0.68	0.21
	07/25/06	87.8			
	10/24/06	91.4			
	01/24/07	90.7			
	04/24/07	93.1		0.60	0.074
	07/24/07	89.7			
	10/23/07	89.9			
	01/29/08	87.4			
	04/22/08	97.2		0.41	0.0336
	07/22/08	79.5			
	10/21/08	73.7			
	01/20/09	87.5			
IW-4	08/29/02	99.5		2.45	
	01/14/03	111			
	04/23/03	153		0.221	
	07/14/03	4			
	10/16/03	141			
	01/20/04	114			
	04/20/04	101			
	07/21/04	125			
	10/26/04	139			
	01/25/05	154			
	04/19/05	147			
	07/09/05	125			
	10/18/05	108			
	01/24/06	115			
	04/25/06	131		3.0	0.44
	07/25/06	41			
	10/24/06	56.6			

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)
IW-4 cont.	01/24/07	53.7			
	04/24/07	56.2		0.87	0.23
	07/24/07	51.4			
	10/23/07	41.1			
	01/29/08	34.7			
	04/22/08	54.5		0.36	0.102
	07/22/08	46.7			
	10/21/08	55.1			
IW-5	01/20/09	66.3			
	08/29/02	90		3.33	
	01/15/03	117			
	04/23/03	156		2.13	
	07/14/03	160			
	10/16/03	166			
	01/20/04	140			
	04/20/04	124			
	07/21/04	138			
	10/26/04	128			
	01/25/05	156			
	04/19/05	147			
	07/19/05	124			
	10/18/05	110			
	01/24/06	131			
	04/25/06	141		1.3	0.32
	07/25/06	93			
	10/24/06	129			
	01/24/07	131			
	04/24/07	138		1.0	0.14
	07/24/07	133			
	10/23/07	129			
	01/29/08	135			
	04/22/08	166		1.7	0.112
	07/22/08	111			
	10/21/08	105			
	01/20/09	144			
IW-6	08/29/02	92		7.16	
	01/15/03	100			
	04/23/03	132		0.27	
	07/14/03	120			
	10/16/04	165			
	01/20/04	138			
	10/26/04	76.6			
	01/25/05	156			
	04/19/05	145			
	07/19/05	123			
	10/18/05	110			
	01/24/06	115			
IW-7	10/24/06	160			
	08/29/02	161		18.6	
	01/15/03	142			
	04/23/03	152		0.524	
	07/14/03	140			
	10/16/03	165			
	01/20/04	138			
	04/20/04	160			
	07/21/04	142			
	07/21/04 D	139			
	10/26/04	125			
	01/25/05	155			
	01/25/05 D	157			
	04/19/05	131			
	07/09/15	125			

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)
IW-7 cont.	10/18/05	107			
	01/24/06	102			
	04/25/06	105		0.23	0.31
	07/25/06	87			
	10/24/06	88.7			
	01/24/07	91.9			
	04/24/07	92.6		0.45	0.055
	07/24/07	85.9			
	10/23/07	81.9			
	01/29/08	89.4			
	04/22/08	107.0		0.77	0.0407
	07/22/08	72.7			
	10/21/08	69.5			
	01/20/09	83.2			
SVE-1	08/29/02	96.5			
	01/14/03	122			
	04/23/03	123		2.27	
	07/14/03	117			
	10/16/03	113			
	01/20/04	105			
	04/20/04	109			
	07/21/04	103			
	10/26/04	52.7			
	01/25/04	73.9			
	04/19/05	97.2			
	07/19/05	102			
	10/18/05	96.5			
	01/24/06	109			
	04/25/06	140			0.018
	07/25/06	112			
	10/24/06	117			
	01/24/07	121			
	04/24/07	124			
	07/24/07	120			
	10/23/07	121			
	01/29/08	120			
	04/22/08	86.8		<0.02	<0.005
	07/22/08	124			
	7/22/08 D	124			
	10/21/08	113			
	10/21/08 D	105			
	01/20/09	137			

Notes:

mg/L = milligrams per liter

D = Duplicate Sample

Blank Fields Indicate No Data

Table 2d
Groundwater Data - WQCC and PAH Analyses
ConocoPhillips - Line NM1-1
Hobbs, New Mexico

WQCC Analytes (mg/L)	IW-2	IW-3	IW-4	IW-5	IW-7	MW-13	MW-13 D	SVE-1	EW-2	WQCC Standards
Total Dissolved Solids	558	645	492	779	699	660	735	680	648	1,000
Fluoride	1.0	0.837	1.25	0.579	0.966	1.07	1.06	1.21	0.558	1.6
Aluminum	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.0
Arsenic	0.0127	0.0119	0.0115	0.015	0.0216	0.03	0.0303	0.00945	0.0146	0.1
Barium	0.137	0.292	0.592	0.338	0.183	3.82	3.83	0.0955	2.12	1.0
Boron	0.185	0.188	0.147	0.249	0.274	0.385	0.381	0.254	0.244	0.75
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Copper	<0.005	0.00644	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1.0
Iron	0.279	0.414	0.363	1.7	0.772	4.6	4.51	<0.02	0.261	1.0
Lead	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Manganese	0.00606	0.0336	0.102	0.11	0.0407	0.18	0.177	<0.005	0.0299	0.2
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Molybdenum	0.0199	0.0109	<0.01	<0.01	0.0402	<0.01	<0.01	<0.01	<0.01	1.0
Nickel	0.013	0.00647	<0.005	0.0147	0.0254	<0.005	<0.005	<0.005	<0.005	0.2
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Silver	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Zinc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	10
Uranium (pCi/L)										
U-234	0.909	1.836	4.48	1.568		3.81	3.92	2.682	0.215	
U-235	0.082	0.037	0.12	0.027		0.075	0.074	0.005	0.021	
U-238	0.685	1.123	2.977	0.94		2.481	2.426	1.544	0.189	
PAH Analytes (µg/L)										
1-Methylnaphthalene	<20	<20	<20	<20	<20	27	33	<5	180	30
2-Methylnaphthalene	<20	<20	<20	<20	<20	27	32	<5	160	30
Acenaphthene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Acenaphthylene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Anthracene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Benzo(a)anthracene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Benzo(a)pyrene	<20	<20	<20	<20	<20	<5	<5	<5	<50	0.7
Benzo(b)fluoranthene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Benzo(ghi)perylene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Benzo(k)fluoranthene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Chrysene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Dibenz(a,h)anthracene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Dibenzofuran	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Fluoranthene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Fluorene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Indeno(1,2,3-cd)pyrene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Naphthalene	<20	<20	<20	<20	<20	<5	<5	<5	<50	
Phenanthrene	<20	<20	<20	<20	<20	<5	<5	<5	67	30
Pyrene	<20	<20	<20	<20	<20	<5	<5	<5	<50	

Notes:

Samples collected on 04/22/08
mg/L = Milligrams per liter
µg/L = Micrograms per liter
pCi/L = picoCuries per liter

D = Duplicate sample

WQCC = New Mexico Water Quality Control Commission

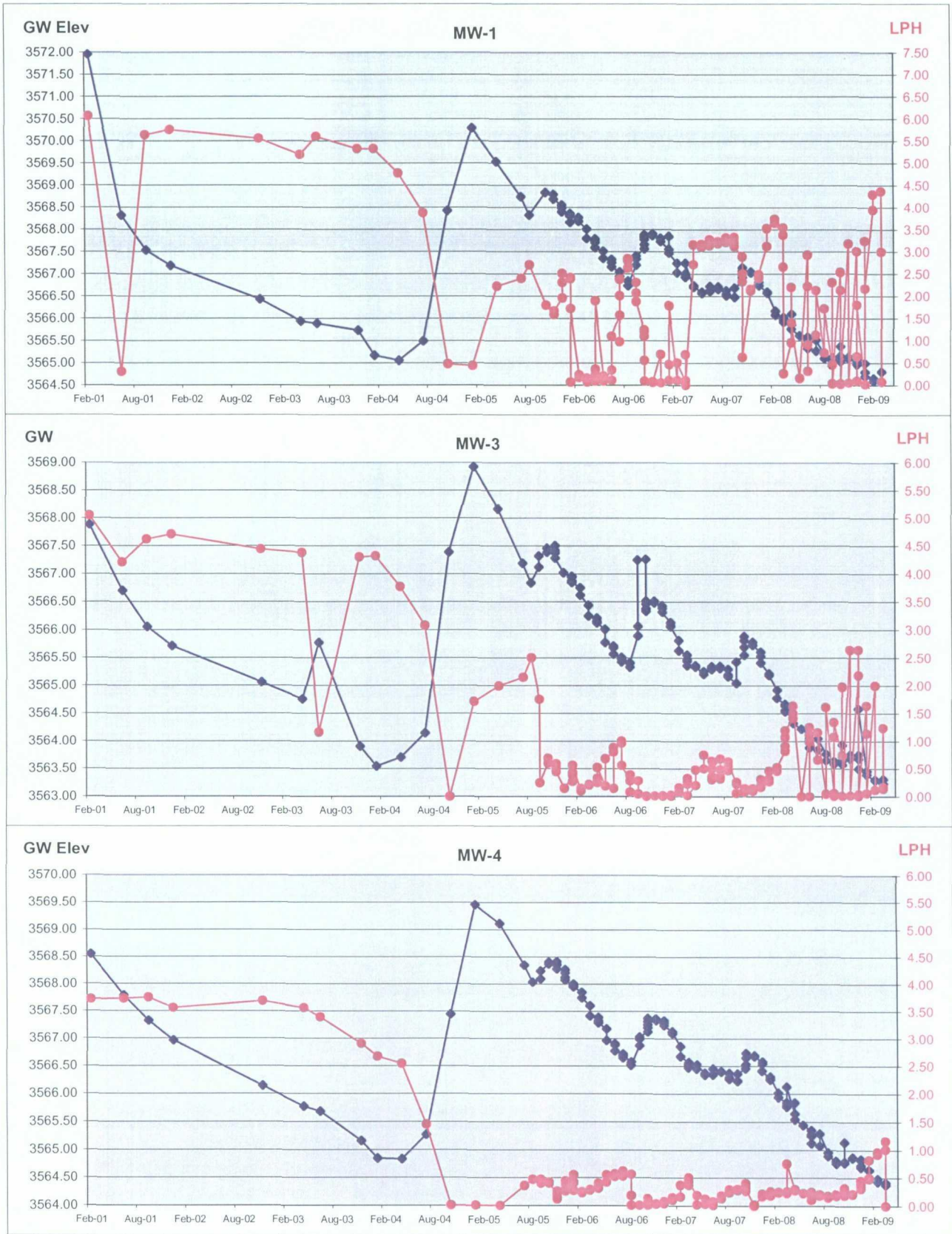
PAH = Polynuclear Aromatic Hydrocarbons (SW846 - 8270C)

Blank fields indicate no data

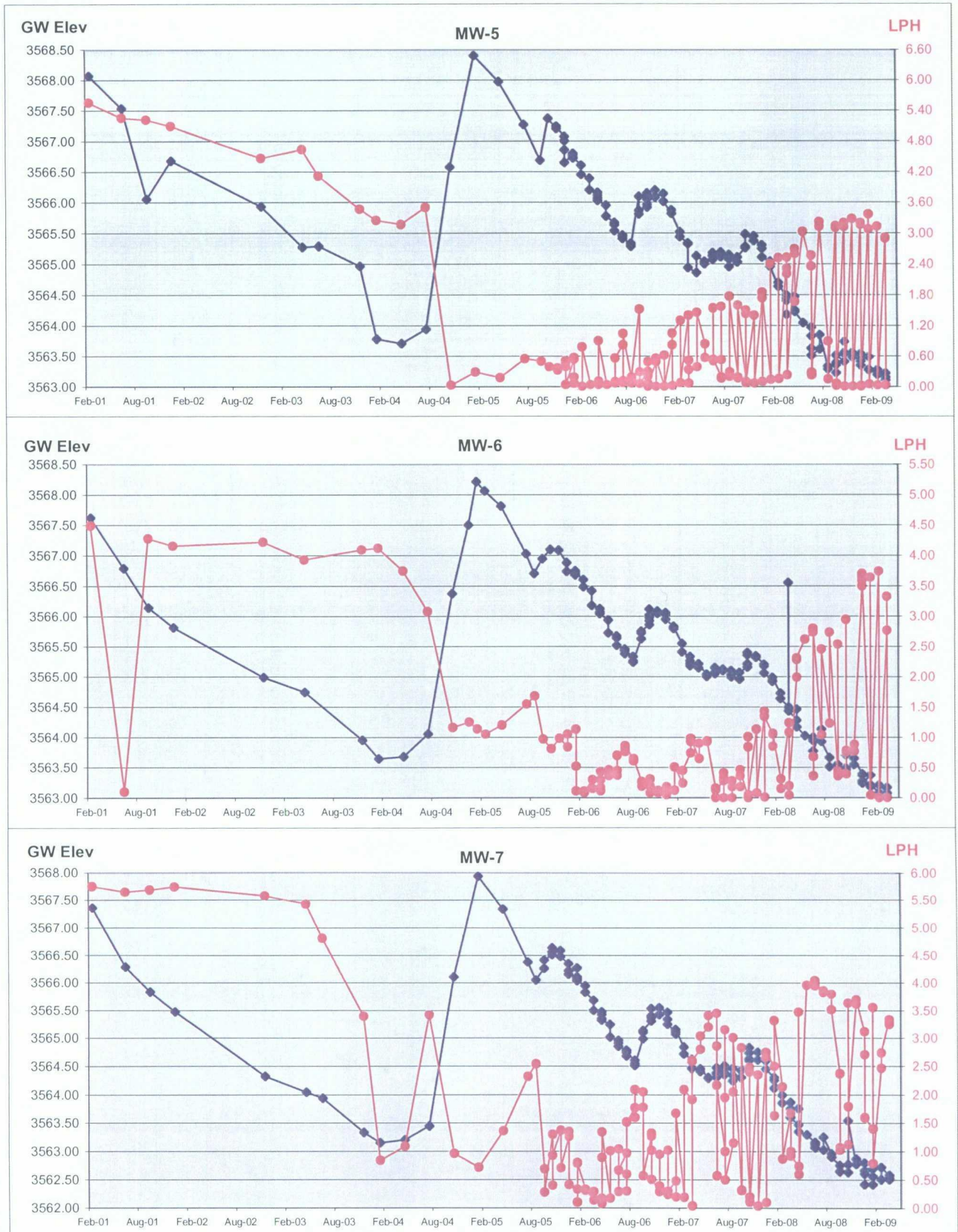
Exceeds standards per 20.6.2.3103 NMAC

APPENDIX A
Hydrographs and Groundwater
Analytical Data Graphs

Hydrograph Charts
ConocoPhillips - Line NM1-1

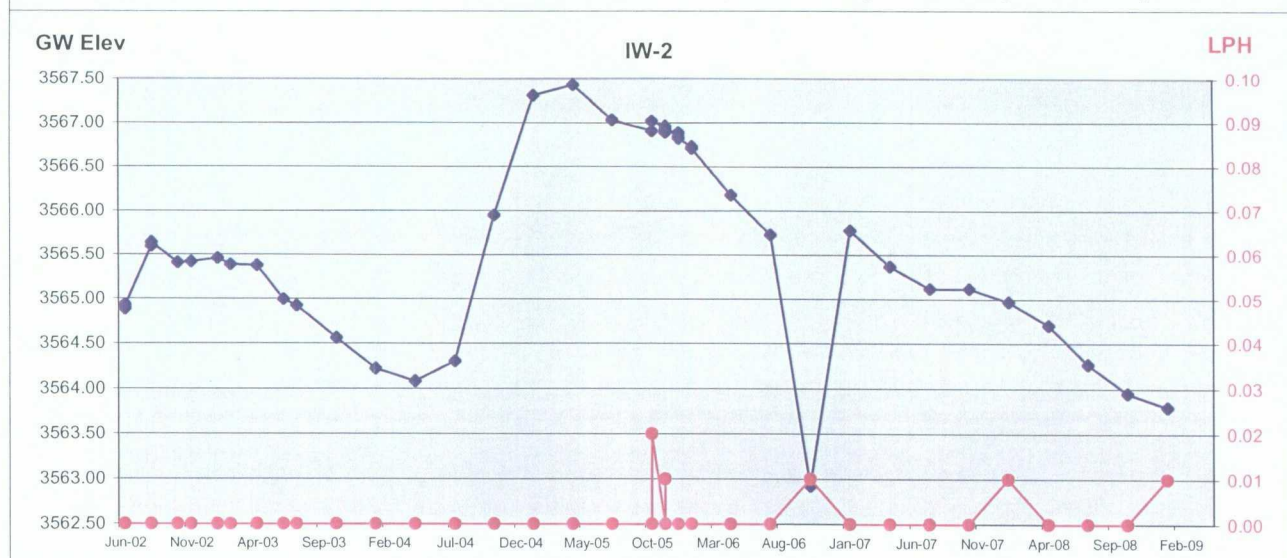
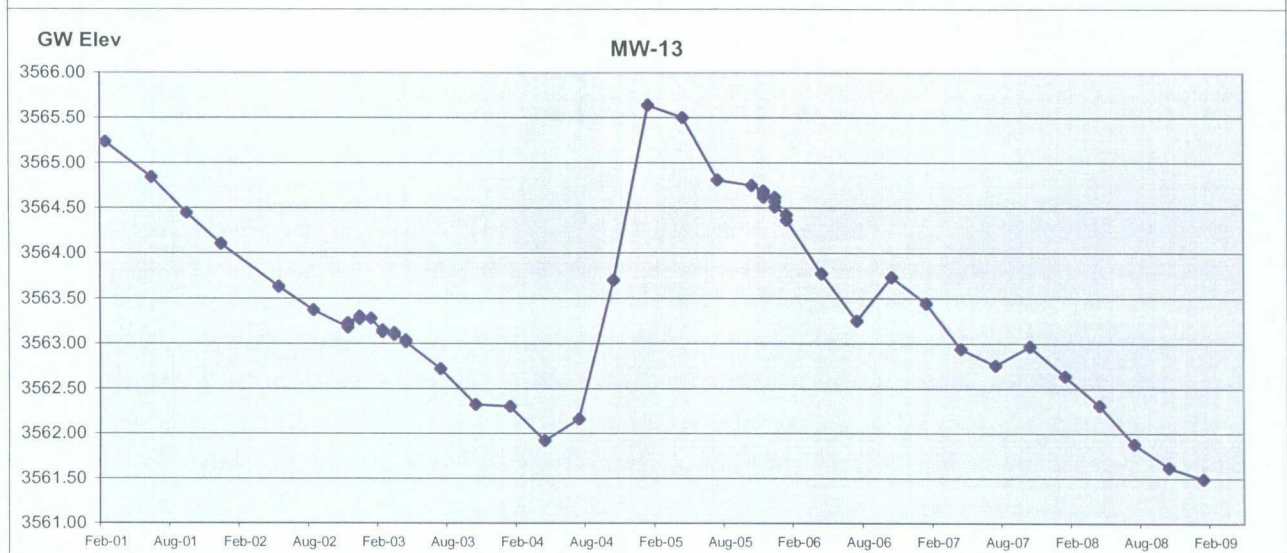
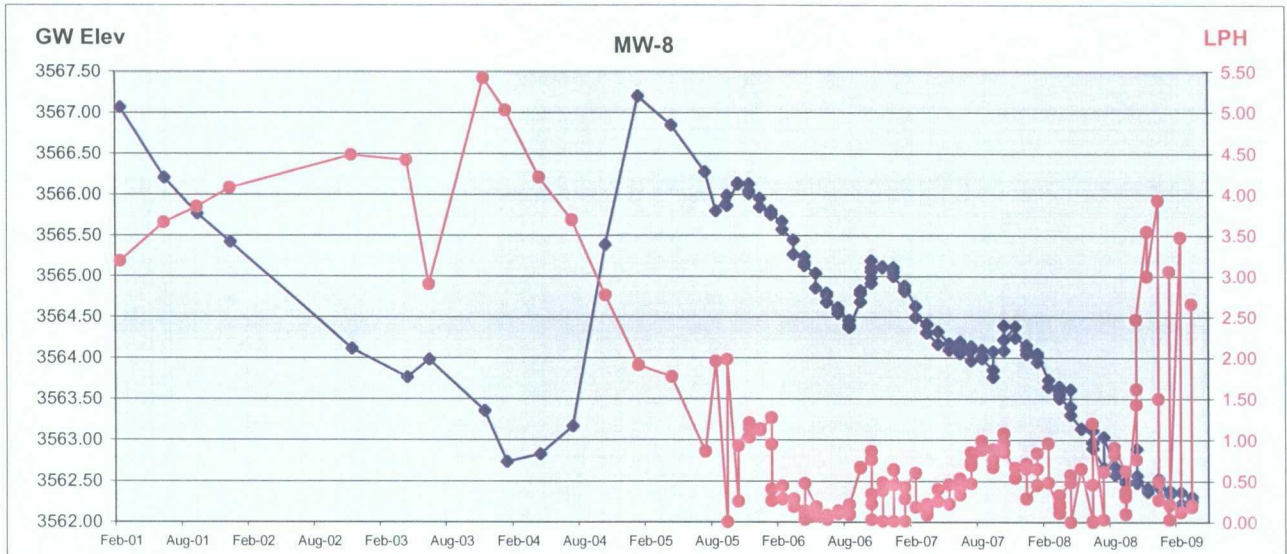


Hydrograph Charts
ConocoPhillips - Line NM1-1

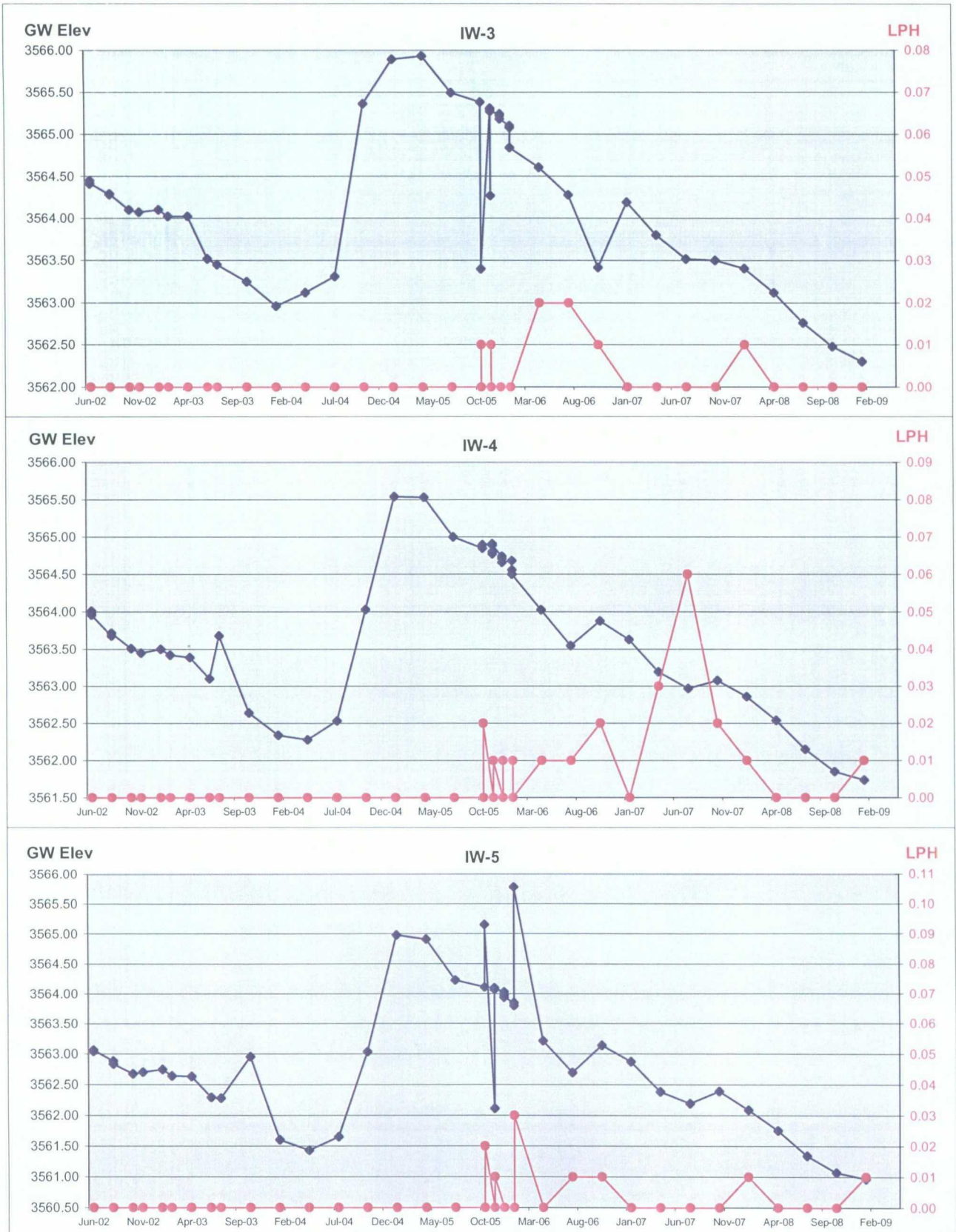


Hydrograph Charts

ConocoPhillips - Line NM1-1

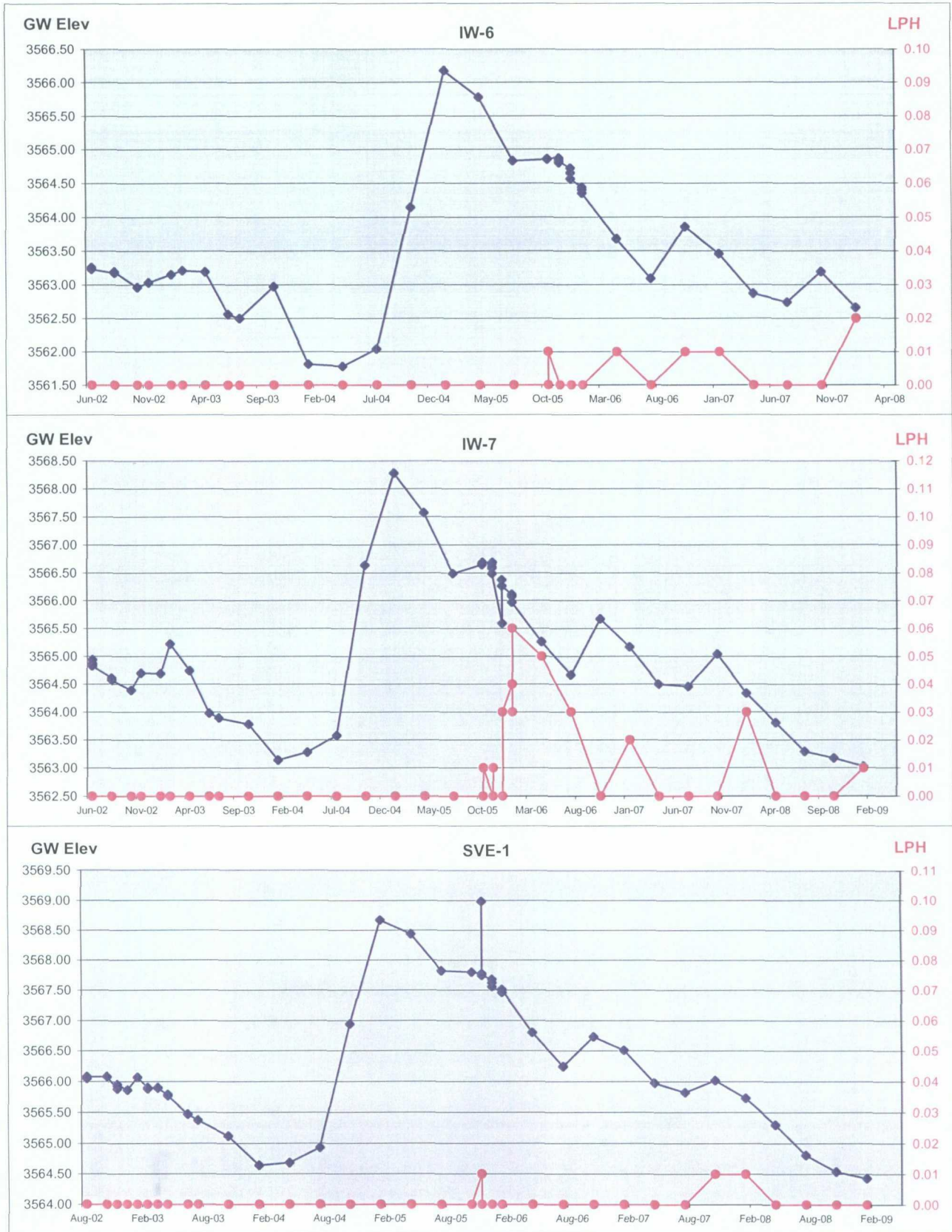


Hydrograph Charts ConocoPhillips - Line NM1-1

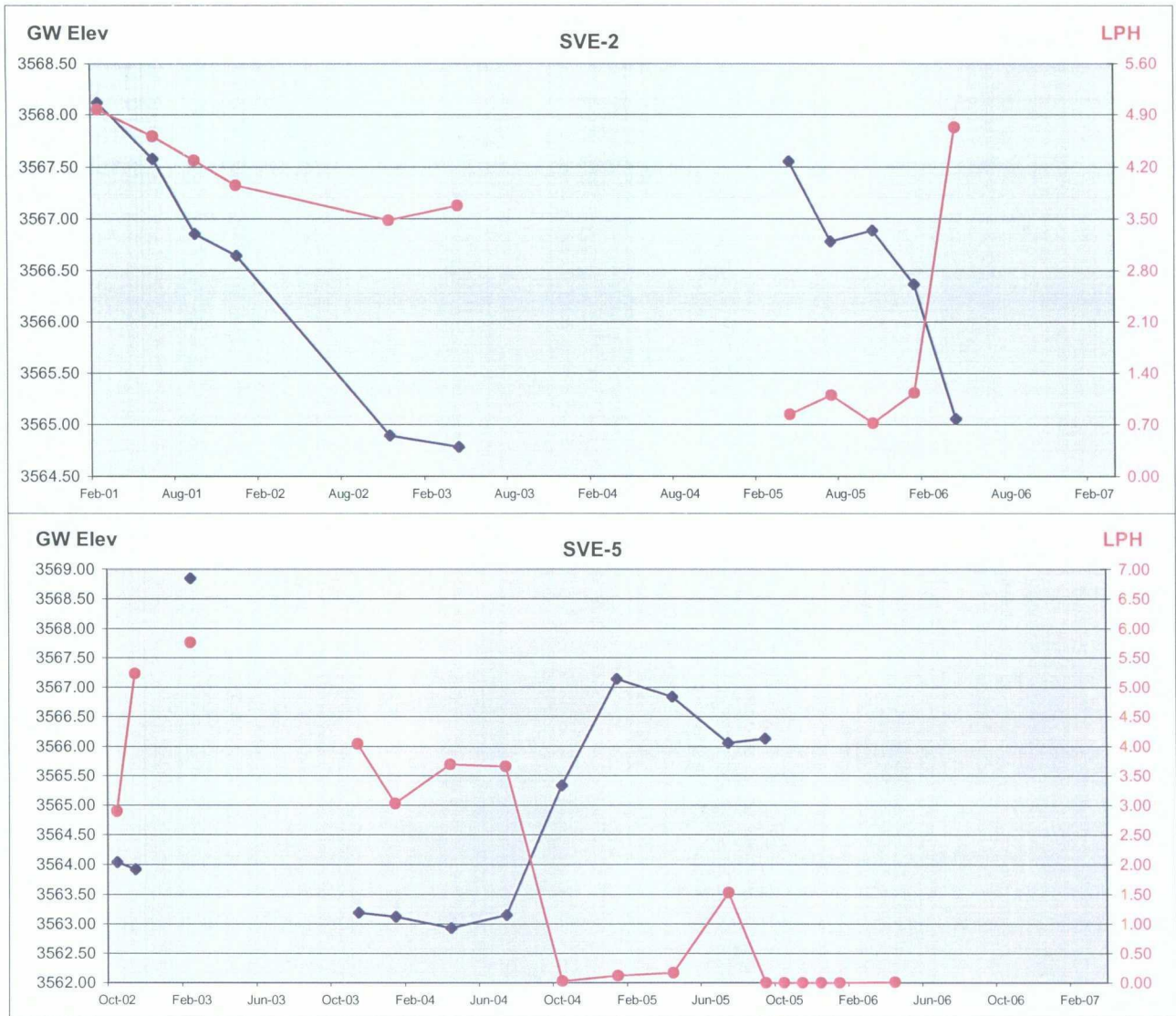


Hydrograph Charts

ConocoPhillips - Line NM1-1



Hydrograph Charts ConocoPhillips - Line NM1-1



Notes:

GW Elev = Groundwater elevation in feet above mean sea level

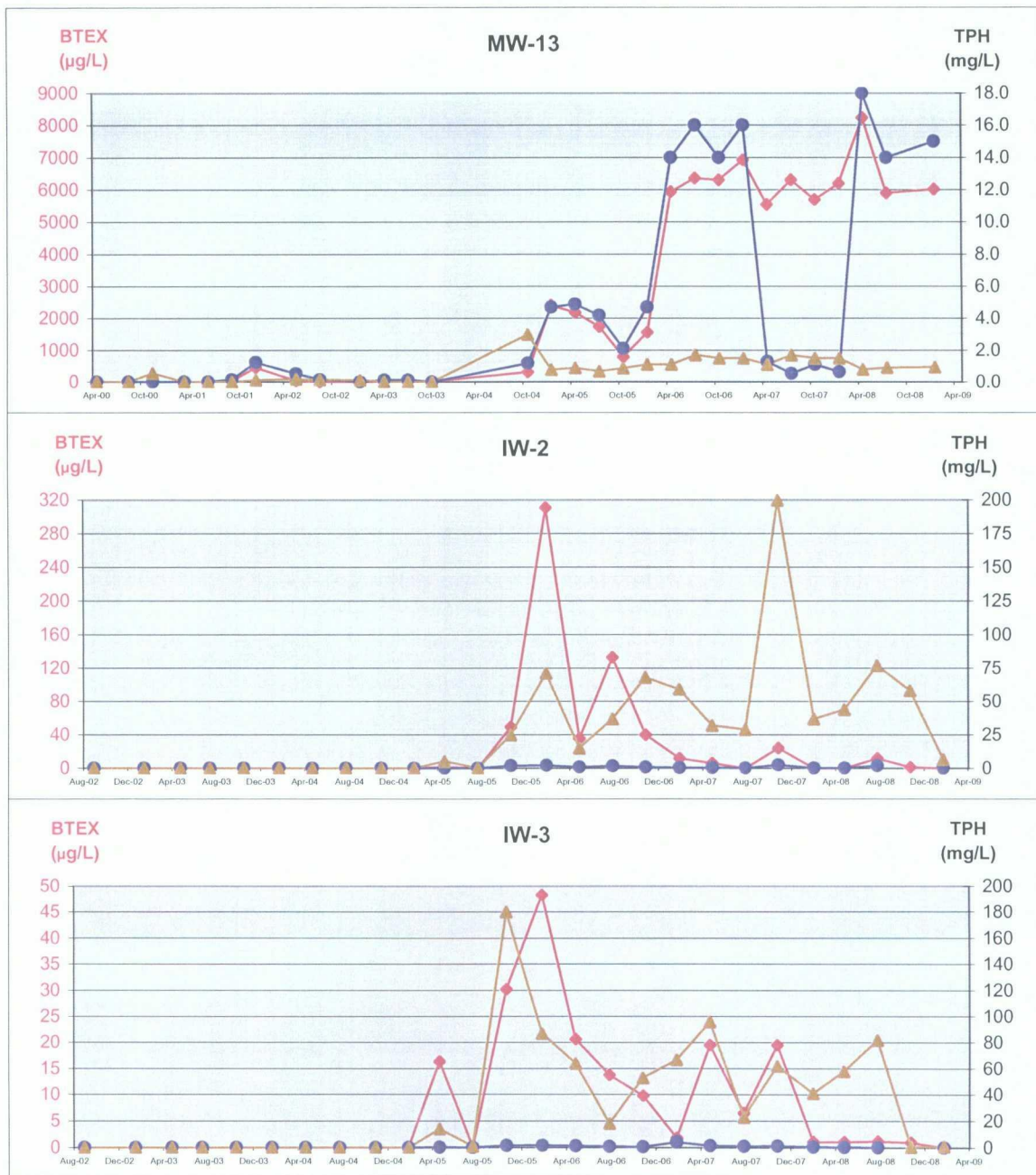
LPH = Liquid phase hydrocarbons thickness in feet

Groundwater Analytical Data Graphs
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico

—◆—
 Total BTEX

—●—
 TPH-GRO

—▲—
 TPH-DRO



Groundwater Analytical Data Graphs

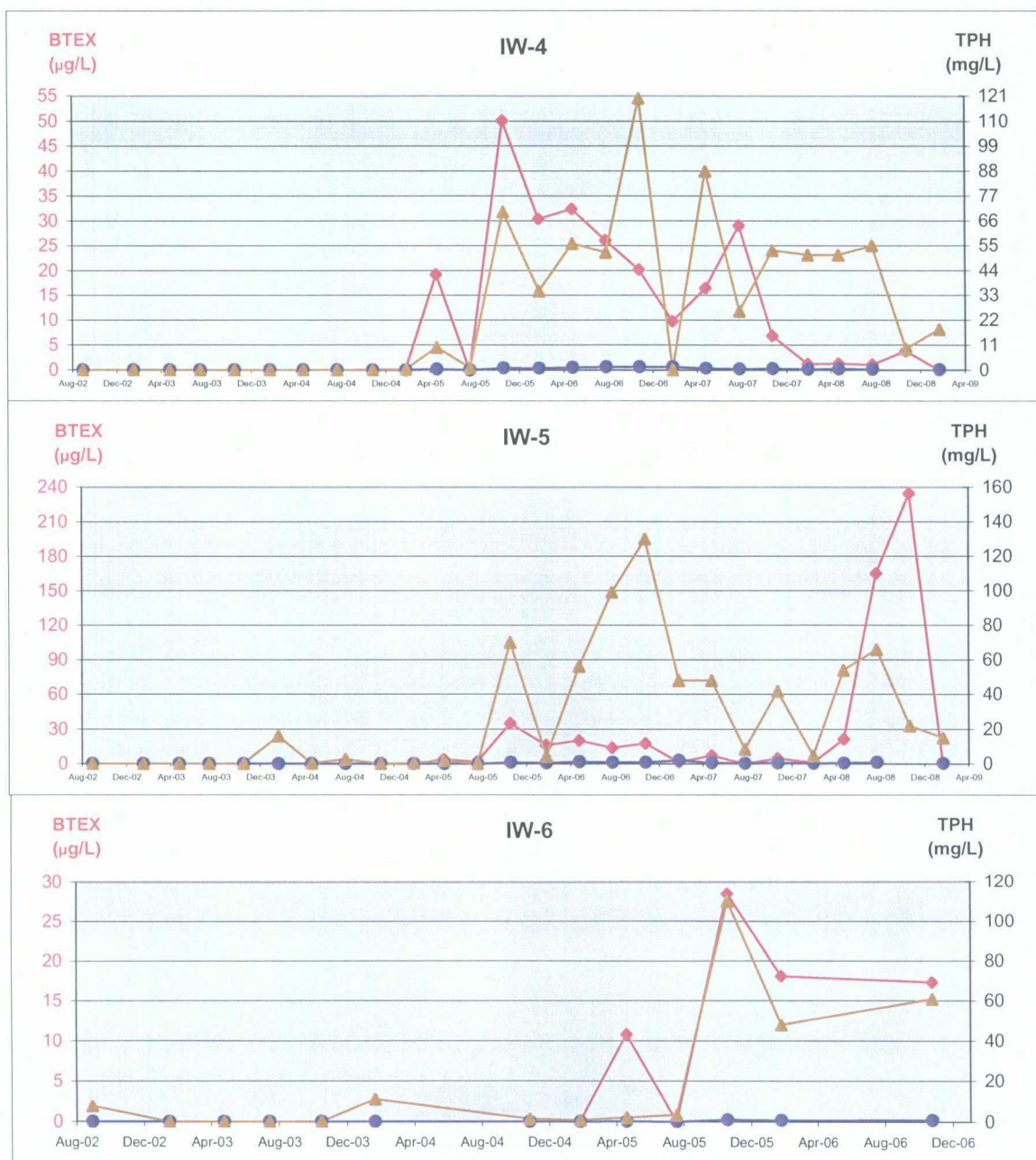
ConocoPhillips - Line NM1-1

Hobbs, New Mexico

—◆—
Total BTEX

—●—
TPH-GRO

—▲—
TPH-DRO

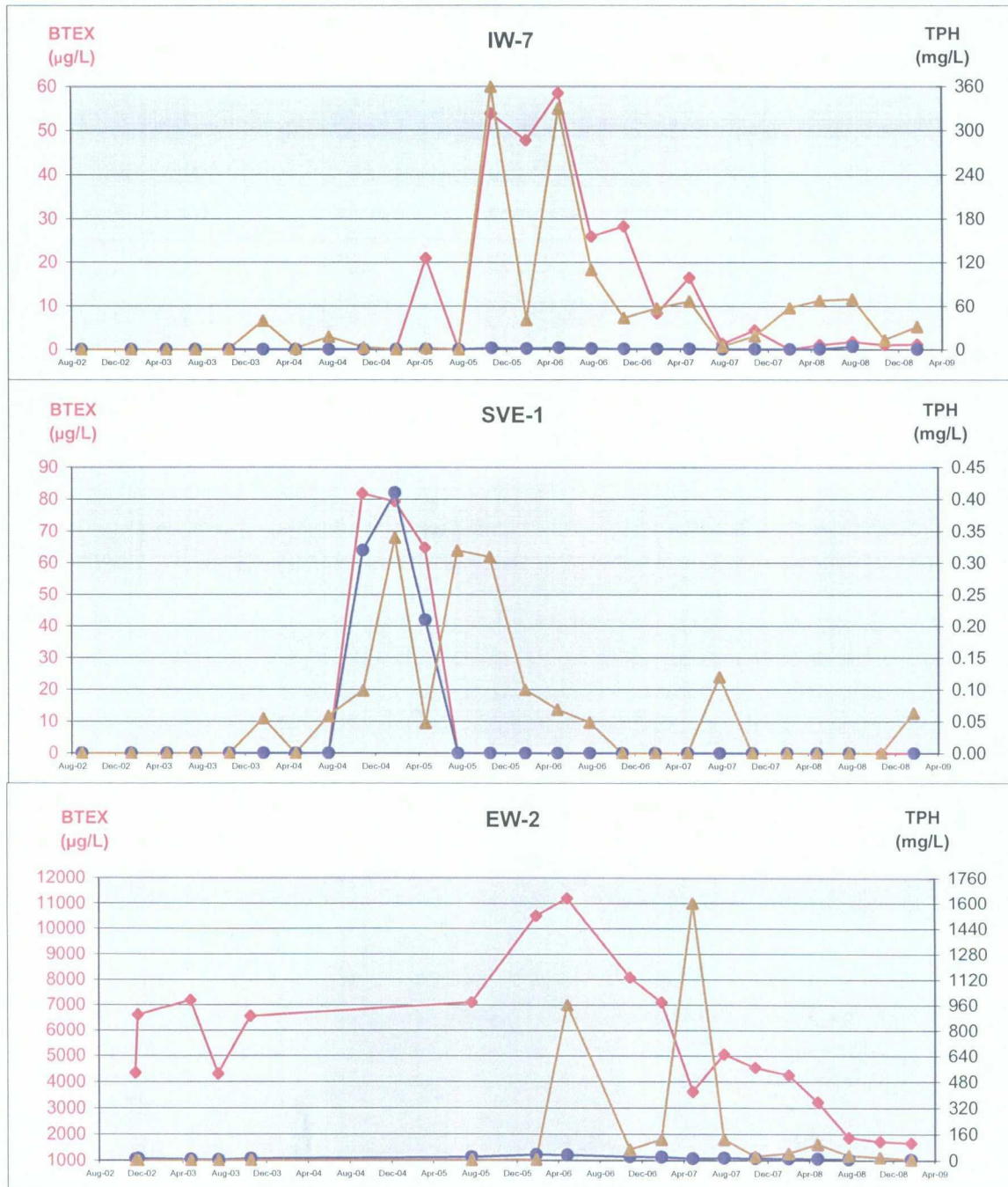


Groundwater Analytical Data Graphs
 ConocoPhillips - Line NM1-1
 Hobbs, New Mexico

—◆—
Total BTEX

—●—
TPH-GRO

—▲—
TPH-DRO



Notes:

BTEX = Total benzene, toluene, ethylbenzene, xylenes

TPH = Total petroleum hydrocarbons

µg/L = Micrograms per liter

mg/L = Milligrams per liter

APPENDIX B
Laboratory Analytical Data



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

08041378

<u>Report To:</u> Tetra Tech Greg Pope 1703 W Industrial Avenue Midland TX 79701- ph: (432) 686-8081 fax:	<u>Project Name:</u> COP Line NM1-1 <u>Site:</u> Hobbs, NM <u>Site Address:</u> <u>PO Number:</u> 4509519834 <u>State:</u> New Mexico <u>State Cert. No.:</u> <u>Date Reported:</u> 5/21/2008
--	--

This Report Contains A Total Of 51 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

5/21/2008

Date

Test results meet all requirements of NELAC, unless specified in the narrative.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Conoco Phillips

Certificate of Analysis Number:
08041378

Report To: Tetra Tech Greg Pope 1703 W Industrial Avenue Midland TX 79701- ph: (432) 686-8081 fax:	Project Name: COP Line NM1-1 Site: Hobbs, NM Site Address: PO Number: 4509519834 State: New Mexico State Cert. No.: Date Reported: 5/21/2008
--	---

Your samples were subcontracted to American Radiation Services, inc. for Uranium analysis. See the enclosed lab number ARS1-08-00772 for results.

For Semivolatile Organics analysis by SW846 Method 8270C, your sample ID's "IW-2", "IW-3", "IW-4", "IW-5", "IW-7", and "EW-2" (SPL ID's: 08041378-02, -03, -04, -05, -06, and -09) were reported with various analytes as nondetect with elevated sample quantitation limits due to the sample matrix; the lowest possible dilution was performed.

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 78101 for the Diesel Range Organics analysis by Method SW8015. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 78050 for the Semivolatile Organics analysis by Method SW8270C. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Bethany A. Agarwal
Senior Project Manager

08041378 Page 1
5/21/2008

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

08041378

Report To: Tetra Tech
Greg Pope
1703 W Industrial Avenue

Midland

TX

79701-

ph: (432) 686-8081

fax: (432) 686-8085

Project Name: COP Line NM1-1

Site: Hobbs, NM

Site Address:

PO Number: 4509519834

State: New Mexico

State Cert. No.:

Date Reported: 5/21/2008

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SVE-1	08041378-01	Water	4/22/2008 8:10:00 AM	4/23/2008 10:00:00 AM	08041378	☐
IW-2	08041378-02	Water	4/22/2008 9:05:00 AM	4/23/2008 10:00:00 AM	08041378	☐
IW-3	08041378-03	Water	4/22/2008 9:45:00 AM	4/23/2008 10:00:00 AM	08041378	☐
IW-4	08041378-04	Water	4/22/2008 10:25:00 AM	4/23/2008 10:00:00 AM	08041378	☐
IW-4	08041378-04	Water	4/22/2008 10:25:00 AM	4/23/2008 10:00:00 AM	280842	☐
IW-5	08041378-05	Water	4/22/2008 11:00:00 AM	4/23/2008 10:00:00 AM	08041378	☐
IW-7	08041378-06	Water	4/22/2008 1:25:00 PM	4/23/2008 10:00:00 AM	08041378	☐
M-13	08041378-07	Water	4/22/2008 2:20:00 PM	4/23/2008 10:00:00 AM	08041378	☐
EW-1	08041378-08	Water	4/22/2008	4/23/2008 10:00:00 AM	08041378	☐
EW-2	08041378-09	Water	4/22/2008 4:15:00 PM	4/23/2008 10:00:00 AM	08041378	☐

5/21/2008

Bethany A. Agarwal
Senior Project Manager

Date

Richard R. Reed
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SVE-1

Collected: 04/22/2008 8:10

SPL Sample ID: 08041378-01

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	ND		0.1	1	04/29/08 20:47	NW	4412196
Surr: n-Pentacosane	64.2	%	20-150	1	04/29/08 20:47	NW	4412196

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	ND		0.1	1	04/25/08 20:57	DMN	4399207
Surr: 1,4-Difluorobenzene	95.6	%	60-155	1	04/25/08 20:57	DMN	4399207
Surr: 4-Bromofluorobenzene	101	%	50-158	1	04/25/08 20:57	DMN	4399207

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	86.8		25	50	04/28/08 20:57	A_E	4406381
Fluoride	1.21		0.5	1	04/29/08 1:04	A_E	4406396

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:15	CMC	4413135

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 14:30	EG	4410705
Boron	0.254		0.1	1	05/01/08 14:30	EG	4410705
Iron	ND		0.02	1	05/01/08 14:30	EG	4410705

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SVE-1

Collected: 04/22/2008 8:10

SPL Sample ID: 08041378-01

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.00945		0.005	1	05/02/08 17:04	AL_H	4415056
Barium	0.0955		0.005	1	05/02/08 17:04	AL_H	4415056
Cadmium	ND		0.005	1	05/02/08 17:04	AL_H	4415056
Chromium	ND		0.005	1	05/02/08 17:04	AL_H	4415056
Cobalt	ND		0.005	1	05/02/08 17:04	AL_H	4415056
Copper	ND		0.005	1	05/02/08 17:04	AL_H	4415056
Lead	ND		0.005	1	05/02/08 17:04	AL_H	4415056
Manganese	ND		0.005	1	05/02/08 17:04	AL_H	4415056
Molybdenum	ND		0.01	1	05/02/08 18:31	AL_H	4415119
Nickel	ND		0.005	1	05/02/08 17:04	AL_H	4415056
Selenium	ND		0.005	1	05/02/08 18:31	AL_H	4415119
Silver	ND		0.005	1	05/02/08 18:31	AL_H	4415119
Zinc	ND		0.01	1	05/02/08 18:31	AL_H	4415119

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	04/25/08 20:57	DMN	4399138
Toluene	ND		1	1	04/25/08 20:57	DMN	4399138
Ethylbenzene	ND		1	1	04/25/08 20:57	DMN	4399138
m,p-Xylene	ND		1	1	04/25/08 20:57	DMN	4399138
o-Xylene	ND		1	1	04/25/08 20:57	DMN	4399138
Xylenes, Total	ND		1	1	04/25/08 20:57	DMN	4399138
Surr: 1,4-Difluorobenzene	93.5	%	39-163	1	04/25/08 20:57	DMN	4399138
Surr: 4-Bromofluorobenzene	101	%	57-157	1	04/25/08 20:57	DMN	4399138

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SVE-1

Collected: 04/22/2008 8:10

SPL Sample ID: 08041378-01

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	ND		5	1	04/28/08 17:47	GY	4407296
2-Methylnaphthalene	ND		5	1	04/28/08 17:47	GY	4407296
Acenaphthene	ND		5	1	04/28/08 17:47	GY	4407296
Acenaphthylene	ND		5	1	04/28/08 17:47	GY	4407296
Anthracene	ND		5	1	04/28/08 17:47	GY	4407296
Benz(a)anthracene	ND		5	1	04/28/08 17:47	GY	4407296
Benzo(a)pyrene	ND		5	1	04/28/08 17:47	GY	4407296
Benzo(b)fluoranthene	ND		5	1	04/28/08 17:47	GY	4407296
Benzo(g,h,i)perylene	ND		5	1	04/28/08 17:47	GY	4407296
Benzo(k)fluoranthene	ND		5	1	04/28/08 17:47	GY	4407296
Chrysene	ND		5	1	04/28/08 17:47	GY	4407296
Dibenz(a,h)anthracene	ND		5	1	04/28/08 17:47	GY	4407296
Dibenzofuran	ND		5	1	04/28/08 17:47	GY	4407296
Fluoranthene	ND		5	1	04/28/08 17:47	GY	4407296
Fluorene	ND		5	1	04/28/08 17:47	GY	4407296
Indeno(1,2,3-cd)pyrene	ND		5	1	04/28/08 17:47	GY	4407296
Naphthalene	ND		5	1	04/28/08 17:47	GY	4407296
Phenanthrene	ND		5	1	04/28/08 17:47	GY	4407296
Pyrene	ND		5	1	04/28/08 17:47	GY	4407296
Surr: 2-Fluorobiphenyl	84.0		% 23-116	1	04/28/08 17:47	GY	4407296
Surr: Nitrobenzene-d5	78.0		% 21-114	1	04/28/08 17:47	GY	4407296
Surr: Terphenyl-d14	34.0		% 22-141	1	04/28/08 17:47	GY	4407296

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS				MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue,Filterable)	680		20	2	04/23/08 16:00	KRD	4395500

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-2

Collected: 04/22/2008 9:05

SPL Sample ID: 08041378-02

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	44		5	50	05/02/08 1:55	NW	4412202
Surr: n-Pentacosane	D	*	% 20-150	50	05/02/08 1:55	NW	4412202

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.25		0.1	1	04/29/08 13:44	DMN	4407094
Surr: 1,4-Difluorobenzene	100		% 60-155	1	04/29/08 13:44	DMN	4407094
Surr: 4-Bromofluorobenzene	106		% 50-158	1	04/29/08 13:44	DMN	4407094

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	83.3		5	10	04/28/08 21:14	A_E	4406382
Fluoride	1		0.5	1	04/29/08 1:37	A_E	4406397

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:22	CMC	4413138

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 14:34	EG	4410706
Boron	0.185		0.1	1	05/01/08 14:34	EG	4410706
Iron	0.279		0.02	1	05/01/08 14:34	EG	4410706

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-2

Collected: 04/22/2008 9:05

SPL Sample ID: 08041378-02

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.0127		0.005	1	05/02/08 17:11	AL_H	4415057
Barium	0.137		0.005	1	05/02/08 17:11	AL_H	4415057
Cadmium	ND		0.005	1	05/02/08 17:11	AL_H	4415057
Chromium	ND		0.005	1	05/02/08 17:11	AL_H	4415057
Cobalt	ND		0.005	1	05/02/08 17:11	AL_H	4415057
Copper	ND		0.005	1	05/02/08 17:11	AL_H	4415057
Lead	ND		0.005	1	05/02/08 17:11	AL_H	4415057
Manganese	0.00606		0.005	1	05/02/08 17:11	AL_H	4415057
Molybdenum	0.0199		0.01	1	05/02/08 18:36	AL_H	4415120
Nickel	0.013		0.005	1	05/02/08 17:11	AL_H	4415057
Selenium	ND		0.005	1	05/02/08 18:36	AL_H	4415120
Silver	ND		0.005	1	05/02/08 18:36	AL_H	4415120
Zinc	ND		0.01	1	05/02/08 18:36	AL_H	4415120

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	04/29/08 13:44	DMN	4406445
Toluene	ND		1	1	04/29/08 13:44	DMN	4406445
Ethylbenzene	ND		1	1	04/29/08 13:44	DMN	4406445
m,p-Xylene	ND		1	1	04/29/08 13:44	DMN	4406445
o-Xylene	ND		1	1	04/29/08 13:44	DMN	4406445
Xylenes, Total	ND		1	1	04/29/08 13:44	DMN	4406445
Surr: 1,4-Difluorobenzene	94.6	%	39-163	1	04/29/08 13:44	DMN	4406445
Surr: 4-Bromofluorobenzene	97.8	%	57-157	1	04/29/08 13:44	DMN	4406445

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-2

Collected: 04/22/2008 9:05

SPL Sample ID: 08041378-02

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	ND		20	4	04/30/08 20:15	GY	4409418
2-Methylnaphthalene	ND		20	4	04/30/08 20:15	GY	4409418
Acenaphthene	ND		20	4	04/30/08 20:15	GY	4409418
Acenaphthylene	ND		20	4	04/30/08 20:15	GY	4409418
Anthracene	ND		20	4	04/30/08 20:15	GY	4409418
Benz(a)anthracene	ND		20	4	04/30/08 20:15	GY	4409418
Benzo(a)pyrene	ND		20	4	04/30/08 20:15	GY	4409418
Benzo(b)fluoranthene	ND		20	4	04/30/08 20:15	GY	4409418
Benzo(g,h,i)perylene	ND		20	4	04/30/08 20:15	GY	4409418
Benzo(k)fluoranthene	ND		20	4	04/30/08 20:15	GY	4409418
Chrysene	ND		20	4	04/30/08 20:15	GY	4409418
Dibenz(a,h)anthracene	ND		20	4	04/30/08 20:15	GY	4409418
Dibenzofuran	ND		20	4	04/30/08 20:15	GY	4409418
Fluoranthene	ND		20	4	04/30/08 20:15	GY	4409418
Fluorene	ND		20	4	04/30/08 20:15	GY	4409418
Indeno(1,2,3-cd)pyrene	ND		20	4	04/30/08 20:15	GY	4409418
Naphthalene	ND		20	4	04/30/08 20:15	GY	4409418
Phenanthrene	ND		20	4	04/30/08 20:15	GY	4409418
Pyrene	ND		20	4	04/30/08 20:15	GY	4409418
Surr: 2-Fluorobiphenyl	80.0		% 23-116	4	04/30/08 20:15	GY	4409418
Surr: Nitrobenzene-d5	82.0		% 21-114	4	04/30/08 20:15	GY	4409418
Surr: Terphenyl-d14	40.0		% 22-141	4	04/30/08 20:15	GY	4409418

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS				MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	558		10	1	04/23/08 16:00	KRD	4395502

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-3

Collected: 04/22/2008 9:45

SPL Sample ID: 08041378-03

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	58		5	50	05/02/08 2:46	NW	4412203
Surr: n-Pentacosane	D	*	% 20-150	50	05/02/08 2:46	NW	4412203

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.46		0.1	1	04/29/08 14:12	DMN	4407095
Surr: 1,4-Difluorobenzene	105		% 60-155	1	04/29/08 14:12	DMN	4407095
Surr: 4-Bromofluorobenzene	112		% 50-158	1	04/29/08 14:12	DMN	4407095

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	97.2		5	10	04/28/08 22:03	A_E	4406385
Fluoride	0.837		0.5	1	04/29/08 2:59	A_E	4406402

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:24	CMC	4413139

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 14:39	EG	4410707
Boron	0.188		0.1	1	05/01/08 14:39	EG	4410707
Iron	0.414		0.02	1	05/01/08 14:39	EG	4410707

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-3

Collected: 04/22/2008 9:45

SPL Sample ID: 08041378-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.0119		0.005	1	05/02/08 17:17	AL_H	4415058
Barium	0.292		0.005	1	05/02/08 17:17	AL_H	4415058
Cadmium	ND		0.005	1	05/02/08 17:17	AL_H	4415058
Chromium	ND		0.005	1	05/02/08 17:17	AL_H	4415058
Cobalt	ND		0.005	1	05/02/08 17:17	AL_H	4415058
Copper	0.00644		0.005	1	05/02/08 17:17	AL_H	4415058
Lead	ND		0.005	1	05/02/08 17:17	AL_H	4415058
Manganese	0.0336		0.005	1	05/02/08 17:17	AL_H	4415058
Molybdenum	0.0109		0.01	1	05/02/08 18:41	AL_H	4415121
Nickel	0.00647		0.005	1	05/02/08 17:17	AL_H	4415058
Selenium	ND		0.005	1	05/02/08 18:41	AL_H	4415121
Silver	ND		0.005	1	05/02/08 18:41	AL_H	4415121
Zinc	ND		0.01	1	05/02/08 18:41	AL_H	4415121

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	04/29/08 14:12	DMN	4406462
Toluene	ND		1	1	04/29/08 14:12	DMN	4406462
Ethylbenzene	ND		1	1	04/29/08 14:12	DMN	4406462
m,p-Xylene	1.1		1	1	04/29/08 14:12	DMN	4406462
o-Xylene	ND		1	1	04/29/08 14:12	DMN	4406462
Xylenes, Total	1.1		1	1	04/29/08 14:12	DMN	4406462
Surr: 1,4-Difluorobenzene	100	%	39-163	1	04/29/08 14:12	DMN	4406462
Surr: 4-Bromofluorobenzene	99.4	%	57-157	1	04/29/08 14:12	DMN	4406462

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-3

Collected: 04/22/2008 9:45

SPL Sample ID: 08041378-03

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	ND		20	4	04/30/08 20:45	GY	4409419
2-Methylnaphthalene	ND		20	4	04/30/08 20:45	GY	4409419
Acenaphthene	ND		20	4	04/30/08 20:45	GY	4409419
Acenaphthylene	ND		20	4	04/30/08 20:45	GY	4409419
Anthracene	ND		20	4	04/30/08 20:45	GY	4409419
Benz(a)anthracene	ND		20	4	04/30/08 20:45	GY	4409419
Benzo(a)pyrene	ND		20	4	04/30/08 20:45	GY	4409419
Benzo(b)fluoranthene	ND		20	4	04/30/08 20:45	GY	4409419
Benzo(g,h,i)perylene	ND		20	4	04/30/08 20:45	GY	4409419
Benzo(k)fluoranthene	ND		20	4	04/30/08 20:45	GY	4409419
Chrysene	ND		20	4	04/30/08 20:45	GY	4409419
Dibenz(a,h)anthracene	ND		20	4	04/30/08 20:45	GY	4409419
Dibenzofuran	ND		20	4	04/30/08 20:45	GY	4409419
Fluoranthene	ND		20	4	04/30/08 20:45	GY	4409419
Fluorene	ND		20	4	04/30/08 20:45	GY	4409419
Indeno(1,2,3-cd)pyrene	ND		20	4	04/30/08 20:45	GY	4409419
Naphthalene	ND		20	4	04/30/08 20:45	GY	4409419
Phenanthrene	ND		20	4	04/30/08 20:45	GY	4409419
Pyrene	ND		20	4	04/30/08 20:45	GY	4409419
Surr: 2-Fluorobiphenyl	80.0		% 23-116	4	04/30/08 20:45	GY	4409419
Surr: Nitrobenzene-d5	90.0		% 21-114	4	04/30/08 20:45	GY	4409419
Surr: Terphenyl-d14	40.0		% 22-141	4	04/30/08 20:45	GY	4409419

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS			MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	645	10	1	04/23/08 16:00	KRD	4395503

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-4

Collected: 04/22/2008 10:25

SPL Sample ID: 08041378-04

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	51		5	50	05/02/08 3:37	NW	4412205
Surr: n-Pentacosane	D	*	% 20-150	50	05/02/08 3:37	NW	4412205

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.51		0.1	1	04/29/08 14:39	DMN	4407096
Surr: 1,4-Difluorobenzene	106		% 60-155	1	04/29/08 14:39	DMN	4407096
Surr: 4-Bromofluorobenzene	112		% 50-158	1	04/29/08 14:39	DMN	4407096

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	54.5		5	10	04/28/08 22:20	A_E	4406386
Fluoride	1.25		0.5	1	04/29/08 3:15	A_E	4406403

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:28	CMC	4413140

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 14:43	EG	4410708
Boron	0.147		0.1	1	05/01/08 14:43	EG	4410708
Iron	0.363		0.02	1	05/01/08 14:43	EG	4410708

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-4

Collected: 04/22/2008 10:25

SPL Sample ID: 08041378-04

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.0115		0.005	1	05/02/08 17:24	AL_H	4415059
Barium	0.592		0.005	1	05/02/08 17:24	AL_H	4415059
Cadmium	ND		0.005	1	05/02/08 17:24	AL_H	4415059
Chromium	ND		0.005	1	05/02/08 17:24	AL_H	4415059
Cobalt	ND		0.005	1	05/02/08 17:24	AL_H	4415059
Copper	ND		0.005	1	05/02/08 17:24	AL_H	4415059
Lead	ND		0.005	1	05/02/08 17:24	AL_H	4415059
Manganese	0.102		0.005	1	05/02/08 17:24	AL_H	4415059
Molybdenum	ND		0.01	1	05/02/08 18:46	AL_H	4415122
Nickel	ND		0.005	1	05/02/08 17:24	AL_H	4415059
Selenium	ND		0.005	1	05/02/08 18:46	AL_H	4415122
Silver	ND		0.005	1	05/02/08 18:46	AL_H	4415122
Zinc	ND		0.01	1	05/02/08 18:46	AL_H	4415122

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	04/29/08 14:39	DMN	4406446
Toluene	ND		1	1	04/29/08 14:39	DMN	4406446
Ethylbenzene	ND		1	1	04/29/08 14:39	DMN	4406446
m,p-Xylene	1.3		1	1	04/29/08 14:39	DMN	4406446
o-Xylene	ND		1	1	04/29/08 14:39	DMN	4406446
Xylenes, Total	1.3		1	1	04/29/08 14:39	DMN	4406446
Surr: 1,4-Difluorobenzene	91.5	%	39-163	1	04/29/08 14:39	DMN	4406446
Surr: 4-Bromofluorobenzene	101	%	57-157	1	04/29/08 14:39	DMN	4406446

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-4

Collected: 04/22/2008 10:25

SPL Sample ID: 08041378-04

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	ND		20	4	04/30/08 21:15	GY	4409420
2-Methylnaphthalene	ND		20	4	04/30/08 21:15	GY	4409420
Acenaphthene	ND		20	4	04/30/08 21:15	GY	4409420
Acenaphthylene	ND		20	4	04/30/08 21:15	GY	4409420
Anthracene	ND		20	4	04/30/08 21:15	GY	4409420
Benz(a)anthracene	ND		20	4	04/30/08 21:15	GY	4409420
Benzo(a)pyrene	ND		20	4	04/30/08 21:15	GY	4409420
Benzo(b)fluoranthene	ND		20	4	04/30/08 21:15	GY	4409420
Benzo(g,h,i)perylene	ND		20	4	04/30/08 21:15	GY	4409420
Benzo(k)fluoranthene	ND		20	4	04/30/08 21:15	GY	4409420
Chrysene	ND		20	4	04/30/08 21:15	GY	4409420
Dibenz(a,h)anthracene	ND		20	4	04/30/08 21:15	GY	4409420
Dibenzofuran	ND		20	4	04/30/08 21:15	GY	4409420
Fluoranthene	ND		20	4	04/30/08 21:15	GY	4409420
Fluorene	ND		20	4	04/30/08 21:15	GY	4409420
Indeno(1,2,3-cd)pyrene	ND		20	4	04/30/08 21:15	GY	4409420
Naphthalene	ND		20	4	04/30/08 21:15	GY	4409420
Phenanthrene	ND		20	4	04/30/08 21:15	GY	4409420
Pyrene	ND		20	4	04/30/08 21:15	GY	4409420
Surr: 2-Fluorobiphenyl	56.0	%	23-116	4	04/30/08 21:15	GY	4409420
Surr: Nitrobenzene-d5	76.0	%	21-114	4	04/30/08 21:15	GY	4409420
Surr: Terphenyl-d14	30.0	%	22-141	4	04/30/08 21:15	GY	4409420

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS			MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	492	10	1	04/23/08 16:00	KRD	4395504

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-5

Collected: 04/22/2008 11:00

SPL Sample ID: 08041378-05

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	54		5	50	05/02/08 4:29	NW	4412207
Surr: n-Pentacosane	D	*	% 20-150	50	05/02/08 4:29	NW	4412207

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.51		0.1	1	04/29/08 18:22	DMN	4407043
Surr: 1,4-Difluorobenzene	106		% 60-155	1	04/29/08 18:22	DMN	4407043
Surr: 4-Bromofluorobenzene	115		% 50-158	1	04/29/08 18:22	DMN	4407043

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	166		5	10	04/28/08 22:36	A_E	4406387
Fluoride	0.579		0.5	1	04/29/08 3:32	A_E	4406404

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:30	CMC	4413141

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 14:47	EG	4410709
Boron	0.249		0.1	1	05/01/08 14:47	EG	4410709
Iron	1.73		0.02	1	05/01/08 14:47	EG	4410709

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-5

Collected: 04/22/2008 11:00

SPL Sample ID: 08041378-05

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.015		0.005	1	05/02/08 17:30	AL_H	4415060
Barium	0.338		0.005	1	05/02/08 17:30	AL_H	4415060
Cadmium	ND		0.005	1	05/02/08 17:30	AL_H	4415060
Chromium	ND		0.005	1	05/02/08 17:30	AL_H	4415060
Cobalt	ND		0.005	1	05/02/08 17:30	AL_H	4415060
Copper	ND		0.005	1	05/02/08 17:30	AL_H	4415060
Lead	ND		0.005	1	05/02/08 17:30	AL_H	4415060
Manganese	0.112		0.005	1	05/02/08 17:30	AL_H	4415060
Molybdenum	ND		0.01	1	05/02/08 18:51	AL_H	4415123
Nickel	0.0147		0.005	1	05/02/08 17:30	AL_H	4415060
Selenium	ND		0.005	1	05/02/08 18:51	AL_H	4415123
Silver	ND		0.005	1	05/02/08 18:51	AL_H	4415123
Zinc	ND		0.01	1	05/02/08 18:51	AL_H	4415123

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	20		1	1	04/29/08 18:22	DMN	4406451
Toluene	ND		1	1	04/29/08 18:22	DMN	4406451
Ethylbenzene	ND		1	1	04/29/08 18:22	DMN	4406451
m,p-Xylene	1.5		1	1	04/29/08 18:22	DMN	4406451
o-Xylene	ND		1	1	04/29/08 18:22	DMN	4406451
Xylenes, Total	1.5		1	1	04/29/08 18:22	DMN	4406451
Surr: 1,4-Difluorobenzene	98.0	%	39-163	1	04/29/08 18:22	DMN	4406451
Surr: 4-Bromofluorobenzene	102	%	57-157	1	04/29/08 18:22	DMN	4406451

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-5

Collected: 04/22/2008 11:00

SPL Sample ID: 08041378-05

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	ND		20	4	04/30/08 21:45	GY	4409421
2-Methylnaphthalene	ND		20	4	04/30/08 21:45	GY	4409421
Acenaphthene	ND		20	4	04/30/08 21:45	GY	4409421
Acenaphthylene	ND		20	4	04/30/08 21:45	GY	4409421
Anthracene	ND		20	4	04/30/08 21:45	GY	4409421
Benz(a)anthracene	ND		20	4	04/30/08 21:45	GY	4409421
Benzo(a)pyrene	ND		20	4	04/30/08 21:45	GY	4409421
Benzo(b)fluoranthene	ND		20	4	04/30/08 21:45	GY	4409421
Benzo(g,h,i)perylene	ND		20	4	04/30/08 21:45	GY	4409421
Benzo(k)fluoranthene	ND		20	4	04/30/08 21:45	GY	4409421
Chrysene	ND		20	4	04/30/08 21:45	GY	4409421
Dibenz(a,h)anthracene	ND		20	4	04/30/08 21:45	GY	4409421
Dibenzofuran	ND		20	4	04/30/08 21:45	GY	4409421
Fluoranthene	ND		20	4	04/30/08 21:45	GY	4409421
Fluorene	ND		20	4	04/30/08 21:45	GY	4409421
Indeno(1,2,3-cd)pyrene	ND		20	4	04/30/08 21:45	GY	4409421
Naphthalene	ND		20	4	04/30/08 21:45	GY	4409421
Phenanthrene	ND		20	4	04/30/08 21:45	GY	4409421
Pyrene	ND		20	4	04/30/08 21:45	GY	4409421
Surr: 2-Fluorobiphenyl	60.0		% 23-116	4	04/30/08 21:45	GY	4409421
Surr: Nitrobenzene-d5	70.0		% 21-114	4	04/30/08 21:45	GY	4409421
Surr: Terphenyl-d14	28.0		% 22-141	4	04/30/08 21:45	GY	4409421

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS			MCL	SM2540 C	Units: mg/L		
Total Dissolved Solids (Residue, Filterable)	779	10	1	04/23/08 16:00	KRD		4395505

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-7

Collected: 04/22/2008 13:25

SPL Sample ID: 08041378-06

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	68		5	50	05/02/08 5:20	NW	4412208
Surr: n-Pentacosane	D	*	% 20-150	50	05/02/08 5:20	NW	4412208

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.38		0.1	1	04/29/08 18:49	DMN	4407044
Surr: 1,4-Difluorobenzene	102		% 60-155	1	04/29/08 18:49	DMN	4407044
Surr: 4-Bromofluorobenzene	112		% 50-158	1	04/29/08 18:49	DMN	4407044

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	107		5	10	04/28/08 22:52	A_E	4406388
Fluoride	0.966		0.5	1	04/29/08 3:48	A_E	4406405

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:36	CMC	4413144

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 14:52	EG	4410710
Boron	0.274		0.1	1	05/01/08 14:52	EG	4410710
Iron	0.772		0.02	1	05/01/08 14:52	EG	4410710

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-7

Collected: 04/22/2008 13:25

SPL Sample ID: 08041378-06

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.0216		0.005	1	05/02/08 17:37	AL_H	4415061
Barium	0.183		0.005	1	05/02/08 17:37	AL_H	4415061
Cadmium	ND		0.005	1	05/02/08 17:37	AL_H	4415061
Chromium	ND		0.005	1	05/02/08 17:37	AL_H	4415061
Cobalt	ND		0.005	1	05/02/08 17:37	AL_H	4415061
Copper	ND		0.005	1	05/02/08 17:37	AL_H	4415061
Lead	ND		0.005	1	05/02/08 17:37	AL_H	4415061
Manganese	0.0407		0.005	1	05/02/08 17:37	AL_H	4415061
Molybdenum	0.0402		0.01	1	05/02/08 18:57	AL_H	4415124
Nickel	0.0254		0.005	1	05/02/08 17:37	AL_H	4415061
Selenium	ND		0.005	1	05/02/08 18:57	AL_H	4415124
Silver	ND		0.005	1	05/02/08 18:57	AL_H	4415124
Zinc	ND		0.01	1	05/02/08 18:57	AL_H	4415124

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	04/29/08 18:49	DMN	4406452
Toluene	ND		1	1	04/29/08 18:49	DMN	4406452
Ethylbenzene	ND		1	1	04/29/08 18:49	DMN	4406452
m,p-Xylene	1.1		1	1	04/29/08 18:49	DMN	4406452
o-Xylene	ND		1	1	04/29/08 18:49	DMN	4406452
Xylenes, Total	1.1		1	1	04/29/08 18:49	DMN	4406452
Surr: 1,4-Difluorobenzene	93.3	%	39-163	1	04/29/08 18:49	DMN	4406452
Surr: 4-Bromofluorobenzene	102	%	57-157	1	04/29/08 18:49	DMN	4406452

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-7

Collected: 04/22/2008 13:25

SPL Sample ID: 08041378-06

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	ND		20	4	04/30/08 22:14	GY	4409422
2-Methylnaphthalene	ND		20	4	04/30/08 22:14	GY	4409422
Acenaphthene	ND		20	4	04/30/08 22:14	GY	4409422
Acenaphthylene	ND		20	4	04/30/08 22:14	GY	4409422
Anthracene	ND		20	4	04/30/08 22:14	GY	4409422
Benz(a)anthracene	ND		20	4	04/30/08 22:14	GY	4409422
Benzo(a)pyrene	ND		20	4	04/30/08 22:14	GY	4409422
Benzo(b)fluoranthene	ND		20	4	04/30/08 22:14	GY	4409422
Benzo(g,h,i)perylene	ND		20	4	04/30/08 22:14	GY	4409422
Benzo(k)fluoranthene	ND		20	4	04/30/08 22:14	GY	4409422
Chrysene	ND		20	4	04/30/08 22:14	GY	4409422
Dibenz(a,h)anthracene	ND		20	4	04/30/08 22:14	GY	4409422
Dibenzofuran	ND		20	4	04/30/08 22:14	GY	4409422
Fluoranthene	ND		20	4	04/30/08 22:14	GY	4409422
Fluorene	ND		20	4	04/30/08 22:14	GY	4409422
Indeno(1,2,3-cd)pyrene	ND		20	4	04/30/08 22:14	GY	4409422
Naphthalene	ND		20	4	04/30/08 22:14	GY	4409422
Phenanthrene	ND		20	4	04/30/08 22:14	GY	4409422
Pyrene	ND		20	4	04/30/08 22:14	GY	4409422
Surr: 2-Fluorobiphenyl	70.0	%	23-116	4	04/30/08 22:14	GY	4409422
Surr: Nitrobenzene-d5	72.0	%	21-114	4	04/30/08 22:14	GY	4409422
Surr: Terphenyl-d14	34.0	%	22-141	4	04/30/08 22:14	GY	4409422

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS			MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	699	10	1	04/23/08 16:00	KRD	4395506

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-13

Collected: 04/22/2008 14:20

SPL Sample ID: 08041378-07

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	0.8		0.1	1	04/29/08 21:13	NW	4412197
Surr: n-Pentacosane	86.8		% 20-150	1	04/29/08 21:13	NW	4412197

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	18		2.5	25	04/26/08 1:08	DMN	4399210
Surr: 1,4-Difluorobenzene	98.0		% 60-155	25	04/26/08 1:08	DMN	4399210
Surr: 4-Bromofluorobenzene	105		% 50-158	25	04/26/08 1:08	DMN	4399210

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	37.3		2	4	04/28/08 23:42	A_E	4406391
Fluoride	1.07		0.5	1	04/29/08 4:05	A_E	4406406

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:48	CMC	4413145

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 14:56	EG	4410711
Boron	0.385		0.1	1	05/01/08 14:56	EG	4410711
Iron	4.6		0.02	1	05/01/08 14:56	EG	4410711

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-13

Collected: 04/22/2008 14:20 SPL Sample ID: 08041378-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.03		0.005	1	05/02/08 17:43	AL_H	4415062
Barium	3.82		0.005	1	05/02/08 17:43	AL_H	4415062
Cadmium	ND		0.005	1	05/02/08 17:43	AL_H	4415062
Chromium	ND		0.005	1	05/02/08 17:43	AL_H	4415062
Cobalt	ND		0.005	1	05/02/08 17:43	AL_H	4415062
Copper	ND		0.005	1	05/02/08 17:43	AL_H	4415062
Lead	ND		0.005	1	05/02/08 17:43	AL_H	4415062
Manganese	0.177		0.005	1	05/02/08 17:43	AL_H	4415062
Molybdenum	ND		0.01	1	05/02/08 19:02	AL_H	4415125
Nickel	ND		0.005	1	05/02/08 17:43	AL_H	4415062
Selenium	ND		0.005	1	05/02/08 19:02	AL_H	4415125
Silver	ND		0.005	1	05/02/08 19:02	AL_H	4415125
Zinc	ND		0.01	1	05/02/08 19:02	AL_H	4415125

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	7500		25	25	04/26/08 1:08	DMN	4399141
Toluene	ND		25	25	04/26/08 1:08	DMN	4399141
Ethylbenzene	730		25	25	04/26/08 1:08	DMN	4399141
m,p-Xylene	ND		25	25	04/26/08 1:08	DMN	4399141
o-Xylene	ND		25	25	04/26/08 1:08	DMN	4399141
Xylenes, Total	ND		25	25	04/26/08 1:08	DMN	4399141
Surr: 1,4-Difluorobenzene	99.9	%	39-163	25	04/26/08 1:08	DMN	4399141
Surr: 4-Bromofluorobenzene	103	%	57-157	25	04/26/08 1:08	DMN	4399141

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-13

Collected: 04/22/2008 14:20

SPL Sample ID: 08041378-07

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	27		5	1	04/28/08 18:17	GY	4407297
2-Methylnaphthalene	27		5	1	04/28/08 18:17	GY	4407297
Acenaphthene	ND		5	1	04/28/08 18:17	GY	4407297
Acenaphthylene	ND		5	1	04/28/08 18:17	GY	4407297
Anthracene	ND		5	1	04/28/08 18:17	GY	4407297
Benz(a)anthracene	ND		5	1	04/28/08 18:17	GY	4407297
Benzo(a)pyrene	ND		5	1	04/28/08 18:17	GY	4407297
Benzo(b)fluoranthene	ND		5	1	04/28/08 18:17	GY	4407297
Benzo(g,h,i)perylene	ND		5	1	04/28/08 18:17	GY	4407297
Benzo(k)fluoranthene	ND		5	1	04/28/08 18:17	GY	4407297
Chrysene	ND		5	1	04/28/08 18:17	GY	4407297
Dibenz(a,h)anthracene	ND		5	1	04/28/08 18:17	GY	4407297
Dibenzofuran	ND		5	1	04/28/08 18:17	GY	4407297
Fluoranthene	ND		5	1	04/28/08 18:17	GY	4407297
Fluorene	ND		5	1	04/28/08 18:17	GY	4407297
Indeno(1,2,3-cd)pyrene	ND		5	1	04/28/08 18:17	GY	4407297
Naphthalene	51		5	1	04/28/08 18:17	GY	4407297
Phenanthrene	ND		5	1	04/28/08 18:17	GY	4407297
Pyrene	ND		5	1	04/28/08 18:17	GY	4407297
Surr: 2-Fluorobiphenyl	78.0		% 23-116	1	04/28/08 18:17	GY	4407297
Surr: Nitrobenzene-d5	72.0		% 21-114	1	04/28/08 18:17	GY	4407297
Surr: Terphenyl-d14	34.0		% 22-141	1	04/28/08 18:17	GY	4407297

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N M	1.00

TOTAL DISSOLVED SOLIDS				MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	660		100	10	04/23/08 16:00	KRD	4395507

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Duplicate-01

Collected: 04/22/2008 0:00

SPL Sample ID: 08041378-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	0.77		0.1	1	04/29/08 21:39	NW	4412199
Surr: n-Pentacosane	84.4		% 20-150	1	04/29/08 21:39	NW	4412199

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	17		2.5	25	04/26/08 1:36	DMN	4399211
Surr: 1,4-Difluorobenzene	95.9		% 60-155	25	04/26/08 1:36	DMN	4399211
Surr: 4-Bromofluorobenzene	103		% 50-158	25	04/26/08 1:36	DMN	4399211

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	39.3		2	4	04/28/08 23:58	A E	4406392
Fluoride	1.06		0.5	1	04/29/08 4:21	A E	4408407

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:51	CMC	4413146

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 15:01	EG	4410712
Boron	0.381		0.1	1	05/01/08 15:01	EG	4410712
Iron	4.51		0.02	1	05/01/08 15:01	EG	4410712

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Duplicate-01

Collected: 04/22/2008 0:00

SPL Sample ID: 08041378-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.0303		0.005	1	05/02/08 17:50	AL_H	4415063
Barium	3.83		0.005	1	05/02/08 17:50	AL_H	4415063
Cadmium	ND		0.005	1	05/02/08 17:50	AL_H	4415063
Chromium	ND		0.005	1	05/02/08 17:50	AL_H	4415063
Cobalt	ND		0.005	1	05/02/08 17:50	AL_H	4415063
Copper	ND		0.005	1	05/02/08 17:50	AL_H	4415063
Lead	ND		0.005	1	05/02/08 17:50	AL_H	4415063
Mercury	0.122		0.005	1	05/02/08 17:50	AL_H	4415063
Manganese	ND		0.01	1	05/02/08 17:50	AL_H	4415063
Nickel	ND		0.005	1	05/02/08 17:50	AL_H	4415063
Selenium	ND		0.005	1	05/02/08 19:07	AL_H	4415126
Silver	ND		0.005	1	05/02/08 19:07	AL_H	4415126
Zinc	ND		0.01	1	05/02/08 19:07	AL_H	4415126

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	7100		25	25	04/26/08 1:36	DMN	4399142
Toluene	ND		25	25	04/26/08 1:36	DMN	4399142
Ethylbenzene	660		25	25	04/26/08 1:36	DMN	4399142
m,p-Xylene	ND		25	25	04/26/08 1:36	DMN	4399142
o-Xylene	ND		25	25	04/26/08 1:36	DMN	4399142
Xylenes, Total	ND		25	25	04/26/08 1:36	DMN	4399142
Surr: 1,4-Difluorobenzene	95.4	%	39-163	25	04/26/08 1:36	DMN	4399142
Surr: 4-Bromofluorobenzene	100	%	57-157	25	04/26/08 1:36	DMN	4399142

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Duplicate-01

Collected: 04/22/2008 0:00

SPL Sample ID: 08041378-08

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	33		5	1	04/28/08 18:47	GY	4407298
2-Methylnaphthalene	32		5	1	04/28/08 18:47	GY	4407298
Acenaphthene	ND		5	1	04/28/08 18:47	GY	4407298
Acenaphthylene	ND		5	1	04/28/08 18:47	GY	4407298
Anthracene	ND		5	1	04/28/08 18:47	GY	4407298
Benz(a)anthracene	ND		5	1	04/28/08 18:47	GY	4407298
Benzo(a)pyrene	ND		5	1	04/28/08 18:47	GY	4407298
Benzo(b)fluoranthene	ND		5	1	04/28/08 18:47	GY	4407298
Benzo(g,h,i)perylene	ND		5	1	04/28/08 18:47	GY	4407298
Benzo(k)fluoranthene	ND		5	1	04/28/08 18:47	GY	4407298
Chrysene	ND		5	1	04/28/08 18:47	GY	4407298
Dibenz(a,h)anthracene	ND		5	1	04/28/08 18:47	GY	4407298
Dibenzofuran	ND		5	1	04/28/08 18:47	GY	4407298
Fluoranthene	ND		5	1	04/28/08 18:47	GY	4407298
Fluorene	ND		5	1	04/28/08 18:47	GY	4407298
Indeno(1,2,3-cd)pyrene	ND		5	1	04/28/08 18:47	GY	4407298
Naphthalene	62		5	1	04/28/08 18:47	GY	4407298
Phenanthrene	ND		5	1	04/28/08 18:47	GY	4407298
Pyrene	ND		5	1	04/28/08 18:47	GY	4407298
Surr: 2-Fluorobiphenyl	94.0		% 23-116	1	04/28/08 18:47	GY	4407298
Surr: Nitrobenzene-d5	88.0		% 21-114	1	04/28/08 18:47	GY	4407298
Surr: Terphenyl-d14	36.0		% 22-141	1	04/28/08 18:47	GY	4407298

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS			MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue, Filterable)	735	10	1	04/23/08 16:00	KRD	4395509

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID EW-2

Collected: 04/22/2008 16:15 SPL Sample ID: 08041378-09

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	100		5	50	05/02/08 7:03	NW	4412210
Surr: n-Pentacosane	D	*	% 20-150	50	05/02/08 7:03	NW	4412210

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/26/2008 11:56	LLL	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	9.2		1	10	04/29/08 19:17	DMN	4407045
Surr: 1,4-Difluorobenzene	99.2		% 60-155	10	04/29/08 19:17	DMN	4407045
Surr: 4-Bromofluorobenzene	105		% 50-158	10	04/29/08 19:17	DMN	4407045

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	79.1		5	10	04/29/08 0:15	A_E	4406393
Fluoride	0.558		0.5	1	04/29/08 4:38	A_E	4406408

MERCURY, DISSOLVED				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	05/02/08 16:53	CMC	4413147

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	05/02/2008 10:30	CMC	1.00

METALS BY METHOD 6010B, DISSOLVED				MCL	SW6010B	Units: mg/L	
Aluminum	ND		0.1	1	05/01/08 15:05	EG	4410713
Boron	0.244		0.1	1	05/01/08 15:05	EG	4410713
Iron	0.261		0.02	1	05/01/08 15:05	EG	4410713

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID EW-2

Collected: 04/22/2008 16:15 SPL Sample ID: 08041378-09

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020, DISSOLVED				MCL	SW6020A	Units: mg/L	
Arsenic	0.0146		0.005	1	05/02/08 17:56	AL_H	4415064
Barium	2.12		0.005	1	05/02/08 17:56	AL_H	4415064
Cadmium	ND		0.005	1	05/02/08 17:56	AL_H	4415064
Chromium	ND		0.005	1	05/02/08 17:56	AL_H	4415064
Cobalt	ND		0.005	1	05/02/08 17:56	AL_H	4415064
Copper	ND		0.005	1	05/02/08 17:56	AL_H	4415064
Lead	ND		0.005	1	05/02/08 17:56	AL_H	4415064
Manganese	0.0299		0.005	1	05/02/08 17:56	AL_H	4415064
Molybdenum	ND		0.01	1	05/02/08 19:12	AL_H	4415127
Nickel	ND		0.005	1	05/02/08 17:56	AL_H	4415064
Selenium	ND		0.005	1	05/02/08 19:12	AL_H	4415127
Silver	ND		0.005	1	05/02/08 19:12	AL_H	4415127
Zinc	ND		0.01	1	05/02/08 19:12	AL_H	4415127

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005A	04/26/2008 18:35	DDW	1.00

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	2400		10	10	04/29/08 19:17	DMN	4406453
Toluene	ND		10	10	04/29/08 19:17	DMN	4406453
Ethylbenzene	390		10	10	04/29/08 19:17	DMN	4406453
m,p-Xylene	430		10	10	04/29/08 19:17	DMN	4406453
o-Xylene	72		10	10	04/29/08 19:17	DMN	4406453
Xylenes, Total	502		10	10	04/29/08 19:17	DMN	4406453
Surr: 1,4-Difluorobenzene	104	%	39-163	10	04/29/08 19:17	DMN	4406453
Surr: 4-Bromofluorobenzene	102	%	57-157	10	04/29/08 19:17	DMN	4406453

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID EW-2

Collected: 04/22/2008 16:15 SPL Sample ID: 08041378-09

Site: Hobbs,NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/L	
1-Methylnaphthalene	180		50	10	04/28/08 20:16	GY	4407301
2-Methylnaphthalene	160		50	10	04/28/08 20:16	GY	4407301
Acenaphthene	ND		50	10	04/28/08 20:16	GY	4407301
Acenaphthylene	ND		50	10	04/28/08 20:16	GY	4407301
Anthracene	ND		50	10	04/28/08 20:16	GY	4407301
Benz(a)anthracene	ND		50	10	04/28/08 20:16	GY	4407301
Benzo(a)pyrene	ND		50	10	04/28/08 20:16	GY	4407301
Benzo(b)fluoranthene	ND		50	10	04/28/08 20:16	GY	4407301
Benzo(g,h,i)perylene	ND		50	10	04/28/08 20:16	GY	4407301
Benzo(k)fluoranthene	ND		50	10	04/28/08 20:16	GY	4407301
Chrysene	ND		50	10	04/28/08 20:16	GY	4407301
Dibenz(a,h)anthracene	ND		50	10	04/28/08 20:16	GY	4407301
Dibenzofuran	ND		50	10	04/28/08 20:16	GY	4407301
Fluoranthene	ND		50	10	04/28/08 20:16	GY	4407301
Fluorene	ND		50	10	04/28/08 20:16	GY	4407301
Indeno(1,2,3-cd)pyrene	ND		50	10	04/28/08 20:16	GY	4407301
Naphthalene	67		50	10	04/28/08 20:16	GY	4407301
Phenanthrene	ND		50	10	04/28/08 20:16	GY	4407301
Pyrene	ND		50	10	04/28/08 20:16	GY	4407301
Surr: 2-Fluorobiphenyl	D	*	% 23-116	10	04/28/08 20:16	GY	4407301
Surr: Nitrobenzene-d5	D	*	% 21-114	10	04/28/08 20:16	GY	4407301
Surr: Terphenyl-d14	D	*	% 22-141	10	04/28/08 20:16	GY	4407301

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	04/25/2008 9:23	N_M	1.00

TOTAL DISSOLVED SOLIDS			MCL	SM2540 C	Units: mg/L	
Total Dissolved Solids (Residue,Filterable)	648		10	1	04/23/08 16:00	KRD 4395511

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 08041378
Lab Batch ID: 78101

Method Blank

RunID: HP_V_080429C-4412188 Units: mg/L
Analysis Date: 04/29/2008 13:38 Analyst: NW
Preparation Date: 04/26/2008 11:56 Prep By: LLL Method SW3510C

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	0.10
Surr: n-Pentacosane	84.4	20-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01D	SVE-1
08041378-02D	IW-2
08041378-03D	IW-3
08041378-04D	IW-4
08041378-05D	IW-5
08041378-06D	IW-7
08041378-07D	MW-13
08041378-08D	Duplicate-01
08041378-09D	EW-2

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_V_080429C-4412191 Units: mg/L
Analysis Date: 04/29/2008 14:02 Analyst: NW
Preparation Date: 04/26/2008 11:56 Prep By: LLL Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	2.00	1.80	90.0	2.00	1.85	92.4	2.7	20	21	130
Surr: n-Pentacosane	0.0500	0.0524	105	0.0500	0.0561	112	6.8	30	20	150

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08041378
Lab Batch ID: R235280

Method Blank

RunID: HP_U_080425A-4399130 Units: ug/L
Analysis Date: 04/25/2008 13:17 Analyst: DMN
Preparation Date: 04/25/2008 13:17 Prep By: Method

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01A	SVE-1
08041378-07A	MW-13
08041378-08A	Duplicate-01

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	93.4	39-163
Surr: 4-Bromofluorobenzene	99.4	57-157

Laboratory Control Sample (LCS)

RunID: HP_U_080425A-4399129 Units: ug/L
Analysis Date: 04/25/2008 11:54 Analyst: DMN
Preparation Date: 04/25/2008 11:54 Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.3	91.7	70	130
Ethylbenzene	20.0	18.2	91.0	70	130
Toluene	20.0	18.2	91.1	70	130
m,p-Xylene	40.0	36.8	92.0	70	130
o-Xylene	20.0	18.1	90.4	70	130
Xylenes, Total	60.0	54.9	91.5	70	130
Surr: 1,4-Difluorobenzene	100	91.7	91.7	39	163
Surr: 4-Bromofluorobenzene	100	101	101	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041279-01
RunID: HP_U_080425A-4399134 Units: ug/L
Analysis Date: 04/25/2008 15:08 Analyst: DMN

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08041378
Lab Batch ID: R235280

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	17.9	89.4	20	18.8	93.8	4.76	26	40	165
Ethylbenzene	ND	20	18.6	92.8	20	18.8	94.2	1.42	34	51	156
Toluene	ND	20	17.4	86.8	20	18.1	90.3	3.99	25	58	153
m,p-Xylene	ND	40	36.3	90.8	40	37.7	94.2	3.64	27	51	155
o-Xylene	ND	20	17.1	85.6	20	17.9	89.5	4.44	25	58	151
Xylenes, Total	ND	60	53.4	89.1	60	55.6	92.6	3.90	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	92.6	92.6	100	95.9	95.9	3.55	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	103	103	100	104	104	0.597	30	57	157

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 08041378
Lab Batch ID: R235282

Method Blank

Samples in Analytical Batch:

RunID: HP_U_080425B-4399195 Units: mg/L
Analysis Date: 04/25/2008 13:17 Analyst: DMN
Preparation Date: 04/25/2008 13:17 Prep By: Method

Lab Sample ID
08041378-01A
08041378-07A
08041378-08A
Client Sample ID
SVE-1
MW-13
Duplicate-01

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	95.1	60-155
Surr: 4-Bromofluorobenzene	100.3	50-158

Laboratory Control Sample (LCS)

RunID: HP_U_080425B-4399194 Units: mg/L
Analysis Date: 04/25/2008 12:22 Analyst: DMN
Preparation Date: 04/25/2008 12:22 Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.978	97.8	42	136
Surr: 1,4-Difluorobenzene	0.100	0.1	100	60	155
Surr: 4-Bromofluorobenzene	0.100	0.106	106	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041279-02
RunID: HP_U_080425B-4399199 Units: mg/L
Analysis Date: 04/25/2008 16:04 Analyst: DMN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.961	96.1	1	0.950	95.0	1.19	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.0994	99.4	0.1	0.0987	98.7	0.707	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.105	105	0.1	0.105	105	0.190	30	50	158

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08041378
Lab Batch ID: R235643

Method Blank

RunID: HP_U_080429A-4406444 Units: ug/L
Analysis Date: 04/29/2008 11:51 Analyst: DMN
Preparation Date: 04/29/2008 11:51 Prep By: Method

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	100.4	39-163
Surr: 4-Bromofluorobenzene	98.5	57-157

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-02A	IW-2
08041378-03A	IW-3
08041378-04A	IW-4
08041378-05A	IW-5
08041378-06A	IW-7
08041378-09A	EW-2

Laboratory Control Sample (LCS)

RunID: HP_U_080429A-4406443 Units: ug/L
Analysis Date: 04/29/2008 10:28 Analyst: DMN
Preparation Date: 04/29/2008 10:28 Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.1	101	70	130
Ethylbenzene	20.0	20.5	102	70	130
Toluene	20.0	19.2	96.0	70	130
m,p-Xylene	40.0	41.0	102	70	130
o-Xylene	20.0	20.1	101	70	130
Xylenes, Total	60.0	61.1	102	70	130
Surr: 1,4-Difluorobenzene	100	98.2	98.2	39	163
Surr: 4-Bromofluorobenzene	100	101	101	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041378-02
RunID: HP_U_080429A-4406449 Units: ug/L
Analysis Date: 04/29/2008 17:26 Analyst: DMN

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08041378
Lab Batch ID: R235643

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	21.2	106	20	21.5	108	1.26	26	40	165
Ethylbenzene	ND	20	17.0	85.2	20	18.8	94.0	9.80	34	51	156
Toluene	ND	20	18.8	93.9	20	19.2	96.1	2.32	25	58	153
m,p-Xylene	ND	40	35.0	85.0	40	35.4	86.0	1.13	27	51	155
o-Xylene	ND	20	17.6	88.0	20	18.7	93.5	6.00	25	58	151
Xylenes, Total	ND	60	52.6	86.0	60	54.1	88.5	2.79	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	92.9	92.9	100	97.5	97.5	4.83	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	99.9	99.9	100	103	103	2.91	30	57	157

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 08041378
Lab Batch ID: R235690

Method Blank

RunID: HP_U_080429C-4407034 Units: mg/L
Analysis Date: 04/29/2008 11:51 Analyst: DMN
Preparation Date: 04/29/2008 11:51 Prep By: Method

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	98.8	60-155
Surr: 4-Bromofluorobenzene	100.1	50-158

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-02A	IW-2
08041378-03A	IW-3
08041378-04A	IW-4
08041378-05A	IW-5
08041378-06A	IW-7
08041378-09A	EW-2

Laboratory Control Sample (LCS)

RunID: HP_U_080429C-4407033 Units: mg/L
Analysis Date: 04/29/2008 10:56 Analyst: DMN
Preparation Date: 04/29/2008 10:56 Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.03	103	42	136
Surr: 1,4-Difluorobenzene	0.100	0.101	101	60	155
Surr: 4-Bromofluorobenzene	0.100	0.102	102	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041484-01
RunID: HP_U_080429C-4407039 Units: mg/L
Analysis Date: 04/29/2008 15:07 Analyst: DMN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.925	92.5	1	0.914	91.4	1.25	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.102	102	0.1	0.100	100	1.87	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.104	104	0.1	0.102	102	1.84	30	50	158

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Metals by Method 6010B, Dissolved
Method: SW6010B

WorkOrder: 08041378
Lab Batch ID: 78121

Method Blank

RunID: TJA_080501A-4410697 Units: mg/L
Analysis Date: 05/01/2008 13:10 Analyst: EG
Preparation Date: 04/26/2008 18:35 Prep By: DD Method SW3005A

Analyte	Result	Rep Limit
Aluminum	ND	0.1
Boron	ND	0.1
Iron	ND	0.02

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01F	SVE-1
08041378-02F	IW-2
08041378-03F	IW-3
08041378-04F	IW-4
08041378-05F	IW-5
08041378-06F	IW-7
08041378-07F	MW-13
08041378-08F	Duplicate-01
08041378-09F	EW-2

Laboratory Control Sample (LCS)

RunID: TJA_080501A-4410698 Units: mg/L
Analysis Date: 05/01/2008 13:14 Analyst: EG
Preparation Date: 04/26/2008 18:35 Prep By: Method SW3005A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Aluminum	1.000	0.9515	95.15	80	120
Boron	1.000	0.9085	90.85	80	120
Iron	1.000	1.039	103.9	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041591-07
RunID: TJA_080501A-4410700 Units: mg/L
Analysis Date: 05/01/2008 13:59 Analyst: EG
Preparation Date: 04/26/2008 18:35 Prep By: DD Method SW3005A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Aluminum	ND	1	0.9740	97.40	1	0.9482	94.82	2.688	20	75	125
Boron	ND	1	1.337	92.42	1	1.311	89.75	2.015	20	75	125
Iron	9.795	1	10.66	N/C	1	10.76	N/C	N/C	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Metals by Method 6020, Dissolved
Method: SW6020A

WorkOrder: 08041378
Lab Batch ID: 78121A-I

Method Blank

RunID: ICPMS2_080502A-4415046 Units: mg/L
Analysis Date: 05/02/2008 15:59 Analyst: AL_H
Preparation Date: 04/26/2008 18:35 Prep By: DD Method SW3005A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01F	SVE-1
08041378-02F	IW-2
08041378-03F	IW-3
08041378-04F	IW-4
08041378-05F	IW-5
08041378-06F	IW-7
08041378-07F	MW-13
08041378-08F	Duplicate-01
08041378-09F	EW-2

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Barium	ND	0.005
Cadmium	ND	0.005
Chromium	ND	0.005
Cobalt	ND	0.005
Copper	ND	0.005
Lead	ND	0.005
Manganese	ND	0.005
Nickel	ND	0.005

Laboratory Control Sample (LCS)

RunID: ICPMS2_080502A-4415047 Units: mg/L
Analysis Date: 05/02/2008 16:05 Analyst: AL_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	0.1000	0.1144	114.4	80	120
Barium	0.1000	0.1078	107.8	80	120
Cadmium	0.1000	0.1198	119.8	80	120
Chromium	0.1000	0.1138	113.8	80	120
Cobalt	0.1000	0.1156	115.6	80	120
Copper	0.1000	0.1161	116.1	80	120
Lead	0.1000	0.09702	97.02	80	120
Manganese	0.1000	0.09898	98.98	80	120
Nickel	0.1000	0.1088	108.8	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041591-07
RunID: ICPMS2_080502A-4415049 Units: mg/L
Analysis Date: 05/02/2008 16:19 Analyst: AL_H
Preparation Date: 04/26/2008 18:35 Prep By: DD Method SW3005A

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Metals by Method 6020, Dissolved
Method: SW6020A

WorkOrder: 08041378
Lab Batch ID: 78121A-I

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	ND	0.1	0.1201	120.1	0.1	0.1199	119.9	0.1667	20	75	125
Barium	ND	0.1	0.1928	105.4	0.1	0.2023	114.9	4.809	20	75	125
Cadmium	ND	0.1	0.1155	115.5	0.1	0.1133	113.3	1.923	20	75	125
Chromium	ND	0.1	0.1059	105.9	0.1	0.1046	104.6	1.235	20	75	125
Cobalt	ND	0.1	0.1195	119.5	0.1	0.1248	124.8	4.339	20	75	125
Copper	ND	0.1	0.1537	111.3	0.1	0.1480	105.6	3.779	20	75	125
Lead	ND	0.1	0.09088	90.88	0.1	0.09512	95.12	4.559	20	75	125
Manganese	10.30	0.1	11.16	N/C	0.1	11.12	N/C	N/C	20	75	125
Nickel	ND	0.1	0.1275	105.8	0.1	0.1234	101.7	3.268	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Metals by Method 6020, Dissolved
Method: SW6020A

WorkOrder: 08041378
Lab Batch ID: 78121B-I

Method Blank

RunID: ICPMS_080502A-4415160 Units: mg/L
Analysis Date: 05/02/2008 17:14 Analyst: AL_H
Preparation Date: 04/26/2008 18:35 Prep By: DD Method SW3005A

Analyte	Result	Rep Limit
Molybdenum	ND	0.01
Selenium	ND	0.005
Silver	ND	0.005
Zinc	ND	0.01

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01F	SVE-1
08041378-02F	IW-2
08041378-03F	IW-3
08041378-04F	IW-4
08041378-05F	IW-5
08041378-06F	IW-7
08041378-07F	MW-13
08041378-08F	Duplicate-01
08041378-09F	EW-2

Laboratory Control Sample (LCS)

RunID: ICPMS_080502A-4415161 Units: mg/L
Analysis Date: 05/02/2008 17:19 Analyst: AL_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Molybdenum	0.1000	0.09863	98.63	80	120
Selenium	0.1000	0.1031	103.1	80	120
Silver	0.1000	0.09561	95.61	80	120
Zinc	0.1000	0.09386	93.86	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 08041591-07
RunID: ICPMS_080502A-4415115 Units: mg/L
Analysis Date: 05/02/2008 18:11 Analyst: AL_H

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Selenium	ND	10	10.49	103.0	10	10.46	102.7	0.2864	20	75	125
Zinc	ND	10	9.13	89.62	10	9.307	91.39	1.920	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Metals by Method 6020, Dissolved
Method: SW6020A

WorkOrder: 08041378
Lab Batch ID: 78121B-I

Sample Spiked: 08041591-07
RunID: ICPMS_080502A-4415112 Units: mg/L
Analysis Date: 05/02/2008 17:55 Analyst: AL_H
Preparation Date: 04/26/2008 18:35 Prep By: DD Method SW3005A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Molybdenum	ND	0.1	D	D	0.1	D	D	D	20	75	125
Selenium	ND	0.1	0.3534	158.6 *	0.1	0.4662	271.4 *	27.53 *	20	75	125
Silver	ND	0.1	D	D	0.1	D	D	D	20	75	125
Zinc	ND	0.1	0.2971	128.8 *	0.1	0.2942	125.9 *	0.9809	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Mercury, Dissolved
Method: SW7470A

WorkOrder: 08041378
Lab Batch ID: 78407

Method Blank

RunID: HGLC_080502A-4413133 Units: mg/L
Analysis Date: 05/02/2008 16:10 Analyst: CMC
Preparation Date: 05/02/2008 10:30 Prep By: CMC Method SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01F	SVE-1
08041378-02F	IW-2
08041378-03F	IW-3
08041378-04F	IW-4
08041378-05F	IW-5
08041378-06F	IW-7
08041378-07F	MW-13
08041378-08F	Duplicate-01
08041378-09F	EW-2

Laboratory Control Sample (LCS)

RunID: HGLC_080502A-4413134 Units: mg/L
Analysis Date: 05/02/2008 16:13 Analyst: CMC
Preparation Date: 05/02/2008 10:30 Prep By: CMC Method SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.002048	102.4	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041378-01
RunID: HGLC_080502A-4413136 Units: mg/L
Analysis Date: 05/02/2008 16:17 Analyst: CMC
Preparation Date: 05/02/2008 10:30 Prep By: CMC Method SW7470A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.002	0.001921	96.06	0.002	0.001995	99.74	3.758	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Semivolatiles Organics by Method 8270C
Method: SW8270C

WorkOrder: 08041378
Lab Batch ID: 78050

Method Blank

RunID: H_080428B-4407292 Units: ug/L
Analysis Date: 04/28/2008 16:17 Analyst: GY
Preparation Date: 04/25/2008 9:23 Prep By: N_M Method SW3510C

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01C	SVE-1
08041378-02C	IW-2
08041378-03C	IW-3
08041378-04C	IW-4
08041378-05C	IW-5
08041378-06C	IW-7
08041378-07C	MW-13
08041378-08C	Duplicate-01
08041378-09C	EW-2

Analyte	Result	Rep Limit
1-Methylnaphthalene	ND	5.0
2-Methylnaphthalene	ND	5.0
Acenaphthene	ND	5.0
Acenaphthylene	ND	5.0
Anthracene	ND	5.0
Benz(a)anthracene	ND	5.0
Benzo(a)pyrene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Chrysene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Dibenzofuran	ND	5.0
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Naphthalene	ND	5.0
Phenanthrene	ND	5.0
Pyrene	ND	5.0
Surr: 2-Fluorobiphenyl	94.0	23-116
Surr: Nitrobenzene-d5	92.0	21-114
Surr: Terphenyl-d14	86.0	22-141

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: H_080428B-4407293 Units: ug/L
Analysis Date: 04/28/2008 16:47 Analyst: GY
Preparation Date: 04/25/2008 9:23 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1-Methylnaphthalene	50.0	46.0	92.0	50.0	42.0	84.0	9.1	50	30	120
2-Methylnaphthalene	50.0	47.0	94.0	50.0	42.0	84.0	11.2	50	20	170
Acenaphthene	50.0	49.0	98.0	50.0	44.0	88.0	10.8	31	30	150
Acenaphthylene	50.0	49.0	98.0	50.0	44.0	88.0	10.8	50	33	250
Anthracene	50.0	48.0	96.0	50.0	43.0	86.0	11.0	50	27	133
Benz(a)anthracene	50.0	49.0	98.0	50.0	44.0	88.0	10.8	50	33	143
Benzo(a)pyrene	50.0	53.0	106	50.0	48.0	96.0	9.9	50	17	163
Benzo(b)fluoranthene	50.0	49.0	98.0	50.0	44.0	88.0	10.8	50	24	159

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Semivolatiles Organics by Method 8270C
Method: SW8270C

WorkOrder: 08041378
Lab Batch ID: 78050

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: H_080428B-4407293 Units: ug/L
Analysis Date: 04/28/2008 16:47 Analyst: GY
Preparation Date: 04/25/2008 9:23 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzo(g,h,i)perylene	50.0	51.0	102	50.0	47.0	94.0	8.2	50	30	160
Benzo(k)fluoranthene	50.0	51.0	102	50.0	48.0	96.0	6.1	50	11	162
Chrysene	50.0	49.0	98.0	50.0	45.0	90.0	8.5	50	17	168
Dibenz(a,h)anthracene	50.0	52.0	104	50.0	46.0	92.0	12.2	50	30	160
Dibenzofuran	50.0	51.0	102	50.0	47.0	94.0	8.2	50	30	150
Fluoranthene	50.0	47.0	94.0	50.0	43.0	86.0	8.9	50	26	137
Fluorene	50.0	50.0	100	50.0	46.0	92.0	8.3	50	30	150
Indeno(1,2,3-cd)pyrene	50.0	47.0	94.0	50.0	44.0	88.0	6.6	50	30	160
Naphthalene	50.0	47.0	94.0	50.0	43.0	86.0	8.9	50	21	133
Phenanthrene	50.0	50.0	100	50.0	46.0	92.0	8.3	50	10	140
Pyrene	50.0	51.0	102	50.0	46.0	92.0	10.3	31	30	150
Surr: 2-Fluorobiphenyl	50.0	53.0	106	50.0	47.0	94.0	12.0	30	23	116
Surr: Nitrobenzene-d5	50.0	50.0	100	50.0	44.0	88.0	12.8	30	21	114
Surr: Terphenyl-d14	50.0	43.0	86.0	50.0	38.0	76.0	12.3	30	22	141

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Total Dissolved Solids
Method: SM2540 C

WorkOrder: 08041378
Lab Batch ID: R235055

Method Blank

RunID: WET_080423ZD-4395494 Units: mg/L
Analysis Date: 04/23/2008 16:00 Analyst: KRD

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-03B	IW-3
08041378-04B	IW-4
08041378-05B	IW-5
08041378-06B	IW-7
08041378-07B	MW-13
08041378-08B	Duplicate-01
08041378-09B	EW-2

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_080423ZD-4395496 Units: mg/L
Analysis Date: 04/23/2008 16:00 Analyst: KRD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filtera	200.0	198.0	99.00	200.0	202.0	101.0	2.0	10	95	107

Sample Duplicate

Original Sample: 08041378-08
RunID: WET_080423ZD-4395509 Units: mg/L
Analysis Date: 04/23/2008 16:00 Analyst: KRD

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filtera	735	737	0.272	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Total Dissolved Solids
Method: SM2540 C

WorkOrder: 08041378
Lab Batch ID: R235055A

Method Blank

RunID: WET_080423ZD-4395494 Units: mg/L
Analysis Date: 04/23/2008 16:00 Analyst: KRD

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01B	SVE-1
08041378-02B	IW-2

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_080423ZD-4395496 Units: mg/L
Analysis Date: 04/23/2008 16:00 Analyst: KRD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filtera	200.0	198.0	99.00	200.0	202.0	101.0	2.0	10	95	107

Sample Duplicate

Original Sample: 08041378-01
RunID: WET_080423ZD-4395500 Units: mg/L
Analysis Date: 04/23/2008 16:00 Analyst: KRD

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filtera	680	682	0.294	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 08041378
Lab Batch ID: R235641F

Method Blank

RunID: IC1_080428A-4406379 Units: mg/L
Analysis Date: 04/28/2008 20:25 Analyst: A_E

Analyte	Result	Rep Limit
Chloride	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01B	SVE-1
08041378-02B	IW-2
08041378-03B	IW-3
08041378-04B	IW-4
08041378-05B	IW-5
08041378-06B	IW-7
08041378-07B	MW-13
08041378-08B	Duplicate-01
08041378-09B	EW-2

Laboratory Control Sample (LCS)

RunID: IC1_080428A-4406380 Units: mg/L
Analysis Date: 04/28/2008 20:41 Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	9.459	94.59	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041378-02
RunID: IC1_080428A-4406383 Units: mg/L
Analysis Date: 04/28/2008 21:30 Analyst: A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	83.33	100	192.4	109.1	100	192.4	109.1	0.02235	20	80	120

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 08041378
Lab Batch ID: R235641G

Method Blank

RunID: IC1_080428A-4406394 Units: mg/L
Analysis Date: 04/29/2008 0:31 Analyst: A_E

Analyte	Result	Rep Limit
Fluoride	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08041378-01B	SVE-1
08041378-02B	IW-2
08041378-03B	IW-3
08041378-04B	IW-4
08041378-05B	IW-5
08041378-06B	IW-7
08041378-07B	MW-13
08041378-08B	Duplicate-01
08041378-09B	EW-2

Laboratory Control Sample (LCS)

RunID: IC1_080428A-4406395 Units: mg/L
Analysis Date: 04/29/2008 0:48 Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Fluoride	10.00	10.45	104.5	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08041378-02
RunID: IC1_080428A-4406398 Units: mg/L
Analysis Date: 04/29/2008 1:53 Analyst: A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Fluoride	1.003	10	11.07	100.7	10	11.21	102.1	1.221	20	80	120

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

08041378 Page 49

5/21/2008 10:46:50 AM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 08041378

Received By: RE

Date and Time Received: 4/23/2008 10:00:00 AM

Carrier name: Fedex-Standard Overnight

Temperature: 3.5°C

Chilled by: Water Ice

- | | | | |
|--|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| 3. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Yes ☒ | No ☐ | |
| 5. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 6. Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| 7. Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| 8. Sample containers intact? | Yes ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 10. All samples received within holding time? | Yes ☒ | No ☐ | |
| 11. Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | |
| 12. Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | VOA Vials Not Present ☒ |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes ☐ | No ☐ | Not Applicable ☒ |

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

Analysis Request & Chain of Custody Record

Requested Analysis

page / of 88

[illegible]



80711

page 2 of 8

Client Name: <u>Wing Tech</u>										matrix	
Address: <u>1803 Industrial Ave Midland TX 79701</u>										bottle	
Phone/Fax: <u>214-679-9734</u>										size	
Client Contact: <u>Gary Pope</u> Email: _____										pres.	
Project Name/No.: <u>Line 111 1-1</u>										Number of Containers	
Site Name: _____										Requested Analysis	
Site Location: <u>Hobbs, NM</u>											
Invoice To: _____ Ph: _____											
SAMPLE ID											
DATE											
TIME											
comp											
grab											
W=water S=soil O=oil											
SL=sludge X=other											
P=plastic A=amber glass											
G=glass V=vial X=other											
1=1 liter 4=4oz 40=vial											
8=8oz 16=16oz X=other											
1=HC1 2=HNO3											
3=H2SO4 X=other											
Number of Containers											
ph 4/23/08											
BTEx 8021 L2											
TPH - GRO 8015 m L2											
TPH - DRO ph LL											
Chloride and Fluoride											
Total Diss Solids											
PAH - 8270											
mercury ph LL											
16 WQCC Metals L2											
URANIUM											



SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No.

280842

08241378

page 3 of 8

Requested Analysis

matrix bottle size pres.

Number of Containers

BTEX 8021 C2

TPH - GRO 8015 m

TPH - DRO pH L2

Chloride and Fluoride

Total Diss Solids

PAH - 8270

Mercury pH L2

16 WQCC Metals

GRANI 4m

W=water S=soil O=oil
SL=sludge X=other

P=plastic A=amber glass
G=glass V=vial X=other

1=1 liter 4=4oz 40=vial
8=8oz 16=16oz X=other

1=HCl 2=HNO3
3=H2SO4 X=other

ph 4/23/08



Analysis Request & Chain of Custody Record

CPI Workorder No

280843

08041378

Page 4 of 8

[illegible]



SPL, Inc.

SPL Workorder No.

280844

Analysis Request & Chain of Custody Record

08041378

page 5 of 8

Client Name: Tetra Tech

Address: 1703 Industrial Ave Midland TX 79701

Phone/Fax: 814-679-9734

Client Contact: Gros Pele Email:

Project Name/No.: Line Am 1-1

Site Name:

Site Location: Hobbs, NM

Invoice To: Ph:

SAMPLE ID

DATE

TIME

comp

grab

matrix bottle size pres.

P=plastic A=amber glass
G=glass V=vial X=other

1=1 liter 4=4oz 40=vial
8=8oz 16=16oz X=other

1=HC1 2=HNO3
3=H2SO4 X=other

Number of Containers
ph 4/23/08

BTEX 8021^{L2}

TPH-600 80/5m^{L2}

TPH-DRO ph^{L2}

Chloride and Fluoride

TOTAL Diss Solids

PAH - 8270

Mercury ph^{L2}

16 WQCC Metals^{L2}

GRANULUM

Requested Analysis

Client/Consultant Remarks:

"F" Field Filtered

Laboratory remarks:

Intact?

Ice?

Temp:

YY
YY
NN

Requested TAT

Contract ☐ 72hr ☐

24hr ☐ Standard ☐

48hr ☐

Other ☐

Special Reporting Requirements

Results:

Fax ☐

Email ☐

PDF ☐

Special Detection Limits (specify):

PM review (initial):

Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐

TX TRRP ☐

LA RECAP ☐

1. Relinquished by Sampler:

date

time

4/22/08

1800

3. Relinquished by:

date

time

4/23/08

1000

5. Relinquished by:

date

time

4/23/08

1000

6. Received by Laboratory:

date

time

4/23/08

1000

880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70555 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777



CDR Wadsworth No

280819

Analysis Request & Chain of Custody Record

[illegible]



80818

Analysis Request & Chain of Custody Record

1000	A
------	---

[illegible]

SUBCONTRACT ANALYSIS



2609 North River Road, Port Allen, Louisiana 70767

(800) 401-4277 -- FAX (225) 381-2996

American Radiation Services, Inc.

Laboratory Analysis Report

ARS1-08-00772

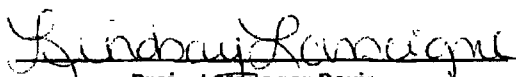
Prepared for:

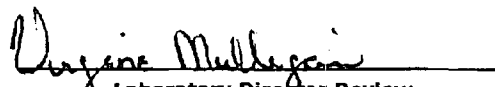
SPL

**Bethany Agarwal
8880 Interchange Dr.
Houston, TX 77054**

Phone: (713) 660-0901

Fax: (713) 660-8975


Project Manager Review


Laboratory Director Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

Project Manager

ProjectManagers@amrad.com

**Phone: 225.381.2991
Fax: 225.381.2996**



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

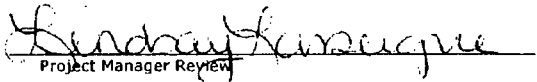
5VE-1

ARS Sample Delivery Group: ARS1-08-00772
Client Sample ID: 08041378-01E
Sample Collection Date: 04/22/08 08:10
Sample Matrix: Aqueous

Request or PO Number: 08041378
ARS Sample ID: ARS1-08-00772-001
Date Received: 4/28/08 0:00
Report Date: 05/16/08 08:48

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	2.682	0.964	1.010	0.432	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:35	KH	7.69%
U-235	0.005	0.301	0.672	0.251	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	7.69%
U-238	1.544	0.705	0.779	0.316	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:35	KH	7.69%

NOTES: The tracer recovery fell outside the acceptance criteria biased low. The sample activity has low results and natural occurring Uranium; therefore, results are being reported per technical review.


Project Manager Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



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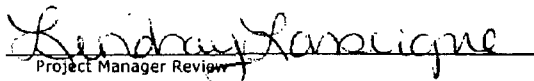
ARS Sample Delivery Group: ARS1-08-00772
Client Sample ID: 08041378-02E
Sample Collection Date: 04/22/08 09:05
Sample Matrix: Aqueous

IW-2

Request or PO Number: 08041378
ARS Sample ID: ARS1-08-00772-002
Date Received: 4/28/08 0:00
Report Date: 05/16/08 08:48

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.909	0.297	0.249	0.101	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	24.93%
U-235	0.082	0.081	0.055	0.000	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	24.93%
U-238	0.685	0.278	0.308	0.130	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	24.93%

NOTES: The tracer recovery fell outside the acceptance criteria biased low. The sample activity has low results and natural occurring Uranium; therefore, results are being reported per technical review.


Project Manager Review

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ARS Sample Delivery Group: ARS1-08-00772

Client Sample ID: 08041378-03E

Sample Collection Date: 04/22/08 09:45

Sample Matrix: Aqueous

Request or PO Number: 08041378

ARS Sample ID: ARS1-08-00772-003

Date Received: 4/28/08 0:00

Report Date: 05/16/08 08:48

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	1.836	0.425	0.265	0.111	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	25.25%
U-235	0.037	0.056	0.087	0.016	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	25.25%
U-238	1.123	0.316	0.225	0.090	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	25.25%

NOTES: The tracer recovery fell outside the acceptance criteria biased low. The sample activity has low results and natural occurring Uranium; therefore, results are being reported per technical review.

Project Manager Review

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Iw-4

ARS Sample Delivery Group: ARS1-08-00772

Client Sample ID: 08041378-04E

Sample Collection Date: 04/22/08 10:25

Sample Matrix: Aqueous

Request or PO Number: 08041378

ARS Sample ID: ARS1-08-00772-004

Date Received: 4/28/08 0:00

Report Date: 05/16/08 08:48

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	4.480	0.689	0.077	0.024	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	33.84%
U-235	0.120	0.076	0.033	0.000	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	33.84%
U-238	2.977	0.502	0.113	0.042	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	33.84%

NOTES:

Sunday Lamineque
Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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NELAP Certificate # E87558



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W-5

ARS Sample Delivery Group: ARS1-08-00772
Client Sample ID: 08041378-05E
Sample Collection Date: 04/22/08 11:00
Sample Matrix: Aqueous

Request or PO Number: 08041378
ARS Sample ID: ARS1-08-00772-005
Date Received: 4/28/08 0:00
Report Date: 05/16/08 08:48

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	1.568	0.268	0.070	0.027	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:43	KH	72.21%
U-235	0.027	0.026	0.018	0.000	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:43	KH	72.21%
U-238	0.940	0.184	0.016	0.000	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:43	KH	72.21%

NOTES:

Lindsay Lamineigne
Project Manager Review

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ARS Sample Delivery Group: ARS1-08-00772

Client Sample ID: 08041378-07E

Sample Collection Date: 04/22/08 14:20

Sample Matrix: Aqueous

MW-13

Request or PO Number: 08041378

ARS Sample ID: ARS1-08-00772-006

Date Received: 4/28/08 0:00

Report Date: 05/16/08 08:48

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	3.810	0.609	0.134	0.053	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:42	KH	41.78%
U-235	0.075	0.060	0.033	0.000	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:42	KH	41.78%
U-238	2.481	0.443	0.160	0.066	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:42	KH	41.78%

NOTES:

Lindsay Lamineigne
Project Manager Review

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NELAP Certificate # E87558



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ARS Sample Delivery Group: ARS1-08-00772

Client Sample ID: 08041378-08E

Sample Collection Date: 04/22/08 00:00

Sample Matrix: Aqueous

Request or PO Number: 08041378

ARS Sample ID: ARS1-08-00772-007

Date Received: 4/28/08 0:00

Report Date: 05/16/08 08:48

dup-1

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	3.920	0.603	0.085	0.030	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:42	KH	45.72%
U-235	0.074	0.056	0.029	0.000	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:42	KH	45.72%
U-238	2.426	0.420	0.145	0.060	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:42	KH	45.72%

NOTES:

Lindsay Kameigui
Project Manager Review

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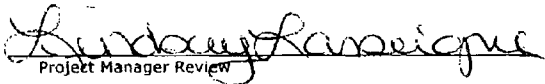
ARS Sample Delivery Group: ARS1-08-00772
Client Sample ID: 08041378-09E
Sample Collection Date: 04/22/08 16:15
Sample Matrix: Aqueous

EW-2

Request or PO Number: 08041378
ARS Sample ID: ARS1-08-00772-008
Date Received: 4/28/08 0:00
Report Date: 05/16/08 08:48

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.215	0.164	0.229	0.091	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:43	KH	23.41%
U-235	0.021	0.090	0.191	0.068	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:43	KH	23.41%
U-238	0.189	0.207	0.336	0.144	pCi/L	ARS-026/Eichrom ACW-03-15	5/6/08 19:43	KH	23.41%

NOTES: The tracer recovery fell outside the acceptance criteria biased low. The sample activity has low results and natural occurring Uranium; therefore, results are being reported per technical review.


Project Manager Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-08-00772

Date Received: 04/28/08

Laboratory Control Sample Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Percent Recovery (%)	LCS Acceptance Range
ARS1-808-01084	LCS	U-238	16.501	2.019	0.02377	16.824		pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	98	75%-125%

Blank Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date/Time	Analysis Technician
ARS1-808-01084	MBL	U-238	0.047	0.038	0.05479	NA	U	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH
ARS1-808-01084	MBL	U-235	0.000	0.019	0.04559	NA	U	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH
ARS1-808-01084	MBL	U-238	0.008	0.043	0.08039	NA	U	pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH

RER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1 s)	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	RER	RER Acceptance Range
ARS1-808-01084	LCSD	U-238	16.501	2.0191	16.784824	2.055271		pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	0.07	< 1

DER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1 s)	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	DER	DER Acceptance Range
ARS1-808-01084	LCSD	U-238	16.501	2.0191	16.784824	2.055271		pCi/L	ARS-026/Eichrom ACW-03-15	5/2/08 21:36	KH	0.20	< 3

Benjamin L. Meigs
Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the

LELAP Certificate # 30658

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Notes:

Comments:

- 1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected.

Method References:

- 1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for Examination of Water and Waste Water, 18th, 1992.
- 3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
- 4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300

Definitions:

- | | | |
|-------|-----------------|--|
| 1.0) | BDL | Analyte not detected because the value was below the detection limit. |
| 2.0) | ND | Not detected above the detection limit. |
| 3.0) | Detection Limit | The minimum amount of the analyte that ARS can detect utilizing the specific analysis. |
| 4.0) | B | Method Blank |
| 5.0) | D | Method Duplicate |
| 6.0) | MS | Matrix Spike |
| 7.0) | S | Spike |
| 8.0) | RS | Reference Spike |
| 9.0) | *SC | Subcontracted out to another qualified laboratory |
| 10.0) | NR | Not Referenced |
| 11.0) | N/A | Not Applicable |
| 12.0) | * | Reported as a calculated value |
| 13.0) | ** | False Positive due to interference from <u>Bi-214</u> |

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Cert# 30658

NELAP Cert# E87558

SPL, Inc.

8880 Interchange Drive

Houston, TX 77054-2512
(713) 660-0901

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Afton
American Radiation Services, Inc.
1726 Wooddale Court

TEL: (800) 401-4277
FAX:

Baton Rouge, LA 70806

Accl #:

24-Apr-08

Sample ID	Client Sample	Matrix	Collection Date	Due Date	Requested Tests	
					MISC	
08041378-01E	SVE-1	Water	04/22/08 8:10	05/02/08	1	
08041378-02E	IW-2	Water	04/22/08 9:05	05/02/08	1	
08041378-03E	IW-3	Water	04/22/08 9:45	05/02/08	1	
08041378-04E	IW-4	Water	04/22/08 10:25	05/02/08	1	
08041378-05E	IW-5	Water	04/22/08 11:00	05/02/08	1	
08041378-07E	MW-13	Water	04/22/08 14:20	05/02/08	1	
08041378-08E	Duplicate-01	Water	04/22/08 0:00	05/02/08	1	
08041378-09E	EW-2	Water	04/22/08 16:15	05/02/08	1	

Comments:

Please analyze samples for Uranium on a 10 day TAT. Email final signed report with copy of coc to bagarwal@spl-inc.com. Contact Bethany Agarwal with any questions. 713-660-0901

Relinquished by: 	Date/Time: April 23, 08 16:44
Received by: 	Date/Time: 4/28/08 11:15
Relinquished by:	Received by:



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

08071376

Report To: Tetra Tech Greg Pope 1703 W Industrial Avenue Midland TX 79701- ph: (432) 686-8081 fax:	Project Name: COP Line NM1-1 Site: Hobbs, NM Site Address: PO Number: 4509519834 State: New Mexico State Cert. No.: Date Reported: 8/19/2008
---	---

This Report Contains A Total Of 26 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

8/19/2008

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Conoco Phillips

Certificate of Analysis Number:
08071376

Report To: Tetra Tech Greg Pope 1703 W Industrial Avenue Midland TX 79701- ph: (432) 686-8081 fax:	Project Name: COP Line NM1-1 Site: Hobbs, NM Site Address: PO Number: 4509519834 State: New Mexico State Cert. No.: Date Reported: 8/19/2008
---	---

Sample ID "Trip blank" was received, however no analyses was requested on the chain of custody. An extra set of trip blanks were also received not listed on the chain of custody. Per your request, SPL, Inc. analyzed both sets of trip blanks for Purgeable Aromatics by SW846 Method 8021B.

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 82099 for the Diesel Range Organics analysis by SW846 Method 8015B. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

An Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: R247420 for the Gasoline Range Organics analysis by SW846 Method 8015B. A Laboratory Control Sample (LCS) and was analyzed with the analytical batch and serves as the batch quality control (QC).

Your sample ID "SVE-1" (SPL ID: 08071376-01) was randomly selected for use in SPL's quality control program for the Ion Chromatography analysis by EPA Method 300.0. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Chloride (Batch ID: R246534A) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Bethany A. Agarwal
Senior Project Manager

08071376 Page 1

8/19/2008

Date

Test results meet all requirements of NELAC, unless specified in the narrative.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

08071376

Report To: Tetra Tech
Greg Pope
1703 W Industrial Avenue

Midland
TX

79701-

ph: (432) 686-8081

fax: (432) 686-8085

Fax To:

Project Name: COP Line NM1-1

Site: Hobbs, NM

Site Address:

PO Number: 4509519834

State: New Mexico

State Cert. No.:

Date Reported: 8/19/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SVE-1	08071376-01	Water	7/22/2008 8:30:00 AM	7/23/2008 9:30:00 AM		☐
IW-2	08071376-02	Water	7/22/2008 8:59:00 AM	7/23/2008 9:30:00 AM		☐
IW-3	08071376-03	Water	7/22/2008 9:25:00 AM	7/23/2008 9:30:00 AM		☐
IW-4	08071376-04	Water	7/22/2008 9:53:00 AM	7/23/2008 9:30:00 AM		☐
IW-5	08071376-05	Water	7/22/2008 11:35:00 AM	7/23/2008 9:30:00 AM		☐
IW-7	08071376-06	Water	7/22/2008 1:02:00 PM	7/23/2008 9:30:00 AM		☐
MW-13	08071376-07	Water	7/22/2008 1:27:00 PM	7/23/2008 9:30:00 AM		☐
EVS	08071376-08	Water	7/22/2008 2:00:00 PM	7/23/2008 9:30:00 AM		☐
D	08071376-09	Water	7/22/2008	7/23/2008 9:30:00 AM		☐
Trip Blank 1	08071376-10	Water	7/22/2008	7/23/2008 9:30:00 AM		☐
TRIP BLANK 2	08071376-11	Water	7/22/2008	7/23/2008 9:30:00 AM		☐

8/19/2008

Bethany A. Agarwal
Senior Project Manager

Date

Richard R. Reed
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SVE-1

Collected: 07/22/2008 8:30

SPL Sample ID: 08071376-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	ND		0.1	1	07/31/08 19:26	NW	4603779
Surr: n-Pentacosane	56.8		% 20-150	1	07/31/08 19:26	NW	4603779
Prep Method	Prep Date	Prep Initials	Prep Factor				
SW3510C	07/26/2008 10:55	N_M	1.00				
GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	ND		0.1	1	07/28/08 21:30	EMB	4596553
Surr: 1,4-Difluorobenzene	96.2		% 60-155	1	07/28/08 21:30	EMB	4596553
Surr: 4-Bromofluorobenzene	116		% 50-158	1	07/28/08 21:30	EMB	4596553
ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	124		5	10	07/28/08 16:39	A_E	4596402
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	07/26/08 0:41	EMB	4594358
Toluene	ND		1	1	07/26/08 0:41	EMB	4594358
Ethylbenzene	ND		1	1	07/26/08 0:41	EMB	4594358
m,p-Xylene	ND		1	1	07/26/08 0:41	EMB	4594358
o-Xylene	ND		1	1	07/26/08 0:41	EMB	4594358
Xylenes, Total	ND		1	1	07/26/08 0:41	EMB	4594358
Surr: 1,4-Difluorobenzene	98.7		% 39-163	1	07/26/08 0:41	EMB	4594358
Surr: 4-Bromofluorobenzene	101		% 57-157	1	07/26/08 0:41	EMB	4594358

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-2

Collected: 07/22/2008 8:59

SPL Sample ID: 08071376-02

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/L		
Diesel Range Organics (C10-C28)	77		5	50	07/31/08 21:20	NW	4603783
Surr: n-Pentacosane	D	*	% 20-150	50	07/31/08 21:20	NW	4603783

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/26/2008 10:55	N_M	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/L		
Gasoline Range Organics	1.9		0.1	1	07/28/08 21:57	EMB	4596660
Surr: 1,4-Difluorobenzene	101		% 60-155	1	07/28/08 21:57	EMB	4596660
Surr: 4-Bromofluorobenzene	177%MI	*	% 50-158	1	07/28/08 21:57	EMB	4596660

ION CHROMATOGRAPHY			MCL	E300.0	Units: mg/L		
Chloride	74.1		5	10	07/28/08 17:28	A_E	4596405

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND		1	1	07/28/08 21:57	EMB	4597715
Toluene	1.2		1	1	07/28/08 21:57	EMB	4597715
Ethylbenzene	2		1	1	07/28/08 21:57	EMB	4597715
m,p-Xylene	4.4		1	1	07/28/08 21:57	EMB	4597715
o-Xylene	4.3		1	1	07/28/08 21:57	EMB	4597715
Xylenes, Total	8.7		1	1	07/28/08 21:57	EMB	4597715
Surr: 1,4-Difluorobenzene	98.8		% 39-163	1	07/28/08 21:57	EMB	4597715
Surr: 4-Bromofluorobenzene	128		% 57-157	1	07/28/08 21:57	EMB	4597715

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-3

Collected: 07/22/2008 9:25

SPL Sample ID: 08071376-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	82		5	50	07/31/08 21:42	NW	4603784
Surr: n-Pentacosane	D	*	% 20-150	50	07/31/08 21:42	NW	4603784
Prep Method	Prep Date	Prep Initials	Prep Factor				
SW3510C	07/26/2008 10:55	N_M	1.00				
GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.28		0.1	1	07/28/08 22:25	EMB	4596555
Surr: 1,4-Difluorobenzene	104		% 60-155	1	07/28/08 22:25	EMB	4596555
Surr: 4-Bromofluorobenzene	133		% 50-158	1	07/28/08 22:25	EMB	4596555
ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	79.5		5	10	07/28/08 17:44	A_E	4596406
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	07/28/08 22:25	EMB	4597716
Toluene	ND		1	1	07/28/08 22:25	EMB	4597716
Ethylbenzene	ND		1	1	07/28/08 22:25	EMB	4597716
m,p-Xylene	1.2		1	1	07/28/08 22:25	EMB	4597716
o-Xylene	ND		1	1	07/28/08 22:25	EMB	4597716
Xylenes, Total	1.2		1	1	07/28/08 22:25	EMB	4597716
Surr: 1,4-Difluorobenzene	99.5		% 39-163	1	07/28/08 22:25	EMB	4597716
Surr: 4-Bromofluorobenzene	107		% 57-157	1	07/28/08 22:25	EMB	4597716

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-4

Collected: 07/22/2008 9:53

SPL Sample ID: 08071376-04

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	55		5	50	07/31/08 22:03	NW	4603785
Surr: n-Pentacosane	D	*	% 20-150	50	07/31/08 22:03	NW	4603785

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/26/2008 10:55	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.32		0.1	1	07/28/08 22:53	EMB	4596556
Surr: 1,4-Difluorobenzene	119		% 60-155	1	07/28/08 22:53	EMB	4596556
Surr: 4-Bromofluorobenzene	129		% 50-158	1	07/28/08 22:53	EMB	4596556

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	46.7		5	10	07/28/08 18:01	A_E	4596407

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	07/28/08 22:53	EMB	4597717
Toluene	ND		1	1	07/28/08 22:53	EMB	4597717
Ethylbenzene	ND		1	1	07/28/08 22:53	EMB	4597717
m,p-Xylene	1.1		1	1	07/28/08 22:53	EMB	4597717
o-Xylene	ND		1	1	07/28/08 22:53	EMB	4597717
Xylenes, Total	1.1		1	1	07/28/08 22:53	EMB	4597717
Surr: 1,4-Difluorobenzene	101		% 39-163	1	07/28/08 22:53	EMB	4597717
Surr: 4-Bromofluorobenzene	107		% 57-157	1	07/28/08 22:53	EMB	4597717

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-5

Collected: 07/22/2008 11:35

SPL Sample ID: 08071376-05

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	66		5	50	07/31/08 22:25	NW	4603786
Surr: n-Pentacosane	D	*	% 20-150	50	07/31/08 22:25	NW	4603786

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/26/2008 10:55	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.95		0.1	1	07/28/08 23:20	EMB	4596557
Surr: 1,4-Difluorobenzene	120		% 60-155	1	07/28/08 23:20	EMB	4596557
Surr: 4-Bromofluorobenzene	161%MI	*	% 50-158	1	07/28/08 23:20	EMB	4596557

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	111		5	10	07/28/08 18:17	A_E	4596408

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	160		1	1	07/28/08 23:20	EMB	4597718
Toluene	1.6		1	1	07/28/08 23:20	EMB	4597718
Ethylbenzene	1.5		1	1	07/28/08 23:20	EMB	4597718
m,p-Xylene	2.1		1	1	07/28/08 23:20	EMB	4597718
o-Xylene	ND		1	1	07/28/08 23:20	EMB	4597718
Xylenes, Total	2.1		1	1	07/28/08 23:20	EMB	4597718
Surr: 1,4-Difluorobenzene	102		% 39-163	1	07/28/08 23:20	EMB	4597718
Surr: 4-Bromofluorobenzene	111		% 57-157	1	07/28/08 23:20	EMB	4597718

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-7

Collected: 07/22/2008 13:02

SPL Sample ID: 08071376-06

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	70		5	50	07/31/08 22:46	NW	4603787
Surr: n-Pentacosane	D	*	% 20-150	50	07/31/08 22:46	NW	4603787

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/26/2008 10:55	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	4.4		0.1	1	07/31/08 15:19	EMB	4604282
Surr: 1,4-Difluorobenzene	106		% 60-155	1	07/31/08 15:19	EMB	4604282
Surr: 4-Bromofluorobenzene	393 MI	*	% 50-158	1	07/31/08 15:19	EMB	4604282

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	72.7		5	10	07/28/08 18:34	A_E	4596409

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	07/29/08 2:07	EMB	4597721
Toluene	ND		1	1	07/29/08 2:07	EMB	4597721
Ethylbenzene	ND		1	1	07/29/08 2:07	EMB	4597721
m,p-Xylene	1.8		1	1	07/29/08 2:07	EMB	4597721
o-Xylene	ND		1	1	07/29/08 2:07	EMB	4597721
Xylenes, Total	1.8		1	1	07/29/08 2:07	EMB	4597721
Surr: 1,4-Difluorobenzene	99.2		% 39-163	1	07/29/08 2:07	EMB	4597721
Surr: 4-Bromofluorobenzene	110		% 57-157	1	07/29/08 2:07	EMB	4597721

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-13

Collected: 07/22/2008 13:27

SPL Sample ID: 08071376-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/L		
Diesel Range Organics (C10-C28)	0.92		0.1	1	07/31/08 19:54	NW	4603780
Surr: n-Pentacosane	110		% 20-150	1	07/31/08 19:54	NW	4603780

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/26/2008 10:55	N_M	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/L		
Gasoline Range Organics	14		2.5	25	08/01/08 11:56	EMB	4605282
Surr: 1,4-Difluorobenzene	103		% 60-155	25	08/01/08 11:56	EMB	4605282
Surr: 4-Bromofluorobenzene	107		% 50-158	25	08/01/08 11:56	EMB	4605282

ION CHROMATOGRAPHY			MCL	E300.0	Units: mg/L		
Chloride	33.5		2	4	07/28/08 18:50	A_E	4596410

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	5500		25	25	07/26/08 3:55	EMB	4594360
Toluene	ND		25	25	07/26/08 3:55	EMB	4594360
Ethylbenzene	400		25	25	07/26/08 3:55	EMB	4594360
m,p-Xylene	ND		25	25	07/26/08 3:55	EMB	4594360
o-Xylene	ND		25	25	07/26/08 3:55	EMB	4594360
Xylenes, Total	ND		25	25	07/26/08 3:55	EMB	4594360
Surr: 1,4-Difluorobenzene	103		% 39-163	25	07/26/08 3:55	EMB	4594360
Surr: 4-Bromofluorobenzene	102		% 57-157	25	07/26/08 3:55	EMB	4594360

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID EW-2

Collected: 07/22/2008 14:00

SPL Sample ID: 08071376-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	31		5	50	07/31/08 23:08	NW	4603788
Surr: n-Pentacosane	D	*	% 20-150	50	07/31/08 23:08	NW	4603788

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/26/2008 10:55	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	6.1		0.5	5	08/01/08 12:23	EMB	4605284
Surr: 1,4-Difluorobenzene	117		% 60-155	5	08/01/08 12:23	EMB	4605284
Surr: 4-Bromofluorobenzene	123		% 50-158	5	08/01/08 12:23	EMB	4605284

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	123		5	10	07/28/08 19:40	A_E	4596413

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	1400		5	5	07/29/08 3:02	EMB	4597723
Toluene	ND		5	5	07/29/08 3:02	EMB	4597723
Ethylbenzene	230		5	5	07/29/08 3:02	EMB	4597723
m,p-Xylene	240		5	5	07/29/08 3:02	EMB	4597723
o-Xylene	ND		5	5	07/29/08 3:02	EMB	4597723
Xylenes, Total	240		5	5	07/29/08 3:02	EMB	4597723
Surr: 1,4-Difluorobenzene	97.9		% 39-163	5	07/29/08 3:02	EMB	4597723
Surr: 4-Bromofluorobenzene	110		% 57-157	5	07/29/08 3:02	EMB	4597723

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID DUP-1

Collected: 07/22/2008 0:00

SPL Sample ID: 08071376-09

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/L		
Diesel Range Organics (C10-C28)	0.11		0.1	1	07/31/08 20:15	NW	4603781
Surr: n-Pentacosane	61.4		% 20-150	1	07/31/08 20:15	NW	4603781

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/26/2008 10:55	N_M	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/L		
Gasoline Range Organics	ND		0.1	1	07/31/08 16:43	EMB	4604265
Surr: 1,4-Difluorobenzene	99.6		% 60-155	1	07/31/08 16:43	EMB	4604265
Surr: 4-Bromofluorobenzene	100		% 50-158	1	07/31/08 16:43	EMB	4604265

ION CHROMATOGRAPHY			MCL	E300.0	Units: mg/L		
Chloride	124		5	10	07/28/08 19:56	A_E	4596414

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND		1	1	07/26/08 1:08	EMB	4594359
Toluene	ND		1	1	07/26/08 1:08	EMB	4594359
Ethylbenzene	ND		1	1	07/26/08 1:08	EMB	4594359
m,p-Xylene	ND		1	1	07/26/08 1:08	EMB	4594359
o-Xylene	ND		1	1	07/26/08 1:08	EMB	4594359
Xylenes, Total	ND		1	1	07/26/08 1:08	EMB	4594359
Surr: 1,4-Difluorobenzene	99.1		% 39-163	1	07/26/08 1:08	EMB	4594359
Surr: 4-Bromofluorobenzene	102		% 57-157	1	07/26/08 1:08	EMB	4594359

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Trip Blank 1

Collected: 07/22/2008 0:00

SPL Sample ID: 08071376-10

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND		1	1	07/26/08 0:13	EMB	4594357
Toluene	ND		1	1	07/26/08 0:13	EMB	4594357
Ethylbenzene	ND		1	1	07/26/08 0:13	EMB	4594357
m,p-Xylene	ND		1	1	07/26/08 0:13	EMB	4594357
o-Xylene	ND		1	1	07/26/08 0:13	EMB	4594357
Xylenes, Total	ND		1	1	07/26/08 0:13	EMB	4594357
Surr: 1,4-Difluorobenzene	99.1		% 39-163	1	07/26/08 0:13	EMB	4594357
Surr: 4-Bromofluorobenzene	101		% 57-157	1	07/26/08 0:13	EMB	4594357

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TRIP BLANK 2

Collected: 07/22/2008 0:00

SPL Sample ID: 08071376-11

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND		1	1	07/31/08 17:11	CLJ	4611288
Toluene	ND		1	1	07/31/08 17:11	CLJ	4611288
Ethylbenzene	ND		1	1	07/31/08 17:11	CLJ	4611288
m,p-Xylene	ND		1	1	07/31/08 17:11	CLJ	4611288
o-Xylene	ND		1	1	07/31/08 17:11	CLJ	4611288
Xylenes, Total	ND		1	1	07/31/08 17:11	CLJ	4611288
Surr: 1,4-Difluorobenzene	100		% 39-163	1	07/31/08 17:11	CLJ	4611288
Surr: 4-Bromofluorobenzene	101		% 57-157	1	07/31/08 17:11	CLJ	4611288

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 08071376
Lab Batch ID: 82099

Method Blank

RunID: HP_Z_080729E-4603776 Units: mg/L
Analysis Date: 07/30/2008 9:32 Analyst: NW
Preparation Date: 07/26/2008 10:55 Prep By: N_M Method SW3510C

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	0.10
Surr: n-Pentacosane	76.2	20-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08071376-01C	SVE-1
08071376-02C	IW-2
08071376-03C	IW-3
08071376-04C	IW-4
08071376-05C	IW-5
08071376-06C	IW-7
08071376-07C	MW-13
08071376-08C	EW-2
08071376-09C	DUP-1

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_Z_080729E-4603772 Units: mg/L
Analysis Date: 07/29/2008 11:59 Analyst: NW
Preparation Date: 07/26/2008 10:55 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	2.00	2.10	105	2.00	2.37	118	12.3	20	21	130
Surr: n-Pentacosane	0.0500	0.0475	95.0	0.0500	0.0620	124	26.5	30	20	150

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08071376
Lab Batch ID: R246390

Method Blank

RunID: HP_N_080725A-4594779 Units: ug/L
Analysis Date: 07/25/2008 13:06 Analyst: EMB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08071376-01A	SVE-1
08071376-07A	MW-13
08071376-09A	DUP-1
08071376-10A	Trip Blank 1

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	99.4	39-163
Surr: 4-Bromofluorobenzene	101.4	57-157

Laboratory Control Sample (LCS)

RunID: HP_N_080725A-4594339 Units: ug/L
Analysis Date: 07/25/2008 12:11 Analyst: EMB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.7	98.5	70	130
Ethylbenzene	20.0	19.3	96.4	66	132
Toluene	20.0	19.5	97.6	69	133
m,p-Xylene	40.0	38.6	96.5	67	136
o-Xylene	20.0	18.8	93.8	67	133
Xylenes, Total	60.0	57.4	95.6	67	136
Surr: 1,4-Difluorobenzene	100	99	99.0	39	163
Surr: 4-Bromofluorobenzene	100	101	101	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08071441-03
RunID: HP_N_080725A-4594353 Units: ug/L
Analysis Date: 07/25/2008 21:26 Analyst: EMB

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08071376
Lab Batch ID: R246390

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20.6	103	20	20.8	104	0.879	26	40	165
Ethylbenzene	ND	20	16.4	81.9	20	16.6	83.1	1.45	34	51	156
Toluene	ND	20	16.5	82.5	20	16.6	83.2	0.769	25	58	153
m,p-Xylene	ND	40	32.2	80.4	40	32.7	81.7	1.50	27	51	155
o-Xylene	ND	20	15.8	79.1	20	16.1	80.4	1.64	25	58	151
Xylenes, Total	ND	60	48.0	80.0	60	48.8	81.2	1.55	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	101	101	100	101	101	0.0557	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	102	102	100	102	102	0.121	30	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 08071376
Lab Batch ID: R246542

Method Blank

RunID: HP_N_080728A-4596540 Units: mg/L
Analysis Date: 07/28/2008 12:13 Analyst: EMB

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	95.8	60-155
Surr: 4-Bromofluorobenzene	110.5	50-158

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08071376-01B	SVE-1
08071376-02B	IW-2
08071376-03B	IW-3
08071376-04B	IW-4
08071376-05B	IW-5

Laboratory Control Sample (LCS)

RunID: HP_N_080728A-4596539 Units: mg/L
Analysis Date: 07/28/2008 11:17 Analyst: EMB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.994	99.4	42	136
Surr: 1,4-Difluorobenzene	0.100	0.103	103	60	155
Surr: 4-Bromofluorobenzene	0.100	0.111	111	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08071376-01
RunID: HP_N_080728A-4596551 Units: mg/L
Analysis Date: 07/28/2008 19:11 Analyst: EMB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.691	69.1	1	0.680	68.0	1.62	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.101	101	0.1	0.101	101	0.197	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.115	115	0.1	0.114	114	0.787	30	50	158

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08071376
Lab Batch ID: R246603

Method Blank

RunID: HP_N_080728C-4597710 Units: ug/L
Analysis Date: 07/28/2008 12:13 Analyst: EMB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08071376-02A	IW-2
08071376-03A	IW-3
08071376-04A	IW-4
08071376-05A	IW-5
08071376-06A	IW-7
08071376-08A	EW-2

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	98.7	39-163
Surr: 4-Bromofluorobenzene	105.6	57-157

Laboratory Control Sample (LCS)

RunID: HP_N_080728C-4597709 Units: ug/L
Analysis Date: 07/28/2008 10:50 Analyst: EMB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.2	101	70	130
Ethylbenzene	20.0	20.0	99.8	66	132
Toluene	20.0	19.7	98.5	69	133
m,p-Xylene	40.0	40.0	99.9	67	136
o-Xylene	20.0	19.6	97.9	67	133
Xylenes, Total	60.0	59.6	99.3	67	136
Surr: 1,4-Difluorobenzene	100	97.9	97.9	39	163
Surr: 4-Bromofluorobenzene	100	105	105	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08071376-02
RunID: HP_N_080728C-4597713 Units: ug/L
Analysis Date: 07/28/2008 20:06 Analyst: EMB

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08071376
Lab Batch ID: R246603

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20.4	102	20	19.2	95.8	6.48	26	40	165
Ethylbenzene	1.98	20	17.1	75.4	20	15.1	65.4	12.5	34	51	156
Toluene	1.24	20	19.0	88.9	20	17.8	82.6	6.81	25	58	153
m,p-Xylene	4.43	40	34.0	73.9	40	30.7	65.7	10.1	27	51	155
o-Xylene	4.27	20	17.3	65.2	20	16.1	59.2	7.12	25	58	151
Xylenes, Total	8.70	60	51.3	71.0	60	46.8	63.6	9.12	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	98.9	98.9	100	98.7	98.7	0.194	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	107	107	100	109	109	1.40	30	57	157

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 08071376
Lab Batch ID: R246990

Method Blank

RunID: HP_N_080731B-4604259 Units: mg/L

Analysis Date: 07/31/2008 11:37 Analyst: EMB

Preparation Date: 07/31/2008 11:37 Prep By: Method SW5030B

Samples in Analytical Batch:

Lab Sample ID

08071376-06B

08071376-09B

Client Sample ID

IW-7

DUP-1

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	100.5	60-155
Surr: 4-Bromofluorobenzene	102.6	50-158

Laboratory Control Sample (LCS)

RunID: HP_N_080731B-4604258 Units: mg/L

Analysis Date: 07/31/2008 10:42 Analyst: EMB

Preparation Date: 07/31/2008 10:42 Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.893	89.3	42	136
Surr: 1,4-Difluorobenzene	0.100	0.105	105	60	155
Surr: 4-Bromofluorobenzene	0.100	0.104	104	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08071567-09

RunID: HP_N_080731B-4604261 Units: mg/L

Analysis Date: 07/31/2008 12:33 Analyst: EMB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.922	92.2	1	0.903	90.3	2.10	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.106	106	0.1	0.106	106	0.755	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.104	104	0.1	0.104	104	0.192	30	50	158

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 08071376
Lab Batch ID: R247038

Method Blank

RunID: HP_N_080731G-4605281 Units: mg/L
Analysis Date: 08/01/2008 11:00 Analyst: EMB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08071376-07B	MW-13
08071376-08B	EW-2

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	99.1	60-155
Surr: 4-Bromofluorobenzene	104.9	50-158

Laboratory Control Sample (LCS)

RunID: HP_N_080731G-4605279 Units: mg/L
Analysis Date: 08/01/2008 10:04 Analyst: EMB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.815	81.5	42	136
Surr: 1,4-Difluorobenzene	0.100	0.104	104	60	155
Surr: 4-Bromofluorobenzene	0.100	0.105	105	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08071376-08
RunID: HP_N_080731G-4605285 Units: mg/L
Analysis Date: 08/01/2008 12:51 Analyst: EMB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	6.14	5	9.32	63.7	5	8.90	55.3	4.59	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.5	0.59	118	0.5	0.617	123	4.43	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.5	0.648	130	0.5	0.644	129	0.634	30	50	158

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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8/19/2008 2:50:22 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08071376
Lab Batch ID: R247420

Method Blank

Samples in Analytical Batch:

RunID: HP_N_0807311-4611283 Units: ug/L
Analysis Date: 07/31/2008 11:09 Analyst: CLJ

Lab Sample ID 08071376-11A
Client Sample ID TRIP BLANK 2

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	99.6	39-163
Surr: 4-Bromofluorobenzene	101.0	57-157

Laboratory Control Sample (LCS)

RunID: HP_N_0807311-4611282 Units: ug/L
Analysis Date: 07/31/2008 10:14 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.9	94.7	70	130
Ethylbenzene	20.0	18.5	92.7	66	132
Toluene	20.0	18.7	93.3	69	133
m,p-Xylene	40.0	37.1	92.7	67	136
o-Xylene	20.0	18.1	90.4	67	133
Xylenes,Total	60.0	55.2	92.0	67	136
Surr: 1,4-Difluorobenzene	100	99.7	99.7	39	163
Surr: 4-Bromofluorobenzene	100	101	101	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 08071376
Lab Batch ID: R246534A

Method Blank

RunID: IC1_080728C-4596398 Units: mg/L
Analysis Date: 07/28/2008 15:33 Analyst: A_E

Analyte	Result	Rep Limit
Chloride	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08071376-01D	SVE-1
08071376-02D	IW-2
08071376-03D	IW-3
08071376-04D	IW-4
08071376-05D	IW-5
08071376-06D	IW-7
08071376-07D	MW-13
08071376-08D	EW-2
08071376-09D	DUP-1

Laboratory Control Sample (LCS)

RunID: IC1_080728C-4596399 Units: mg/L
Analysis Date: 07/28/2008 15:49 Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	9.572	95.72	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08071376-01
RunID: IC1_080728C-4596403 Units: mg/L
Analysis Date: 07/28/2008 16:55 Analyst: A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	123.7	100	245.7	122.0 *	100	245.9	122.2 *	0.06347	20	80	120

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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8/19/2008 2:50:23 PM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	08071376	Received By:	L_C
Date and Time Received:	7/23/2008 9:30:00 AM	Carrier name:	Fedex-Standard Overnight
Temperature:	4.0°C	Chilled by:	Water Ice

- | | | | |
|--|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| 3. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Yes ☒ | No ☐ | |
| 5. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 6. Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| 7. Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| 8. Sample containers intact? | Yes ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 10. All samples received within holding time? | Yes ☒ | No ☐ | |
| 11. Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | |
| 12. Water - VOA vials have zero headspace? | Yes ☒ | No ☐ | VOA Vials Not Present ☐ |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes ☒ | No ☐ | Not Applicable ☐ |

*VOA Preservation Checked After Sample Analysis

SPL Representative: Rodriguez, Alisha Christine
Client Name Contacted: Greg Pope w/Tetra Tech

Contact Date & Time: 8/5/2008 2:17:00 PM

Non Conformance Issues: No analyses requested on the chain of custody for the trip blank. Extra set of trip blanks also received.
Client Instructions: Analyze both trip blanks for 8021_BTEX per client.



Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number:

08071376

Attention: Greg Pope

Phone: 432-686-8081

email: gwpope57@aol.com

Address: 1703 W Industrial Avenue

City: Midland

State: TX

Zip Code: 79701

Project Name: Line NM1-1

P.O. Number:

Sampled By:

Signature

[Signature]

print 14-13-00/LS

Sample ID	Collected		Sample Type		Matrix	Bottle Type	Preservative Type	# of Containers	BTEX-8021	TPH-GRO-8015	TPH-DRO-8015	CI-300						
	Date	Time	Comp	Grab														
SVE-1	7-22-08	08:30		X	X	1	3	3	X									
SVE-1		08:30				1	3	3		X								
SVE-1		08:30				4	3	2			X							
SVE-1		08:30				3	1	1				X						
IW-2		08:59				1	3	3	X									
IW-2		08:59				1	3	3		X								
IW-2		08:59				4	3	2			X							
IW-2		08:59				3	1	1				X						
IW-3		09:25				1	3	3	X									
IW-3		09:25				1	3	3										

Turnaround Time Requirements

24 hr () 48 hr ()

72 hr () 5 wday ()

10 wday - Standard (X)

Remarks:

Bottle Types:

Preservative Types:

1: 3/40ml Vials 2: 1L Glass 3: 1L Plastic 4: 1L Amber Glass 5: 8oz Plastic

1: NONE 2: HNO3 3: HCL 4: H2SO4

Infect? (Y) or (N)

Temperature: 4.0°C

Relinquished by Sampler:

Relinquished by:

Date

Time

Received by:

Date

Time

Received by SPL Inc.

Date

Time

7/23/08

7:30

Page 1 of 1



Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number:

08071576

Attention: Greg Pope

Phone: 432-686-8081 Email: gwpope57@aol.com

Address: 1703 W Industrial Avenue

City: Midland State: TX Zip Code: 79701

Project Name: Line NM1-1

P.O. Number:

Sampled By: *[Signature]*

[Signature] print

Bottle Type

Sample ID	Collected Date	Time	Sample Type	Comp	Grab	Water	Matrix	Soil
-----------	----------------	------	-------------	------	------	-------	--------	------

IW-7	7-22-07	13:02		X		X			1	3	3	X							
IW-7		13:02							1	3	3		X						
IW-7		13:02							4	2	2			X					
IW-7		13:02							3	1	1				X				
MW-13		13:27							1	3	3	X							
MW-13		13:27							1	3	3		X						
MW-13		13:27							4	3	2			X					
MW-13		13:27							3	1	1				X				
EW-2		14:00							1	3	3	X							
EW-2		14:00							1	3	3		X						

Turnaround Time Requirements

Remarks:

24 hr) 48 hr)
72 hr) 5 wday)
10 wday - Standard)
Bottle Types: 1. 3/40ml Vials 2. 1L Glass 3. 1L Plastic 4. 1L Amber Glass 5. 8oz Plastic
Preservative Types: 1: NONE 2: HNO3 3: HCl 4: H2SO4

Relinquished by Sampler

Relinquished by:

[Signature]

Date: 7/24/08 Time: 1500

Received by:

Relinquished by:

Date

Time

Received by SPL, Inc.

7/23/08

9:30

[Signature]



Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number:

Attention: ~~Charles Smith~~ Greg Pope

08071376

Phone: 432-686-8081

email: ~~Charles.Smith@tetra-tech.com~~

Address: 1703 W Industrial Avenue

email: ~~greg.pope@tetra-tech.com~~

City: Midland

State: TX

Zip Code: 79701

Project Name: ~~SPL University Line MR-17.75~~

Line NM 1-1

P.O. Number:

Sampled By:

[Signature]

[Signature] print

Bottle Type

Preservative Type

of Containers

TCLP BTEX-8260

TPH TX1005

BTEX-8021

TPH-GRO-8015

TPH-DRO-8015

CI-300

Requested Analysis

Sample ID

Date

Time

Collected

Sample Type

Comp

Grab

Water

Soil

Matrix

EW-2

7-22-08

14:00

X

X

4

3

2

X

X

X

X

X

X

EW-2

14:00

X

X

3

1

1

X

X

X

X

X

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DUP-1

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Tip blank

7-22-08

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X

Turnaround Time Requirements

Remarks:

24 hr () 48 hr ()

72 hr () 5 wday ()

10 wday - Standard (X)

Bottle Types:

Preservative Types:

1: 3/40ml Vials

2: 1L Glass

3: 1L Plastic

4: 1L Amber Glass

5: 8oz Plastic

Intact?

Y or N

Temperature:

4.0°C

Relinquished by Sampler:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

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Received by:

7/23/08

9:30

Received by SPL Inc.

[Signature]

Date:

Time:

Received by:

Date:

Time:

Received by:



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

08101343

<u>Report To:</u> Tetra Tech Greg Pope 1910 N. Big Spring St Midland TX 79705- ph: (432) 682-4559 fax:	<u>Project Name:</u> COP Line NM1-1 <u>Site:</u> Hobbs, NM <u>Site Address:</u> <u>PO Number:</u> 4509519834 <u>State:</u> New Mexico <u>State Cert. No.:</u> <u>Date Reported:</u> 11/3/2008
---	--

This Report Contains A Total Of 18 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

11/3/2008

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Conoco Phillips

Certificate of Analysis Number:
08101343

Report To: Tetra Tech Greg Pope 1910 N. Big Spring St Midland TX 79705- ph: (432) 682-4559 fax:	Project Name: COP Line NM1-1 Site: Hobbs, NM Site Address: PO Number: 4509519834 State: New Mexico State Cert. No.: Date Reported: 11/3/2008
--	---

A trip blank was received with the sample but was not listed on the chain of custody. Per your email on November 3, 2008, SPL analyzed the trip blank for Purgeable Aromatics by SW846 Method 8021.

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 84784 for the Diesel Range Organics analysis by Method 8015B. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

08101343 Page 1
11/3/2008

Erica Cardenas
Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

08101343

Report To: Tetra Tech
Greg Pope
1910 N. Big Spring St

Midland

TX

79705-

ph: (432) 682-4559

fax: (432) 686-8085

Project Name: COP Line NM1-1

Site: Hobbs, NM

Site Address:

PO Number: 4509519834

State: New Mexico

State Cert. No.:

Date Reported: 11/3/2008

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SVE-1	08101343-01	Water	10/21/2008 8:14:00 AM	10/22/2008 9:30:00 AM	984, 317985, 318	☐
DUP-1	08101343-02	Water	10/21/2008	10/22/2008 9:30:00 AM	317984	☐
DUP-1	08101343-02	Water	10/21/2008	10/22/2008 9:30:00 AM	984, 317985, 318	☐
IW-2	08101343-03	Water	10/21/2008 8:41:00 AM	10/22/2008 9:30:00 AM	317984	☐
IW-2	08101343-03	Water	10/21/2008 8:41:00 AM	10/22/2008 9:30:00 AM	984, 317985, 318	☐
IW-3	08101343-04	Water	10/21/2008 9:02:00 AM	10/22/2008 9:30:00 AM	317984	☐
IW-3	08101343-04	Water	10/21/2008 9:02:00 AM	10/22/2008 9:30:00 AM	984, 317985, 318	☐
IW-3	08101343-05	Water	10/21/2008 9:17:00 AM	10/22/2008 9:30:00 AM	984, 317985, 318	☐
IW-3	08101343-05	Water	10/21/2008 9:17:00 AM	10/22/2008 9:30:00 AM	317985	☐
IW-5	08101343-06	Water	10/21/2008 9:32:00 AM	10/22/2008 9:30:00 AM	984, 317985, 318	☐
IW-5	08101343-06	Water	10/21/2008 9:32:00 AM	10/22/2008 9:30:00 AM	317985	☐
IW-7	08101343-07	Water	10/21/2008 9:49:00 AM	10/22/2008 9:30:00 AM	984, 317985, 318	☐
IW-7	08101343-07	Water	10/21/2008 9:49:00 AM	10/22/2008 9:30:00 AM	317985	☐
EW-2	08101343-08	Water	10/21/2008 10:45:00 AM	10/22/2008 9:30:00 AM	984, 317985, 318	☐
EW-2	08101343-08	Water	10/21/2008 10:45:00 AM	10/22/2008 9:30:00 AM	318058	☐
Trip Blank	08101343-09	Water	10/21/2008	10/22/2008 9:30:00 AM	318058	☐

Erica Cardenas

Erica Cardenas
Project Manager

11/3/2008

Date

Richard R. Reed
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SVE-1

Collected: 10/21/2008 8:14

SPL Sample ID: 08101343-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	ND		0.05	1	11/01/08 0:03	NW	4745944
Surr: n-Pentacosane	76.8		% 20-150	1	11/01/08 0:03	NW	4745944

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	113		5	10	10/27/08 16:33	TW	4738387

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	10/30/08 18:38	CLJ	4744939
Toluene	ND		1	1	10/30/08 18:38	CLJ	4744939
Ethylbenzene	ND		1	1	10/30/08 18:38	CLJ	4744939
m,p-Xylene	ND		1	1	10/30/08 18:38	CLJ	4744939
o-Xylene	ND		1	1	10/30/08 18:38	CLJ	4744939
Xylenes, Total	ND		1	1	10/30/08 18:38	CLJ	4744939
Surr: 1,4-Difluorobenzene	95.4		% 39-163	1	10/30/08 18:38	CLJ	4744939
Surr: 4-Bromofluorobenzene	100		% 57-157	1	10/30/08 18:38	CLJ	4744939

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID DUP-1

Collected: 10/21/2008 0:00

SPL Sample ID: 08101343-02

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	ND		0.05	1	11/01/08 0:34	NW	4745945
Surr: n-Pentacosane	91.2		% 20-150	1	11/01/08 0:34	NW	4745945

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	105		5	10	10/27/08 17:22	TW	4738390

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	10/30/08 20:45	CLJ	4744941
Toluene	ND		1	1	10/30/08 20:45	CLJ	4744941
Ethylbenzene	ND		1	1	10/30/08 20:45	CLJ	4744941
m,p-Xylene	ND		1	1	10/30/08 20:45	CLJ	4744941
o-Xylene	ND		1	1	10/30/08 20:45	CLJ	4744941
Xylenes, Total	ND		1	1	10/30/08 20:45	CLJ	4744941
Surr: 1,4-Difluorobenzene	92.5		% 39-163	1	10/30/08 20:45	CLJ	4744941
Surr: 4-Bromofluorobenzene	99.3		% 57-157	1	10/30/08 20:45	CLJ	4744941

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-2

Collected: 10/21/2008 8:41

SPL Sample ID: 08101343-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	58		2.5	50	10/31/08 21:59	NW	4745964
Surr: n-Pentacosane	D	*	% 20-150	50	10/31/08 21:59	NW	4745964

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	73.8		5	10	10/27/08 17:39	TW	4738391

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	10/31/08 13:06	CLJ	4746872
Toluene	ND		1	1	10/31/08 13:06	CLJ	4746872
Ethylbenzene	ND		1	1	10/31/08 13:06	CLJ	4746872
m,p-Xylene	ND		1	1	10/31/08 13:06	CLJ	4746872
o-Xylene	1.4		1	1	10/31/08 13:06	CLJ	4746872
Xylenes, Total	1.4		1	1	10/31/08 13:06	CLJ	4746872
Surr: 1,4-Difluorobenzene	91.3	%	39-163	1	10/31/08 13:06	CLJ	4746872
Surr: 4-Bromofluorobenzene	99.4	%	57-157	1	10/31/08 13:06	CLJ	4746872

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-3

Collected: 10/21/2008 9:02

SPL Sample ID: 08101343-04

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	0.6		0.05	1	11/01/08 1:05	NW	4745946
Surr: n-Pentacosane	103		% 20-150	1	11/01/08 1:05	NW	4745946

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	73.7		5	10	10/27/08 17:55	TW	4738392

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	10/30/08 19:42	CLJ	4744940
Toluene	ND		1	1	10/30/08 19:42	CLJ	4744940
Ethylbenzene	ND		1	1	10/30/08 19:42	CLJ	4744940
m,p-Xylene	ND		1	1	10/30/08 19:42	CLJ	4744940
o-Xylene	1		1	1	10/30/08 19:42	CLJ	4744940
Xylenes, Total	1		1	1	10/30/08 19:42	CLJ	4744940
Surr: 1,4-Difluorobenzene	93.3		% 39-163	1	10/30/08 19:42	CLJ	4744940
Surr: 4-Bromofluorobenzene	98.2		% 57-157	1	10/30/08 19:42	CLJ	4744940

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-4

Collected: 10/21/2008 9:17

SPL Sample ID: 08101343-05

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	9.8		0.5	10	10/31/08 22:30	NW	4745965
Surr: n-Pentacosane	148		% 20-150	10	10/31/08 22:30	NW	4745965

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	55.1		5	10	10/27/08 18:12	TW	4738393

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	10/31/08 13:38	CLJ	4746911
Toluene	1.3		1	1	10/31/08 13:38	CLJ	4746911
Ethylbenzene	ND		1	1	10/31/08 13:38	CLJ	4746911
m,p-Xylene	1.1		1	1	10/31/08 13:38	CLJ	4746911
o-Xylene	1.5		1	1	10/31/08 13:38	CLJ	4746911
Xylenes, Total	2.6		1	1	10/31/08 13:38	CLJ	4746911
Surr: 1,4-Difluorobenzene	93.9		% 39-163	1	10/31/08 13:38	CLJ	4746911
Surr: 4-Bromofluorobenzene	105		% 57-157	1	10/31/08 13:38	CLJ	4746911

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-5

Collected: 10/21/2008 9:32

SPL Sample ID: 08101343-06

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	22		1	20	10/31/08 23:01	NW	4745966
Surr: n-Pentacosane	D	*	% 20-150	20	10/31/08 23:01	NW	4745966

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY			MCL	E300.0	Units: mg/L		
Chloride	105	5	10	10/27/08 18:28	TW	4738394	

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	230		1	1	10/31/08 14:10	CLJ	4746873
Toluene	1.3		1	1	10/31/08 14:10	CLJ	4746873
Ethylbenzene	ND		1	1	10/31/08 14:10	CLJ	4746873
m,p-Xylene	3.2		1	1	10/31/08 14:10	CLJ	4746873
o-Xylene	ND		1	1	10/31/08 14:10	CLJ	4746873
Xylenes, Total	3.2		1	1	10/31/08 14:10	CLJ	4746873
Surr: 1,4-Difluorobenzene	95.4	%	39-163	1	10/31/08 14:10	CLJ	4746873
Surr: 4-Bromofluorobenzene	105	%	57-157	1	10/31/08 14:10	CLJ	4746873

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-7

Collected: 10/21/2008 9:49

SPL Sample ID: 08101343-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	14		1	20	10/31/08 23:32	NW	4745967
Surr: n-Pentacosane	D	*	% 20-150	20	10/31/08 23:32	NW	4745967

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	69.5		5	10	10/27/08 18:45	TW	4738395

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	10/31/08 8:14	CLJ	4744947
Toluene	ND		1	1	10/31/08 8:14	CLJ	4744947
Ethylbenzene	ND		1	1	10/31/08 8:14	CLJ	4744947
m,p-Xylene	ND		1	1	10/31/08 8:14	CLJ	4744947
o-Xylene	1.1		1	1	10/31/08 8:14	CLJ	4744947
Xylenes, Total	1.1		1	1	10/31/08 8:14	CLJ	4744947
Surr: 1,4-Difluorobenzene	92.3		% 39-163	1	10/31/08 8:14	CLJ	4744947
Surr: 4-Bromofluorobenzene	99.5		% 57-157	1	10/31/08 8:14	CLJ	4744947

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID EW-2

Collected: 10/21/2008 10:45 SPL Sample ID: 08101343-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	19		1	20	11/01/08 0:03	NW	4745968
Surr: n-Pentacosane	D	*	% 20-150	20	11/01/08 0:03	NW	4745968

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/25/2008 9:44	N_M	1.00

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	68.6		5	10	10/27/08 19:01	TW	4738396

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	980		5	5	10/31/08 14:41	CLJ	4746874
Toluene	18		5	5	10/31/08 14:41	CLJ	4746874
Ethylbenzene	360		5	5	10/31/08 14:41	CLJ	4746874
m,p-Xylene	350		5	5	10/31/08 14:41	CLJ	4746874
o-Xylene	17		5	5	10/31/08 14:41	CLJ	4746874
Xylenes, Total	367		5	5	10/31/08 14:41	CLJ	4746874
Surr: 1,4-Difluorobenzene	100		% 39-163	5	10/31/08 14:41	CLJ	4746874
Surr: 4-Bromofluorobenzene	101		% 57-157	5	10/31/08 14:41	CLJ	4746874

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Trip Blank

Collected: 10/21/2008 0:00

SPL Sample ID: 08101343-09

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	10/31/08 7:10	CLJ	4744946
Toluene	ND		1	1	10/31/08 7:10	CLJ	4744946
Ethylbenzene	ND		1	1	10/31/08 7:10	CLJ	4744946
m,p-Xylene	ND		1	1	10/31/08 7:10	CLJ	4744946
o-Xylene	ND		1	1	10/31/08 7:10	CLJ	4744946
Xylenes, Total	ND		1	1	10/31/08 7:10	CLJ	4744946
Total BTEX	ND		1	1	10/31/08 7:10	CLJ	4744946
Surr: 1,4-Difluorobenzene	78.4		% 39-163	1	10/31/08 7:10	CLJ	4744946
Surr: 4-Bromofluorobenzene	96.2		% 57-157	1	10/31/08 7:10	CLJ	4744946

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 08101343
Lab Batch ID: 84784

Method Blank

RunID: HP_Z_081031B-4745941 Units: mg/L
Analysis Date: 10/31/2008 22:30 Analyst: NW
Preparation Date: 10/25/2008 9:44 Prep By: N_M Method SW3510C

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	127.8	20-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101343-01C	SVE-1
08101343-02C	DUP-1
08101343-03C	IW-2
08101343-04C	IW-3
08101343-05C	IW-4
08101343-06C	IW-5
08101343-07C	IW-7
08101343-08C	EW-2

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_Z_081031B-4745942 Units: mg/L
Analysis Date: 10/31/2008 23:01 Analyst: NW
Preparation Date: 10/25/2008 9:44 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics	2.00	1.26	63.2	2.00	1.69	84.7	29.1	43	21	175
Surr: n-Pentacosane	0.0500	0.0712	142	0.100	0.0856	85.6	18.4	43	20	150

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08101343
Lab Batch ID: R255581

Method Blank

RunID: VARD_081030B-4744938 Units: ug/L
Analysis Date: 10/30/2008 18:07 Analyst: CLJ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101343-01A	SVE-1
08101343-02A	DUP-1
08101343-03A	IW-2
08101343-04A	IW-3
08101343-05A	IW-4
08101343-06A	IW-5
08101343-07A	IW-7
08101343-08A	EW-2
08101343-09A	Trip Blank

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Total BTEX	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	93.3	39-163
Surr: 4-Bromofluorobenzene	99.6	57-157

Laboratory Control Sample (LCS)

RunID: VARD_081030B-4744936 Units: ug/L
Analysis Date: 10/30/2008 17:03 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	22.7	113	70	130
Ethylbenzene	20.0	21.6	108	66	132
Toluene	20.0	21.8	109	69	133
m,p-Xylene	40.0	43.4	109	67	136
o-Xylene	20.0	20.6	103	67	133
Total BTEX	120.0	130.1	108.4	66	136
Xylenes, Total	60.0	64.0	107	67	136
Surr: 1,4-Difluorobenzene	100	93	93.0	39	163
Surr: 4-Bromofluorobenzene	100	101	101	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101343-02
RunID: VARD_081030B-4744942 Units: ug/L
Analysis Date: 10/30/2008 21:17 Analyst: CLJ

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08101343
Lab Batch ID: R255581

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	24.2	121	20	24.2	121	0.283	26	40	165
Ethylbenzene	ND	20	22.6	113	20	22.5	113	0.142	34	51	156
Toluene	ND	20	23.0	115	20	23.1	116	0.235	25	58	153
m,p-Xylene	ND	40	45.0	112	40	44.9	112	0.156	27	51	155
o-Xylene	ND	20	21.5	108	20	21.4	107	0.614	25	58	151
Total BTEX	ND	120	136.3	113.6	120	136.1	113.5	0.08149	34	34	165
Xylenes, Total	ND	60	66.5	111	60	66.3	110	0.304	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	97.2	97.2	100	93.0	93.0	4.39	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	101	101	100	100	100	0.793	30	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 08101343
Lab Batch ID: R255193

Method Blank

RunID: IC1_081027B-4738383 Units: mg/L
Analysis Date: 10/27/2008 15:27 Analyst: TW

Analyte	Result	Rep Limit
Chloride	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101343-01B	SVE-1
08101343-02B	DUP-1
08101343-03B	IW-2
08101343-04B	IW-3
08101343-05B	IW-4
08101343-06B	IW-5
08101343-07B	IW-7
08101343-08B	EW-2

Laboratory Control Sample (LCS)

RunID: IC1_081027B-4738384 Units: mg/L
Analysis Date: 10/27/2008 15:44 Analyst: TW

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	9.497	94.97	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101343-01
RunID: IC1_081027B-4738388 Units: mg/L
Analysis Date: 10/27/2008 16:49 Analyst: TW

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	112.6	100	214.0	101.5	100	215.8	103.2	0.8286	20	80	120

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 08101343

Received By: L_C

Date and Time Received: 10/22/2008 9:30:00 AM

Carrier name: Fedex-Standard Overnight

Temperature: 2.0°C

Chilled by: Water Ice

- | | | | |
|--|---|--|---|
| 1. Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| 3. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Yes ☒ | No ☐ | |
| 5. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 6. Chain of custody agrees with sample labels? | Yes ☐ | No ☒ | |
| 1. Received TB but not written on the chain | | | |
| 7. Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| 8. Sample containers intact? | Yes ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 10. All samples received within holding time? | Yes ☒ | No ☐ | |
| 11. Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | |
| 12. Water - VOA vials have zero headspace? | Yes ☒ | No ☐ | VOA Vials Not Present ☐ |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes ☒ | No ☐ | Not Applicable ☐ |

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues: 1. Logged in with no analysis.

Client Instructions:



SPL, Inc.

SPL Workorder No.

317984

Analysis Request & Chain of Custody Record

08161343

page 1 of 3

Client Name: Tetra Tech / Conoco Phillips

Address: 1910 N Bay Springs

Phone/Fax: 432-682-4553 / 432-682-3546

Client Contact: Greg Pope Email: greg.pope@conoco.com

Project Name/No.: 432-682-3546

Site Name: 432-682-3546

Site Location: Hobbs, NM

Invoice To: Ph:

SAMPLE ID DATE TIME comp grab

matrix bottle size pres.

W=water S=soil O=oil
SL=sludge X=other

P=plastic A=amber glass
G=glass V=vial X=other

1=1 liter 4=4oz 40=vial
8=8oz 16=16oz X=other

1=HCl 2=HNO3
3=H2SO4 X=other

Number of Containers

RTX 8021

DRD 8015

61-300-0

Requested Analysis

SVLE-1	10-21-08	814	X	W	G	40	1	3	1										
SVLE-1		814			A	X	1	2											
SVLE-1		814			P	1	X	1											
D40-1					G	40	1	3											
D40-1					A	X	1	2											
D40-1					P	1	X	1											
Tw-2		841			G	40	1	3											
Tw-2		841			A	X	1	2											
Tw-2		841			P	1	X	1											
Tw-3		902			G	40	1	3											

Client/Consultant Remarks:

Laboratory remarks:

Intact?
Ice?
Temp: 24°C

PM review (initial):

Requested TAT

Contract 72hr

24hr Standard

48hr

Other

Special Reporting Requirements Results: Fax Email PDF

Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

1. Relinquished by Sampler:

3. Relinquished by:

5. Relinquished by:

2. Received by:

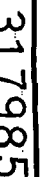
4. Received by:

6. Received by Laboratory:

8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777



page 2 of 3

459 Hughes Dr
Traverse City, MI 49686 (231) 947-5777



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

09010770

<u>Report To:</u> Tetra Tech Greg Pope 1910 N. Big Spring St Midland TX 79705- ph: (432) 682-4559 fax:	<u>Project Name:</u> COP Line NM1-1 <u>Site:</u> Hobbs, NM <u>Site Address:</u> <u>PO Number:</u> 4509519834 <u>State:</u> New Mexico <u>State Cert. No.:</u> <u>Date Reported:</u> 2/2/2009
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This Report Contains A Total Of 28 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

2/2/2009

Date

Test results meet all requirements of NELAC, unless specified in the narrative.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Conoco Phillips

Certificate of Analysis Number:
09010770

Report To: Tetra Tech Greg Pope 1910 N. Big Spring St Midland TX 79705- ph: (432) 682-4559 fax:	Project Name: COP Line NM1-1 Site: Hobbs, NM Site Address: PO Number: 4509519834 State: New Mexico State Cert. No.: Date Reported: 2/2/2009
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Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID:87261 for the Diesel Range Organics analysis by Method 8015B. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Erica Cardenas
Project Manager

09010770 Page 1
2/2/2009

Date

Test results meet all requirements of NELAC, unless specified in the narrative.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

09010770

Report To: Tetra Tech
Greg Pope
1910 N. Big Spring St

Midland

TX

79705-

ph: (432) 682-4559

fax: (432) 686-8085

Project Name: COP Line NM1-1

Site: Hobbs, NM

Site Address:

PO Number: 4509519834

State: New Mexico

State Cert. No.:

Date Reported: 2/2/2009

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SVE-1	09010770-01	Water	1/20/2009 8:05:00 AM	1/21/2009 9:30:00 AM	316762	☐
IW-2	09010770-02	Water	1/20/2009 8:25:00 AM	1/21/2009 9:30:00 AM	316762	☐
IW-3	09010770-03	Water	1/20/2009 8:45:00 AM	1/21/2009 9:30:00 AM	316762	☐
IW-4	09010770-04	Water	1/20/2009 9:05:00 AM	1/21/2009 9:30:00 AM	316762	☐
IW-5	09010770-05	Water	1/20/2009 9:30:00 AM	1/21/2009 9:30:00 AM	316763	☐
IW-7	09010770-06	Water	1/20/2009 9:49:00 AM	1/21/2009 9:30:00 AM	316763	☐
EW-2	09010770-07	Water	1/20/2009 10:20:00 AM	1/21/2009 9:30:00 AM	316764	☐
MW-13	09010770-08	Water	1/20/2009 10:50:00 AM	1/21/2009 9:30:00 AM	316764	☐
1	09010770-09	Water	1/20/2009	1/21/2009 9:30:00 AM	316764	☐
Trip Blank	09010770-10	Water	1/20/2009 11:30:00 AM	1/21/2009 9:30:00 AM	316764	☐

Erica Cardenas

2/2/2009

Erica Cardenas
Project Manager

Date

Richard R. Reed
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SVE-1

Collected: 01/20/2009 8:05

SPL Sample ID: 09010770-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	0.064		0.05	1	01/26/09 16:08	NW	4882102
Surr: n-Pentacosane	87.8		% 20-150	1	01/26/09 16:08	NW	4882102

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	ND		0.1	1	01/23/09 23:44	CLJ	4880745
Surr: 1,4-Difluorobenzene	101		% 60-155	1	01/23/09 23:44	CLJ	4880745
Surr: 4-Bromofluorobenzene	96.5		% 50-158	1	01/23/09 23:44	CLJ	4880745

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	137		5	10	01/27/09 3:59	BDG	4879623

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	01/23/09 23:44	CLJ	4880769
Toluene	ND		1	1	01/23/09 23:44	CLJ	4880769
Ethylbenzene	ND		1	1	01/23/09 23:44	CLJ	4880769
m,p-Xylene	ND		1	1	01/23/09 23:44	CLJ	4880769
o-Xylene	ND		1	1	01/23/09 23:44	CLJ	4880769
Xylenes, Total	ND		1	1	01/23/09 23:44	CLJ	4880769
Surr: 1,4-Difluorobenzene	97.0		% 39-163	1	01/23/09 23:44	CLJ	4880769
Surr: 4-Bromofluorobenzene	98.1		% 57-157	1	01/23/09 23:44	CLJ	4880769

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-2

Collected: 01/20/2009 8:25

SPL Sample ID: 09010770-02

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	6.8		0.1	2	01/27/09 12:53	NW	4882107
Surr: n-Pentacosane	87.2		% 20-150	2	01/27/09 12:53	NW	4882107

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	ND		0.1	1	01/29/09 8:15	CLJ	4882557
Surr: 1,4-Difluorobenzene	100		% 60-155	1	01/29/09 8:15	CLJ	4882557
Surr: 4-Bromofluorobenzene	106		% 50-158	1	01/29/09 8:15	CLJ	4882557

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	78.2		5	10	01/27/09 4:16	BDG	4879624

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	01/29/09 8:15	CLJ	4882521
Toluene	ND		1	1	01/29/09 8:15	CLJ	4882521
Ethylbenzene	ND		1	1	01/29/09 8:15	CLJ	4882521
m,p-Xylene	ND		1	1	01/29/09 8:15	CLJ	4882521
o-Xylene	ND		1	1	01/29/09 8:15	CLJ	4882521
Xylenes, Total	ND		1	1	01/29/09 8:15	CLJ	4882521
Surr: 1,4-Difluorobenzene	97.7		% 39-163	1	01/29/09 8:15	CLJ	4882521
Surr: 4-Bromofluorobenzene	101		% 57-157	1	01/29/09 8:15	CLJ	4882521

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-3

Collected: 01/20/2009 8:45

SPL Sample ID: 09010770-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	1		0.05	1	01/26/09 16:39	NW	4882103
Surr: n-Pentacosane	84.0		% 20-150	1	01/26/09 16:39	NW	4882103

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	ND		0.1	1	01/24/09 0:12	CLJ	4880746
Surr: 1,4-Difluorobenzene	101		% 60-155	1	01/24/09 0:12	CLJ	4880746
Surr: 4-Bromofluorobenzene	99.4		% 50-158	1	01/24/09 0:12	CLJ	4880746

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	87.5		5	10	01/27/09 4:33	BDG	4879625

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	01/24/09 0:12	CLJ	4880770
Toluene	ND		1	1	01/24/09 0:12	CLJ	4880770
Ethylbenzene	ND		1	1	01/24/09 0:12	CLJ	4880770
m,p-Xylene	ND		1	1	01/24/09 0:12	CLJ	4880770
o-Xylene	ND		1	1	01/24/09 0:12	CLJ	4880770
Xylenes, Total	ND		1	1	01/24/09 0:12	CLJ	4880770
Surr: 1,4-Difluorobenzene	98.4		% 39-163	1	01/24/09 0:12	CLJ	4880770
Surr: 4-Bromofluorobenzene	97.5		% 57-157	1	01/24/09 0:12	CLJ	4880770

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-4

Collected: 01/20/2009 9:05

SPL Sample ID: 09010770-04

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	18		0.25	5	01/27/09 13:24	NW	4882108
Surr: n-Pentacosane	127		% 20-150	5	01/27/09 13:24	NW	4882108

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.23		0.1	1	01/29/09 13:47	CLJ	4883083
Surr: 1,4-Difluorobenzene	102		% 60-155	1	01/29/09 13:47	CLJ	4883083
Surr: 4-Bromofluorobenzene	115		% 50-158	1	01/29/09 13:47	CLJ	4883083

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	66.3		5	10	01/27/09 4:50	BDG	4879626

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	01/29/09 13:47	CLJ	4883181
Toluene	ND		1	1	01/29/09 13:47	CLJ	4883181
Ethylbenzene	ND		1	1	01/29/09 13:47	CLJ	4883181
m,p-Xylene	ND		1	1	01/29/09 13:47	CLJ	4883181
o-Xylene	ND		1	1	01/29/09 13:47	CLJ	4883181
Xylenes, Total	ND		1	1	01/29/09 13:47	CLJ	4883181
Surr: 1,4-Difluorobenzene	97.9		% 39-163	1	01/29/09 13:47	CLJ	4883181
Surr: 4-Bromofluorobenzene	100		% 57-157	1	01/29/09 13:47	CLJ	4883181

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-5

Collected: 01/20/2009 9:30

SPL Sample ID: 09010770-05

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	15		0.25	5	01/27/09 13:54	NW	4882109
Surr: n-Pentacosane	126		% 20-150	5	01/27/09 13:54	NW	4882109

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.3		0.1	1	01/29/09 4:23	CLJ	4882551
Surr: 1,4-Difluorobenzene	100		% 60-155	1	01/29/09 4:23	CLJ	4882551
Surr: 4-Bromofluorobenzene	113		% 50-158	1	01/29/09 4:23	CLJ	4882551

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	144		5	10	01/27/09 5:07	BDG	4879627

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	01/29/09 4:23	CLJ	4882516
Toluene	ND		1	1	01/29/09 4:23	CLJ	4882516
Ethylbenzene	ND		1	1	01/29/09 4:23	CLJ	4882516
m,p-Xylene	1.1		1	1	01/29/09 4:23	CLJ	4882516
o-Xylene	ND		1	1	01/29/09 4:23	CLJ	4882516
Xylenes, Total	1.1		1	1	01/29/09 4:23	CLJ	4882516
Surr: 1,4-Difluorobenzene	95.5		% 39-163	1	01/29/09 4:23	CLJ	4882516
Surr: 4-Bromofluorobenzene	99.5		% 57-157	1	01/29/09 4:23	CLJ	4882516

Qualifiers:
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID IW-7

Collected: 01/20/2009 9:49

SPL Sample ID: 09010770-06

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	32		0.5	10	01/27/09 14:25	NW	4882110
Surr: n-Pentacosane	190 MI	*	% 20-150	10	01/27/09 14:25	NW	4882110

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	0.38		0.1	1	01/29/09 7:46	CLJ	4882556
Surr: 1,4-Difluorobenzene	102		% 60-155	1	01/29/09 7:46	CLJ	4882556
Surr: 4-Bromofluorobenzene	123		% 50-158	1	01/29/09 7:46	CLJ	4882556

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	83.2		5	10	01/27/09 5:24	BDG	4879628

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	01/29/09 7:46	CLJ	4882520
Toluene	ND		1	1	01/29/09 7:46	CLJ	4882520
Ethylbenzene	ND		1	1	01/29/09 7:46	CLJ	4882520
m,p-Xylene	1.2		1	1	01/29/09 7:46	CLJ	4882520
o-Xylene	ND		1	1	01/29/09 7:46	CLJ	4882520
Xylenes, Total	1.2		1	1	01/29/09 7:46	CLJ	4882520
Surr: 1,4-Difluorobenzene	96.8		% 39-163	1	01/29/09 7:46	CLJ	4882520
Surr: 4-Bromofluorobenzene	101		% 57-157	1	01/29/09 7:46	CLJ	4882520

Qualifiers:
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E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID EW-2

Collected: 01/20/2009 10:20 SPL Sample ID: 09010770-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	4.8		0.1	2	01/27/09 14:56	NW	4882111
Surr: n-Pentacosane	88.6		% 20-150	2	01/27/09 14:56	NW	4882111

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	5.1		2.5	25	01/24/09 14:39	CLJ	4880752
Surr: 1,4-Difluorobenzene	102		% 60-155	25	01/24/09 14:39	CLJ	4880752
Surr: 4-Bromofluorobenzene	97.7		% 50-158	25	01/24/09 14:39	CLJ	4880752

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	113		5	10	01/27/09 5:41	BDG	4879629

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	1100		25	25	01/24/09 14:39	CLJ	4880731
Toluene	1		1	1	01/26/09 21:52	CLJ	4880663
Ethylbenzene	280		1	1	01/26/09 21:52	CLJ	4880663
m,p-Xylene	280		1	1	01/26/09 21:52	CLJ	4880663
o-Xylene	ND		1	1	01/26/09 21:52	CLJ	4880663
Xylenes, Total	280		1	1	01/26/09 21:52	CLJ	4880663
Surr: 1,4-Difluorobenzene	98.1		% 39-163	25	01/24/09 14:39	CLJ	4880731
Surr: 1,4-Difluorobenzene	110		% 39-163	1	01/26/09 21:52	CLJ	4880663
Surr: 4-Bromofluorobenzene	98.6		% 57-157	25	01/24/09 14:39	CLJ	4880731
Surr: 4-Bromofluorobenzene	111		% 57-157	1	01/26/09 21:52	CLJ	4880663

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-13

Collected: 01/20/2009 10:50

SPL Sample ID: 09010770-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	0.96		0.05	1	01/26/09 17:10	NW	4882104
Surr: n-Pentacosane	87.8		% 20-150	1	01/26/09 17:10	NW	4882104

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	15		2.5	25	01/24/09 15:08	CLJ	4880753
Surr: 1,4-Difluorobenzene	102		% 60-155	25	01/24/09 15:08	CLJ	4880753
Surr: 4-Bromofluorobenzene	98.3		% 50-158	25	01/24/09 15:08	CLJ	4880753

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	77.5		5	10	01/27/09 5:58	BDG	4879630

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	5600		25	25	01/24/09 15:08	CLJ	4880732
Toluene	ND		5	5	01/27/09 4:01	CLJ	4880664
Ethylbenzene	390		5	5	01/27/09 4:01	CLJ	4880664
m,p-Xylene	12		5	5	01/27/09 4:01	CLJ	4880664
o-Xylene	13		5	5	01/27/09 4:01	CLJ	4880664
Xylenes, Total	25		5	5	01/27/09 4:01	CLJ	4880664
Surr: 1,4-Difluorobenzene	105		% 39-163	25	01/24/09 15:08	CLJ	4880732
Surr: 1,4-Difluorobenzene	116		% 39-163	5	01/27/09 4:01	CLJ	4880664
Surr: 4-Bromofluorobenzene	95.8		% 57-157	25	01/24/09 15:08	CLJ	4880732
Surr: 4-Bromofluorobenzene	101		% 57-157	5	01/27/09 4:01	CLJ	4880664

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Dup-#1 Collected: 01/20/2009 0:00 SPL Sample ID: 09010770-09

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics	0.65		0.05	1	01/26/09 17:41	NW	4882119
Surr: n-Pentacosane	77.0		% 20-150	1	01/26/09 17:41	NW	4882119

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	01/22/2009 7:57	N_M	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	17		2.5	25	01/24/09 15:36	CLJ	4880755
Surr: 1,4-Difluorobenzene	104		% 60-155	25	01/24/09 15:36	CLJ	4880755
Surr: 4-Bromofluorobenzene	102		% 50-158	25	01/24/09 15:36	CLJ	4880755

ION CHROMATOGRAPHY				MCL	E300.0	Units: mg/L	
Chloride	79.8		5	10	01/27/09 6:15	BDG	4879631

PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	5800		25	25	01/24/09 15:36	CLJ	4880733
Toluene	ND		1	1	01/27/09 4:58	CLJ	4880665
Ethylbenzene	89		1	1	01/27/09 4:58	CLJ	4880665
m,p-Xylene	1.8		1	1	01/27/09 4:58	CLJ	4880665
o-Xylene	3		1	1	01/27/09 4:58	CLJ	4880665
Xylenes, Total	4.8		1	1	01/27/09 4:58	CLJ	4880665
Surr: 1,4-Difluorobenzene	104		% 39-163	25	01/24/09 15:36	CLJ	4880733
Surr: 1,4-Difluorobenzene	119		% 39-163	1	01/27/09 4:58	CLJ	4880665
Surr: 4-Bromofluorobenzene	94.1		% 57-157	25	01/24/09 15:36	CLJ	4880733
Surr: 4-Bromofluorobenzene	103		% 57-157	1	01/27/09 4:58	CLJ	4880665

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Trip Blank

Collected: 01/20/2009 11:30

SPL Sample ID: 09010770-10

Site: Hobbs, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	ND		0.1	1	01/29/09 7:17	CLJ	4882555
Surr: 1,4-Difluorobenzene	100		% 60-155	1	01/29/09 7:17	CLJ	4882555
Surr: 4-Bromofluorobenzene	102		% 50-158	1	01/29/09 7:17	CLJ	4882555
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	01/24/09 16:05	CLJ	4880771
Toluene	ND		1	1	01/24/09 16:05	CLJ	4880771
Ethylbenzene	ND		1	1	01/24/09 16:05	CLJ	4880771
m,p-Xylene	ND		1	1	01/24/09 16:05	CLJ	4880771
o-Xylene	ND		1	1	01/24/09 16:05	CLJ	4880771
Xylenes, Total	ND		1	1	01/24/09 16:05	CLJ	4880771
Surr: 1,4-Difluorobenzene	98.2		% 39-163	1	01/24/09 16:05	CLJ	4880771
Surr: 4-Bromofluorobenzene	96.5		% 57-157	1	01/24/09 16:05	CLJ	4880771

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 09010770
Lab Batch ID: 87261

Method Blank

RunID: HP_Z_090126A-4882099 Units: mg/L
Analysis Date: 01/26/2009 14:34 Analyst: NW
Preparation Date: 01/22/2009 7:57 Prep By: N_M Method SW3510C

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	127.0	20-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09010770-01B	SVE-1
09010770-02B	IW-2
09010770-03B	IW-3
09010770-04B	IW-4
09010770-05B	IW-5
09010770-06B	IW-7
09010770-07B	EW-2
09010770-08B	MW-13
09010770-09B	Dup-#1

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_Z_090126A-4882100 Units: mg/L
Analysis Date: 01/26/2009 15:05 Analyst: NW
Preparation Date: 01/22/2009 7:57 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics	2.00	2.58	129	2.00	2.78	139	7.5	43	21	175
Surr: n-Pentacosane	0.0500	0.0701	140	0.0500	0.0667	133	5.0	43	20	150

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263534

Method Blank

RunID: HP_P_090126A-4878105 Units: ug/L
Analysis Date: 01/26/2009 10:10 Analyst: CLJ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09010770-07A	EW-2
09010770-08A	MW-13
09010770-09A	Dup-#1

Analyte	Result	Rep Limit
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	97.7	39-163
Surr: 4-Bromofluorobenzene	97.2	57-157

Laboratory Control Sample (LCS)

RunID: HP_P_090126A-4878103 Units: ug/L
Analysis Date: 01/26/2009 8:45 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Ethylbenzene	20.0	19.9	99.6	66	132
Toluene	20.0	19.9	99.4	69	133
m,p-Xylene	40.0	40.7	102	67	136
o-Xylene	20.0	19.6	98.0	67	133
Xylenes, Total	60.0	60.3	100	67	136
Surr: 1,4-Difluorobenzene	100	96.5	96.5	39	163
Surr: 4-Bromofluorobenzene	100	93.7	93.7	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010775-01
RunID: HP_P_090126A-4878111 Units: ug/L
Analysis Date: 01/26/2009 23:18 Analyst: CLJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylbenzene	18.2	100	114	95.8	100	120	102	5.19	34	51	156

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips
COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263534

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010775-01
RunID: HP_P_090126A-4878111 Units: ug/L
Analysis Date: 01/26/2009 23:18 Analyst: CLJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Toluene	ND	100	103	103	100	107	107	3.51	25	58	153
m,p-Xylene	6.28	200	206	99.7	200	216	105	5.08	27	51	155
o-Xylene	ND	100	98.0	98.0	100	104	104	5.65	25	58	151
Xylenes, Total	6.28	300	ND	99.1	300	ND	105	5.27	27	51	155
Surr: 1,4-Difluorobenzene	ND	500	508	102	500	505	101	0.576	30	39	163
Surr: 4-Bromofluorobenzene	ND	500	491	98.2	500	490	97.9	0.303	30	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263687

Method Blank

RunID: HP_P_090123C-4880723 Units: ug/L
Analysis Date: 01/23/2009 23:16 Analyst: CLJ

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	96.9	39-163
Surr: 4-Bromofluorobenzene	95.4	57-157

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09010770-01A	SVE-1
09010770-03A	IW-3
09010770-07A	EW-2
09010770-08A	MW-13
09010770-09A	Dup-#1
09010770-10A	Trip Blank

Laboratory Control Sample (LCS)

RunID: HP_P_090123C-4880721 Units: ug/L
Analysis Date: 01/23/2009 21:50 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	22.5	112	70	130
Ethylbenzene	20.0	22.2	111	66	132
Toluene	20.0	22.6	113	69	133
m,p-Xylene	40.0	45.3	113	67	136
o-Xylene	20.0	21.9	110	67	133
Xylenes, Total	60.0	67.2	112	67	136
Surr: 1,4-Difluorobenzene	100	98	98.0	39	163
Surr: 4-Bromofluorobenzene	100	98	98.0	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010770-01
RunID: HP_P_090123C-4880726 Units: ug/L
Analysis Date: 01/24/2009 0:41 Analyst: CLJ

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263687

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18.7	93.5	20	18.5	92.4	1.20	26	40	165
Ethylbenzene	ND	20	18.8	94.2	20	18.6	93.0	1.27	34	51	156
Toluene	ND	20	18.8	94.2	20	18.6	93.2	1.14	25	58	153
m,p-Xylene	ND	40	37.8	94.4	40	37.4	93.4	1.06	27	51	155
o-Xylene	ND	20	18.4	92.1	20	18.3	91.4	0.858	25	58	151
Xylenes, Total	ND	60	56.2	93.7	60	55.7	92.7	0.994	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	97.5	97.5	100	97.1	97.1	0.403	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	96.6	96.6	100	93.5	93.5	3.27	30	57	157

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 09010770
Lab Batch ID: R263689

Method Blank

RunID: HP_P_090123D-4880744 Units: mg/L
Analysis Date: 01/23/2009 23:16 Analyst: CLJ

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	100.1	60-155
Surr: 4-Bromofluorobenzene	98.6	50-158

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09010770-01A	SVE-1
09010770-03A	IW-3
09010770-07A	EW-2
09010770-08A	MW-13
09010770-09A	Dup-#1

Laboratory Control Sample (LCS)

RunID: HP_P_090123D-4880742 Units: mg/L
Analysis Date: 01/23/2009 22:19 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.02	102	42	136
Surr: 1,4-Difluorobenzene	0.100	0.103	103	60	155
Surr: 4-Bromofluorobenzene	0.100	0.0977	97.7	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010770-03
RunID: HP_P_090123D-4880747 Units: mg/L
Analysis Date: 01/24/2009 1:38 Analyst: CLJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.826	74.8	1	0.909	83.0	9.51	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.102	102	0.1	0.103	103	0.0975	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.101	101	0.1	0.0934	93.4	7.62	30	50	158

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263797

Method Blank

RunID: HP_P_090128A-4882502 Units: ug/L
Analysis Date: 01/28/2009 17:22 Analyst: CLJ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09010770-02A	IW-2
09010770-05A	IW-5
09010770-06A	IW-7

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	97.2	39-163
Surr: 4-Bromofluorobenzene	95.9	57-157

Laboratory Control Sample (LCS)

RunID: HP_P_090128A-4882500 Units: ug/L
Analysis Date: 01/28/2009 15:56 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.6	103	70	130
Ethylbenzene	20.0	20.6	103	66	132
Toluene	20.0	20.7	103	69	133
m,p-Xylene	40.0	41.9	105	67	136
o-Xylene	20.0	20.0	100	67	133
Xylenes, Total	60.0	61.9	103	67	136
Surr: 1,4-Difluorobenzene	100	97.7	97.7	39	163
Surr: 4-Bromofluorobenzene	100	97.9	97.9	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010921-07
RunID: HP_P_090128A-4882513 Units: ug/L
Analysis Date: 01/29/2009 1:30 Analyst: CLJ

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263797

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	22.5	112	20	22.3	111	0.865	26	40	165
Ethylbenzene	ND	20	22.7	114	20	22.5	112	0.978	34	51	156
Toluene	ND	20	22.4	112	20	22.0	110	1.90	25	58	153
m,p-Xylene	ND	40	45.6	114	40	45.2	113	0.988	27	51	155
o-Xylene	ND	20	22.0	110	20	22.1	110	0.217	25	58	151
Xylenes, Total	ND	60	67.6	113	60	67.3	112	0.594	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	96.6	96.6	100	97.4	97.4	0.825	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	97.8	97.8	100	99.4	99.4	1.60	30	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 09010770
Lab Batch ID: R263799

Method Blank

RunID: HP_P_090128C-4882543 Units: mg/L
Analysis Date: 01/28/2009 17:22 Analyst: CLJ

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	99.4	60-155
Surr: 4-Bromofluorobenzene	101.3	50-158

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09010770-02A	IW-2
09010770-05A	IW-5
09010770-06A	IW-7
09010770-10A	Trip Blank

Laboratory Control Sample (LCS)

RunID: HP_P_090128C-4883176 Units: mg/L
Analysis Date: 01/28/2009 16:24 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.991	99.1	42	136
Surr: 1,4-Difluorobenzene	0.100	0.101	101	60	155
Surr: 4-Bromofluorobenzene	0.100	0.1	100	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010921-08
RunID: HP_P_090128C-4882548 Units: mg/L
Analysis Date: 01/29/2009 2:28 Analyst: CLJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	1.12	112	1	1.14	114	1.75	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.101	101	0.1	0.101	101	0.296	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.0998	99.8	0.1	0.100	100	0.500	30	50	158

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

09010770 Page 22

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

2/2/2009 9:15:00 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 09010770
Lab Batch ID: R263839

Method Blank

RunID: HP_P_090129A-4883082 Units: mg/L
Analysis Date: 01/29/2009 13:18 Analyst: CLJ

Samples in Analytical Batch:

Lab Sample ID Client Sample ID
09010770-04A IW-4

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	99.3	60-155
Surr: 4-Bromofluorobenzene	100.8	50-158

Laboratory Control Sample (LCS)

RunID: HP_P_090129A-4883080 Units: mg/L
Analysis Date: 01/29/2009 12:20 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.987	98.7	42	136
Surr: 1,4-Difluorobenzene	0.100	0.101	101	60	155
Surr: 4-Bromofluorobenzene	0.100	0.1	100	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: H0901009600
RunID: HP_P_090129A-4885337 Units: mg/L
Analysis Date: 01/29/2009 20:30 Analyst: CLJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.856	85.6	1	0.829	82.9	3.22	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.101	101	0.1	0.101	101	0.693	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.103	103	0.1	0.100	100	2.75	30	50	158

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

09010770 Page 23

2/2/2009 9:15:01 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263840

Method Blank

Samples in Analytical Batch:

RunID: HP_P_090129B-4883180 Units: ug/L
Analysis Date: 01/29/2009 13:18 Analyst: CLJ

Lab Sample ID 09010770-04A
Client Sample ID IW-4

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	96.8	39-163
Surr: 4-Bromofluorobenzene	97.9	57-157

Laboratory Control Sample (LCS)

RunID: HP_P_090129B-4883178 Units: ug/L
Analysis Date: 01/29/2009 11:51 Analyst: CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.8	94.0	70	130
Ethylbenzene	20.0	19.0	94.8	66	132
Toluene	20.0	18.9	94.5	69	133
m,p-Xylene	40.0	38.5	96.3	67	136
o-Xylene	20.0	18.5	92.3	67	133
Xylenes, Total	60.0	57.0	94.9	67	136
Surr: 1,4-Difluorobenzene	100	97	97.0	39	163
Surr: 4-Bromofluorobenzene	100	98.9	98.9	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: H0901009600
RunID: HP_P_090129B-4885343 Units: ug/L
Analysis Date: 01/29/2009 19:33 Analyst: CLJ

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 09010770
Lab Batch ID: R263840

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	19.6	97.9	20	19.4	96.9	1.03	26	40	165
Ethylbenzene	ND	20	19.4	96.9	20	19.1	95.3	1.63	34	51	156
Toluene	ND	20	19.0	94.8	20	19.1	95.3	0.481	25	58	153
m,p-Xylene	ND	40	39.3	98.4	40	38.8	97.0	1.36	27	51	155
o-Xylene	ND	20	19.0	95.1	20	18.8	93.8	1.35	25	58	151
Xylenes, Total	ND	60	58.3	97.3	60	57.6	96.0	1.35	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	96.1	96.1	100	96.4	96.4	0.309	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	97.9	97.9	100	98.7	98.7	0.832	30	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips COP Line NM1-1

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 09010770
Lab Batch ID: R263629A

Method Blank

RunID: IC2_090126B-4879634 Units: mg/L
Analysis Date: 01/27/2009 9:33 Analyst: BDG

Analyte	Result	Rep Limit
Chloride	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09010770-01C	SVE-1
09010770-02C	IW-2
09010770-03C	IW-3
09010770-04C	IW-4
09010770-05C	IW-5
09010770-06C	IW-7
09010770-07C	EW-2
09010770-08C	MW-13
09010770-09C	Dup-#1

Laboratory Control Sample (LCS)

RunID: IC2_090126B-4879635 Units: mg/L
Analysis Date: 01/27/2009 9:50 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	11.28	112.8	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010600-01
RunID: IC2_090126B-4879637 Units: mg/L
Analysis Date: 01/27/2009 10:24 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	ND	10	10.87	108.7	10	11.27	112.7	3.631	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 09010770

Received By: RE

Date and Time Received: 1/21/2009 9:30:00 AM

Carrier name: Fedex-Standard Overnight

Temperature: 3.5°C

Chilled by: Water Ice

- | | | | |
|--|---|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| 3. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Yes ☒ | No ☐ | |
| 5. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 6. Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| 7. Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| 8. Sample containers intact? | Yes ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 10. All samples received within holding time? | Yes ☒ | No ☐ | |
| 11. Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | |
| 12. Water - VOA vials have zero headspace? | Yes ☒ | No ☐ | VOA Vials Not Present ☐ |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes ☐ | No ☐ | Not Applicable ☒ |

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance
Issues:

Client Instructions:

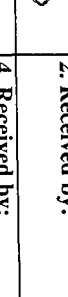


Analysis Request & Chain of Custody Record

CPI Work Order No

316762

page 1 of 3

Client Name: Tetra Tech										matrix		bottle		size		pres.		Requested Analysis																					
Address: 1910 N. Big Spring St										W=water S=soil O=oil		P=plastic A=amber glass		1=1 liter 4=4oz 40=vial		1=HCl 2=HNO3		BTEX 8021 DRO 8015 GRO AI- 300.0																					
Phone/Fax: (432) 682-4555 / (432) 682-3946										SL=sludge X=other		G=glass V=vial X=other		8=8oz 16=16oz X=other		3=H2SO4 X=other																							
Client Contact: Gary Pope Email: gary.pope@tetra-tech.com																																							
Project Name/No.: NM-1-1																																							
Site Name:																																							
Site Location: Hobbs, NM																																							
Invoice To:										Ph:																													
SAMPLE ID										DATE		TIME		comp		grab																							
SVE-1										1/20/09		0805				X		1		X		1		X															
SVE-1												0805						G		40		1		X		X													
SVE-1												0805						A		X		1		X		Z		X											
IW-2												0825						P		1		X		1		X		X											
IW-2												0825						G		40		1		X		X													
IW-2												0825						G		X		1		X		Z		X											
IW-3												0845						P		1		X		1		X													
IW-3												0845						G		40		1		X		X													
IW-3												0845						G		X		1		X		Z		X											
IW-4												0905						P		1		X		1		X		1											
Client/Consultant Remarks:										Laboratory remarks:										Intact? ☐ Y ☐ N Ice? ☐ Y ☐ N Temp: 3																			
Requested TAT										Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐										Special Detection Limits (specify):										PM review (initial):									
Contract ☐ 72hr ☐ 24hr ☐ Standard ☐ 48hr ☐ Other ☐										I. Relinquished by: 										date 1/20/09 time 11:30										2. Received by:									
3. Relinquished by:										date 1/20/09 time 09:30										4. Received by:										6. Received by Laboratory: 									
5. Relinquished by:										date 1/24/09 time 09:30																													

Analysis Request & Chain of Custody Record

06010790

Page 2 of 3

Client Name: Tetra Tech					
Address: 1910 N. Bay Springs St Phone/Fax: (432) 682-4557 / (432) 682-3546 Client Contact: Greg Pope Email: greg.pope@tetratech.com Project Name/No.: NM1-1					
Site Name:					
Site Location: Hobbs, NM					
Invoice To:					
SAMPLE ID	DATE	TIME	comp	grab	Ph:
IW-4	1/20/09	0905	X	W	G
IW-4		0905		A	U
IW-5		0930		P	1
IW-5		0930		G	LD
IW-5		0930		A	K
IW-7		0949		P	1
IW-7		0949		G	LD
IW-7		0949		A	X
EW-2		1620		P	1
EW-2		1620		G	LD
EW-2		1620		A	X
matrix bottle size pres.					
W=water S=soil O=oil SL=sludge X=other P=plastic A=amber glass G=glass V=vial X=other 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other 1=HCl 2=HNO3 3=H2SO4 X=other					
Number of Containers					
13 TEX 8021					
PRO 8015					
GRO					
CI - 300.0					
Requested Analysis					
Intact? Ice? Temp: 3, 5, 20 Y N N					
PM review (initial): PF					
Special Reporting Requirements Results: Fax TX TRRP LA RECAP PDF					
Standard QC Level 3 QC Level 4 QC					
1. Relinquished by Sampler: date 1/20/09 time 1130					
3. Relinquished by: date					
5. Relinquished by: date 1/20/09 time 0930					
6. Received by Laboratory: [Signature]					
Requested TAT Contract 72hr Standard					
24hr 48hr Other					



316764

Analysis Request & Chain of Custody Record

Requested Analysis

Invoice To: 1205

Q1 300.0

Intact?	☐ Y	☐ N
Ice?	☐ Y	☐ N
Temp:		

Other ☐ _____

PM review (initial):

5 Relinquished by:

459 Hughes Drive

**450 Hughes Drive
Traverse City MI 49686 (231) 947-5777**

APPENDIX C
C-117A Disposal Permits

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-117 A
Revised June 10, 2003

Submit 5 Copies to
Appropriate District Office

PERMIT NO. H-31788

TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT

Operator or Owner Tetra Tech, Inc. (for ConocoPhillips, Inc.) Address 1910 N. Big Spring St., Midland, TX 79705

Lease or Facility Name Line NM1-1 ConocoPhillips Remediation Site Location Sec 9, T19S, R38E
U.L. - Sec. - Twp. - Rge.

OPERATION TO BE PERFORMED:

☐ Tank Cleaning ☐ Sediment Oil Removal ☒ Transportation of Miscellaneous Hydrocarbons

Operator or Owner Representative authorizing work Greg W. Pope

Date Work to be Performed October 14, 2008

TANK CLEANING DATA

Tank Number _____

Volume _____

Tank Type _____

Volume Below Load Line _____

SEDIMENT OIL OR MISCELLANEOUS HYDROCARBON DATA

Sediment Oil from: ☐ Pit ☐ Cellar ☐ Other

MISCELLANEOUS OIL

Tank Bottoms From: ☐ Pipeline Station ☐ Crude Terminal ☐ Refinery ☐ Other*

Catchings From: ☐ Gasoline Plant ☐ Gathering Lines ☐ Salt Water Disposal System ☒ Other*

☐ Pipeline Break Oil or Spill

*Other (Explain) Remediation System Groundwater and Crude Oil Recovery Tank - groundwater with minor crude oil

VOLUME AND DESTINATION:

Estimated Volume 55 Bbls.

Field test volume of good oil _____ Bbls.
(Not required prior to Division approval)

Destination (Name and Location of treating plant or other facility) Sundance Services, Eunice, NM

DESTRUCTION OF SEDIMENT OIL BY:

☐ Burning ☐ Pit Disposal ☐ Use on Roads or firewalls ☐ Other

(Explain) _____

Location of Destruction _____

Justification of Destruction _____

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Owner <u>ConocoPhillips, Inc.</u>	Transporter <u>Pate Trucking</u>	
By <u>Greg W. Pope (Tetra Tech, Inc.)</u>	Address <u>3800 S. Eunice Hwy, Hobbs, NM 88240</u>	
Title <u>Project Manager</u>	Signature <u>Joe Morris</u>	
E-mail Address <u>gwpope57@aol.com</u>	E-mail Address _____	
Date <u>October 8, 2008</u>	Title <u>Dispatcher</u>	Date <u>October 8, 2008</u>

OIL CONSERVATION DIVISION

Approved By Nelda Moraga

Title Business Operations Specialist Date 10/8/2008

A COPY OF THIS FORM MUST BE ON LOCATION DURING TANK CLEANING, REMOVAL OF SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS, AND MUST BE PRESENTED WITH TANK BOTTOMS, SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS AT THE TREATING PLANT TO WHICH IT IS DELIVERED.

DISTRIBUTION BY OCD

☐ Santa Fe

☐ File

☐ Operator

☐ Transporter (2)

Jun 11 08 04:29p Tl-Midland

432-686-8085

p.2

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-117 A
Revised June 10, 2003

Submit 5 Copies to
Appropriate District Office

PERMIT NO. H-31476**TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT**Operator or Owner Tetra Tech, Inc. (for ConocoPhillips, Inc.) Address 1703 W. Industrial Ave., Midland, TX 79701Lease or Facility Name Line NM1-1 ConocoPhillips Remediation Site Location Sec 9, T19S, R38E
U.L. - Sec. - Twp. - Rge.**OPERATION TO BE PERFORMED:**☐ Tank Cleaning ☐ Sediment Oil Removal ☒ Transportation of Miscellaneous HydrocarbonsOperator or Owner Representative authorizing work Greg W. PopeDate Work to be Performed June 16, 2008**TANK CLEANING DATA**

Tank Number _____

Volume _____

Tank Type _____

Volume Below Load Line _____

SEDIMENT OIL OR MISCELLANEOUS HYDROCARBON DATASediment Oil from: ☐ Pit ☐ Cellar ☐ Other**MISCELLANEOUS OIL**Tank Bottoms From: ☐ Pipeline Station ☐ Crude Terminal ☐ Refinery ☐ Other*Catchings From: ☐ Gasoline Plant ☐ Gathering Lines ☐ Salt Water Disposal System ☒ Other*☐ Pipeline Break Off or Spill*Other (Explain) Remediation System Groundwater and Crude Oil Recovery Tank - groundwater with minor crude oil**VOLUME AND DESTINATION:**Estimated Volume 80 Bbls.Field test volume of good oil _____ Bbls.
(Not required prior to Division approval)Destination (Name and Location of treating plant or other facility) Sundance Services, Eunice, NM**DESTRUCTION OF SEDIMENT OIL BY:**☐ Burning ☐ Pit Disposal ☐ Use on Roads or firewalls ☐ Other

(Explain) _____

Location of Destruction _____

Justification of Destruction _____

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Owner <u>ConocoPhillips, Inc.</u>	Transporter <u>Pate Trucking</u>
By <u>Greg W. Pope (Tetra Tech, Inc.)</u>	Address <u>3800 S. Eunice Hwy, Hobbs, NM 88240</u>
Title <u>Project Manager</u>	Signature <u>Joe Morris</u>
E-mail Address <u>gwpope57@aol.com</u>	E-mail Address _____
Date <u>June 11, 2008</u>	Title <u>Dispatcher</u> Date <u>June 11, 2008</u>

OIL CONSERVATION DIVISIONApproved By Nelda MorganTitle Business Operations Specialist Date 6/16/2008

A COPY OF THIS FORM MUST BE ON LOCATION DURING TANK CLEANING, REMOVAL OF SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS, AND MUST BE PRESENTED WITH TANK BOTTOMS, SEDIMENT OIL, OR MISCELLANEOUS HYDROCARBONS AT THE TREATING PLANT TO WHICH IT IS DELIVERED.

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Santa Fe

File

Operator

Transporter (2)