# AP-10

# Annual Monitor Report

# DATE:
# 03/2009 – 02/2010

**Thomas (Tom) Wynn**
Site Manager
Risk Management & Remediation
1354 Phillips Building
420 South Keeler
Bartlesville, OK 74074
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tom.r.wynn@conocophillips.com

ConocoPhillips



June 25, 2010

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 2009 THROUGH FEBRUARY 2010**
**ConocoPhillips Line NM1-1 (AP-10)**
**Hobbs, Lea County, New Mexico**

Dear Mr. VonGonten:

Pursuant to requirements set forth in Discharge Permit GW-349 for the Line NM1-1 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 2009 through February 2010 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 30, 2010 was submitted to you and approved via electronic mail on March 22, 2010. However, additional time was required to complete this report. 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

## Pope, Greg

**From:** VonGonten, Glenn, EMNRD [Glenn.VonGonten@state.nm.us]
**Sent:** Monday, March 22, 2010 9:48 AM
**To:** Pope, Greg
**Subject:** RE: Request for Extension for Submittal of ConocoPhillips Hobbs Sites Annual Reports

Greg,

Your request is approved.

Glenn

---

**From:** Pope, Greg [mailto:Greg.Pope@tetratech.com]
**Sent:** Monday, March 22, 2010 7:56 AM
**To:** VonGonten, Glenn, EMNRD
**Cc:** Wynn, Tom R
**Subject:** Request for Extension for Submittal of ConocoPhillips Hobbs Sites Annual Reports

Mr. Von Gonten,

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 30, 2010, if you are in agreement. Please call or reply with any questions or comments. Thank you.

**Greg W. Pope, P.G. | Project Manager**
Office: 432.682.4559 | Cell: 432.661.3852 | Fax : 432.682.3946
greg.pope@tetratech.com

Tetra Tech | Complex World, Clear Solutions™
1910 N. Big Spring St. | Midland, TX 79705 | www.tetratech.com

# ANNUAL MONITORING, OPERATION AND MAINTENANCE REPORT
## MARCH 2009 THROUGH FEBRUARY 2010

**CONOCOPHILLIPS**
**LINE NM1-1 (AP-10)**

**HOBBS, LEA COUNTY, NEW MEXICO**

Prepared for:

ConocoPhillips

Prepared By:

TETRA TECH, INC.

1910 N. Big Spring Street
Midland, Texas 79705

**June 25, 2010**

TETRA TECH, INC.

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

June 25, 2010

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 2009 THROUGH FEBRUARY 2010**
**ConocoPhillips Line NM1-1 (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 NM1-1 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, originally issued to ConocoPhillips for the Site on October 10, 2002. A request for extension of the submittal date for this report to April 30, 2010 was submitted to the NMOCD and approved via electronic mail on March 22, 2010; however, additional time was required to complete this report. This report is a summary of the following activities performed from March 2009 through February 2010:

- 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 2009, and January 2010.

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, and amendments to the application were submitted to the NMOCD on August 28, 2008. Public notification of the permit renewal was completed on September 23, 2008, fulfilling the requirements of the renewal process.

## BACKGROUND

Project activities commenced at the Site in 1999 following the discovery of a release of crude oil from gathering line NM1-1. 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 2003[1]. On September 24, 2003, Maxim (presently

[1]Higgins and Associates, 2000. Stage 2 Abatement Plan for Groundwater Abatement Plan AP-10, Line NM1-1 Site, Phillips Pipe Line Company, April 14, 2000.

Tetra Tech) assumed operation and maintenance of the system, and has continued the required Site monitoring activities.

## 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" (updated December 31, 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 20 and 21, July 27, 28 and 29, and October 26 and 27, 2009, and January 25 and 26, 2010. Accessible monitoring, recovery and remediation wells were measured for groundwater elevations prior to the sampling events. Wells MW-13, IW-2, IW-3, IW-4, IW-5, IW-7, and SVE-1 were sampled during all four quarterly sampling events. 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 2009 were also analyzed for New Mexico Water Quality Control Commission (WQCC) metals by Methods 6010B/6020A/7470A/E300.0, 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 0.0038 to 0.0048 feet per foot (ft/ft). Groundwater elevations show an overall decreasing trend after peaking during the January 2005 recharge event approximately five years ago. All but three wells have now reached their lowest groundwater level since measurements began. Wells MW-4, MW-5 and MW-6 exhibited an increase in groundwater elevation during early October 2009, with MW-6 showing the maximum increase of approximately three feet. However, these three wells continued the decreasing trend after this rise in groundwater elevation. 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 (IWs) as a possible response to the groundwater table increases seen in October 2004 and January 2005. The current analytical data show that all the perimeter IWs and SVE-1 reported non-detect for BTEX constituents during all four sampling events, with the exception of IW-5, where detectable concentrations of benzene were reported during the July and October 2009, and January 2010 sampling events (1.5, 1.5 and 3.5 micrograms per liter [µg/L], respectively). However, benzene was non-detect in IW-5 during the April 2009 sampling. In MW-13, concentrations of benzene decreased from 4,600 µg/L to 250 µg/L from April 2009 through January 2010. 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 2009 WQCC analysis (Table 2d) reported dissolved metals at naturally occurring background concentrations, except for iron reported above WQCC Standards in IW-5 at 2.65 milligrams per liter (mg/L). Analysis for TDS reported concentrations ranging from 555 (IW-4) to 842 mg/L (IW-5). PAH analyses reported only benzo(a)pyrene above WQCC Standards at 4.5 µg/L in well IW-7. No other concentrations of PAH constituents above WQCC Standards 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 2009, and January 2010 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 continuing overall decrease in groundwater elevations at the Site. LPH levels measured during the April 2009 monitoring event showed maximum measured thicknesses of 3.32 feet in MW-7 and 3.27 feet in MW-6 (Figure 4a). LPH measurements in July 2009 showed maximum LPH thicknesses of 4.67 feet in MW-8 and 3.57 feet in MW-1 (Figure 4b). The LPH thickness measurements collected in October 2009 showed maximum thicknesses of 4.38 feet in MW-1 and 3.31 feet in MW-6 (Figure 4c). The LPH measurements collected in January 2010 (Figure 4d) showed maximum thicknesses of 3.59 feet in MW-1 and 3.21 feet in MW-8. 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, coupled with the decreasing groundwater levels at the Site. 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 2009). 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, 2005[2]. Depiction of the responses of LPH plume thickness and groundwater level elevation over time is shown on the hydrographs in Appendix A.

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[2] Maxim Technologies., 2006. Annual Monitoring, Operation and Maintenance Report: March 2005 through February 2006, ConocoPhillips Line NM1-1 (AP-10), Hobbs, Lea County, New Mexico. April 12, 2006.

## 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 April 20, 2002 to January 18, 2010, the system has recovered approximately 1,088 barrels of crude oil. From initial abatement activities and ongoing product removal activities, approximately 1,398 barrels of crude oil have been recovered through January 2010.

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 increased[3]. 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. The hydrographs (Appendix A) reflect the effects of the enhanced maintenance schedule, with most recovery wells showing that the maximum amount of crude oil coming into the wells is being recovered during each weekly maintenance cycle.

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[3] Tetra Tech, Inc., 2007. Annual Monitoring, Operation and Maintenance Report: March 2006 through February 2007, ConocoPhillips Line NM1-1 (AP-10), Hobbs, Lea County, New Mexico. March 30, 2007.

## GROUNDWATER DISPOSAL ACTIVITIES

On June 29, 2009, approximately 68 barrels (bbls) 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 June 29, 2009, ConocoPhillips removed approximately 42 bbls of crude oil from the oil storage tank and injected it into the Gaines Station pipeline.

On October 5, 2009, approximately 100 bbls 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 December 9, 2009, approximately 63 bbls of recovered groundwater was removed from the crude oil storage tank containment berm and 28 bbls of crude oil mixed with groundwater was removed from the oil storage tank, and transported by Pate Trucking to Sundance Services in Eunice, New Mexico for disposal. This action was necessary due to a broken valve on the storage tank releasing recovered groundwater into the tank containment berm, while the recovered crude oil remained in the tank. The tank was consequently emptied of crude oil and the groundwater was removed from the containment berm so repairs to the valve could be completed.

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 decreased to non-detect or near non-detect levels in the IWs and SVE-1. Decreases in organic constituent concentrations were also observed in monitoring well MW-13 during the reporting time frame.
- Groundwater levels measured during the recent sampling events show they peaked in January 2005 and are in a decreasing trend. All but three wells have now reached their lowest groundwater level since measurements began. Wells MW-4, MW-5 and MW-6 exhibited an increase in groundwater elevation during early October 2009, with MW-6 showing the maximum increase of approximately three feet. However, these three wells continued the decreasing trend after this rise in groundwater elevation.
- The LPH plume shows a general increase in thickness during the four reporting quarters as the plume responds to the decreases 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 exhibited a decrease in measurable LPH from previous events. Thin measurable levels of LPH were observed in wells IW-3, IW-5 and IW-7 during the April 2009 sampling event, and in IW-4 during the October 2009 sampling event. No measurable LPH was observed in the IWs during the July 2009 and January 2010 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 1,398 bbls 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. PAH analyses reported only benzo(a)pyrene above WQCC Standards in well IW-7. No other PAH constituents were reported above WQCC Standards in any of the sampled wells. WQCC dissolved metals were reported at naturally occurring background concentrations, with the exception of iron in IW-5.
- 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.

TETRA TECH, INC.

- Perform quarterly groundwater monitoring and sampling activities at the Site according to established procedures.

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

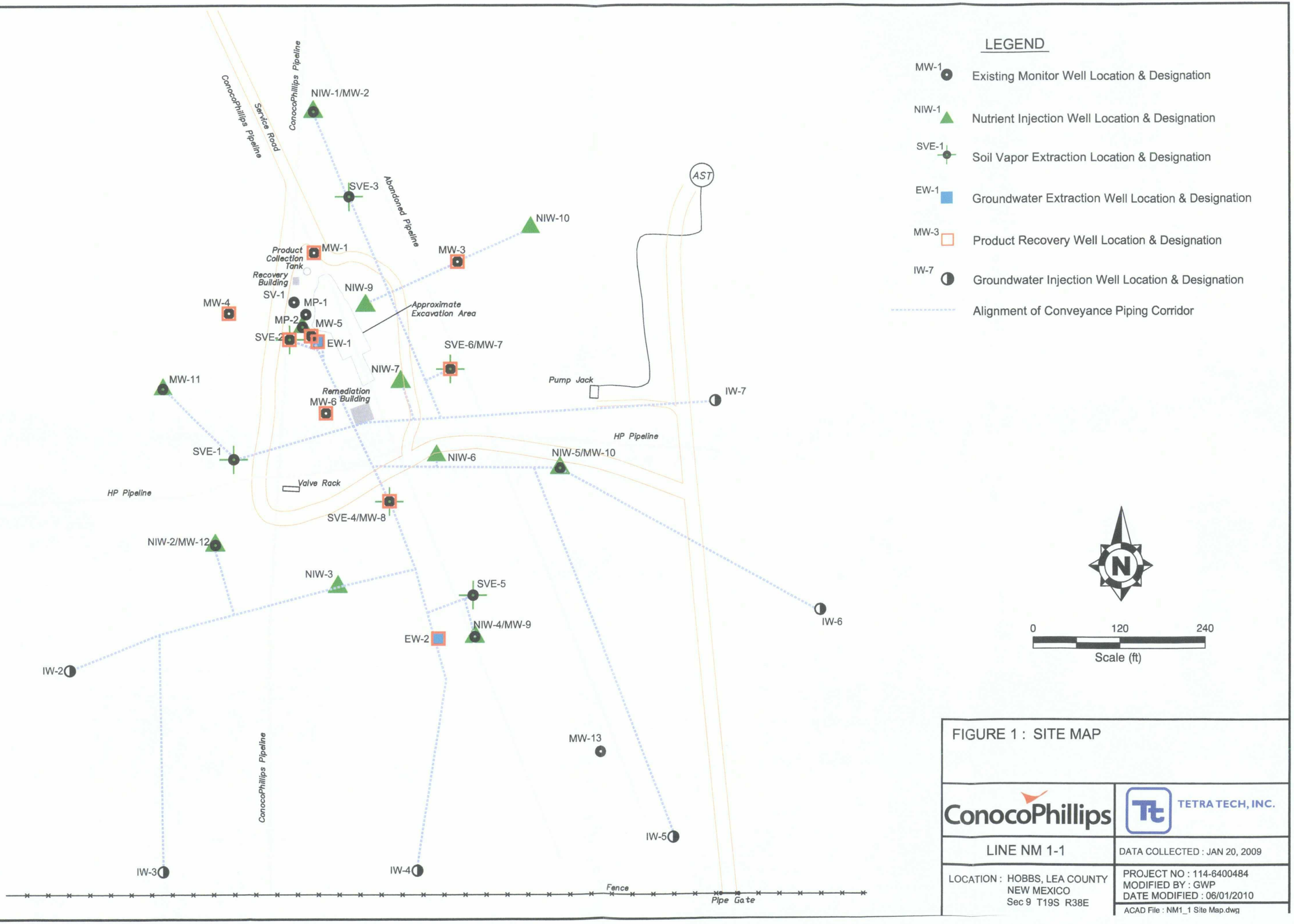



FIGURE 1 : SITE MAP

ConocoPhillips

TETRA TECH, INC.

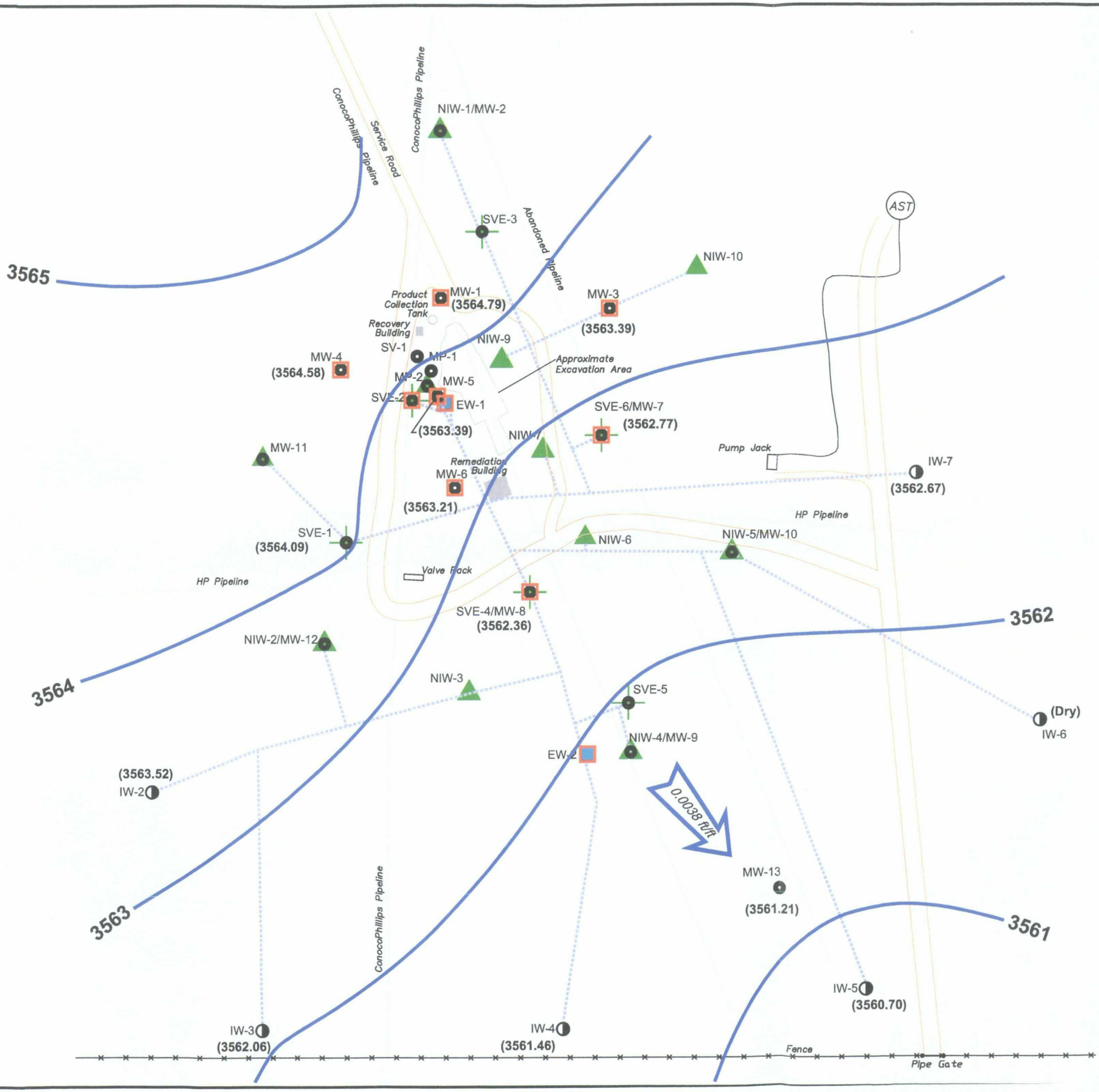
LINE NM 1-1

DATA COLLECTED : JAN 20, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : GWP
DATE MODIFIED : 06/01/2010

ACAD File : NM1_1 Site Map.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
- 3565 — Groundwater Elevation Contour
- (3564.58) — Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

N

0 120 240

Scale (ft)

FIGURE 2a : GROUNDWATER ELEVATION CONTOUR MAP APRIL 2009

ConocoPhillips

TETRA TECH, INC.

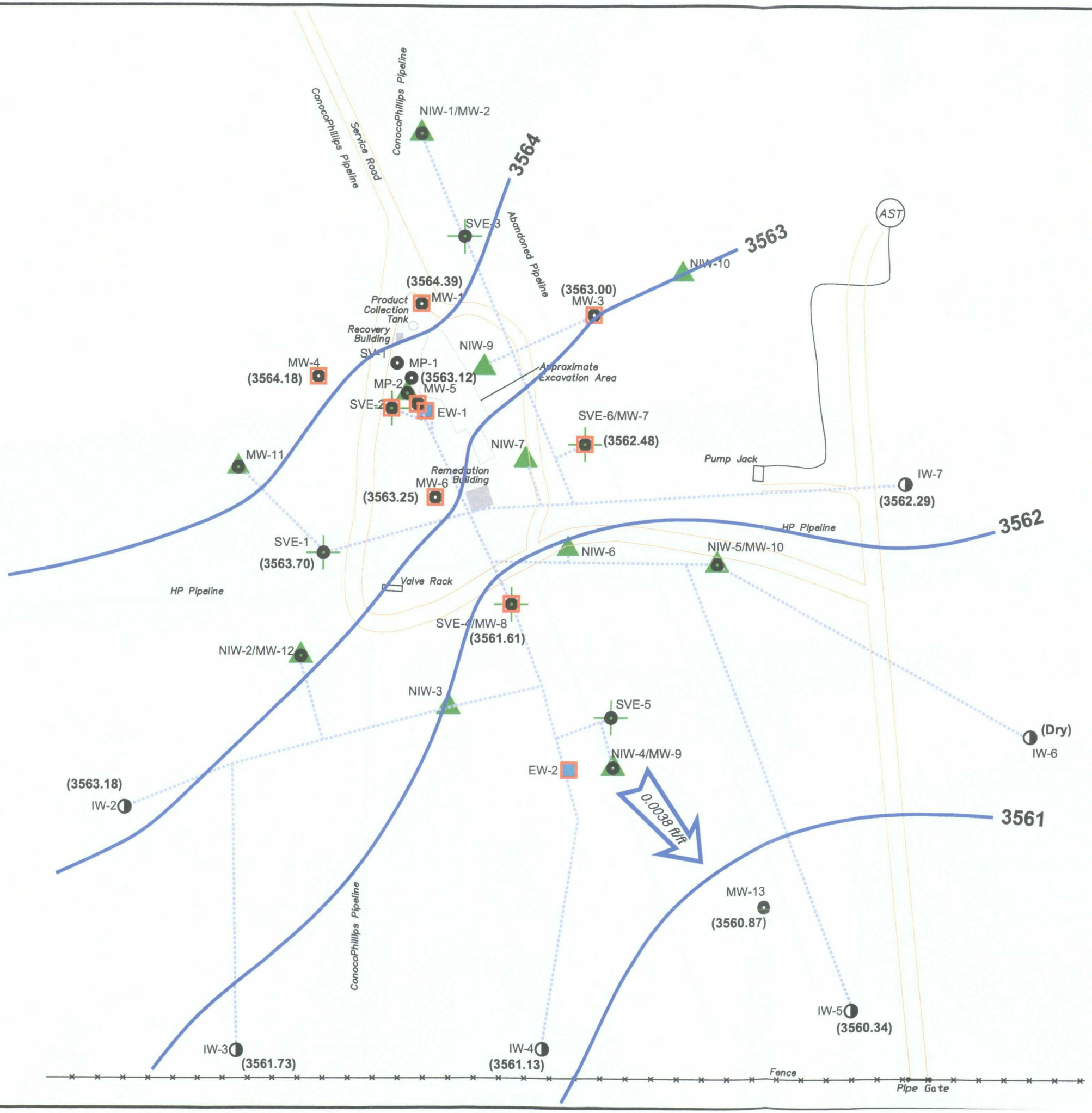
LINE NM 1-1

DATA COLLECTED : APRIL 20, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 GW Apr09.dwg




## LEGEND

- MW-1 — Existing Monitor Well Location & Designation
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- 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
- 3565 — Groundwater Elevation Contour
- (3564.39) — Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

N

0 120 240

Scale (ft)

FIGURE 2b : GROUNDWATER ELEVATION CONTOUR MAP JULY 2009

ConocoPhillips

TETRA TECH, INC.

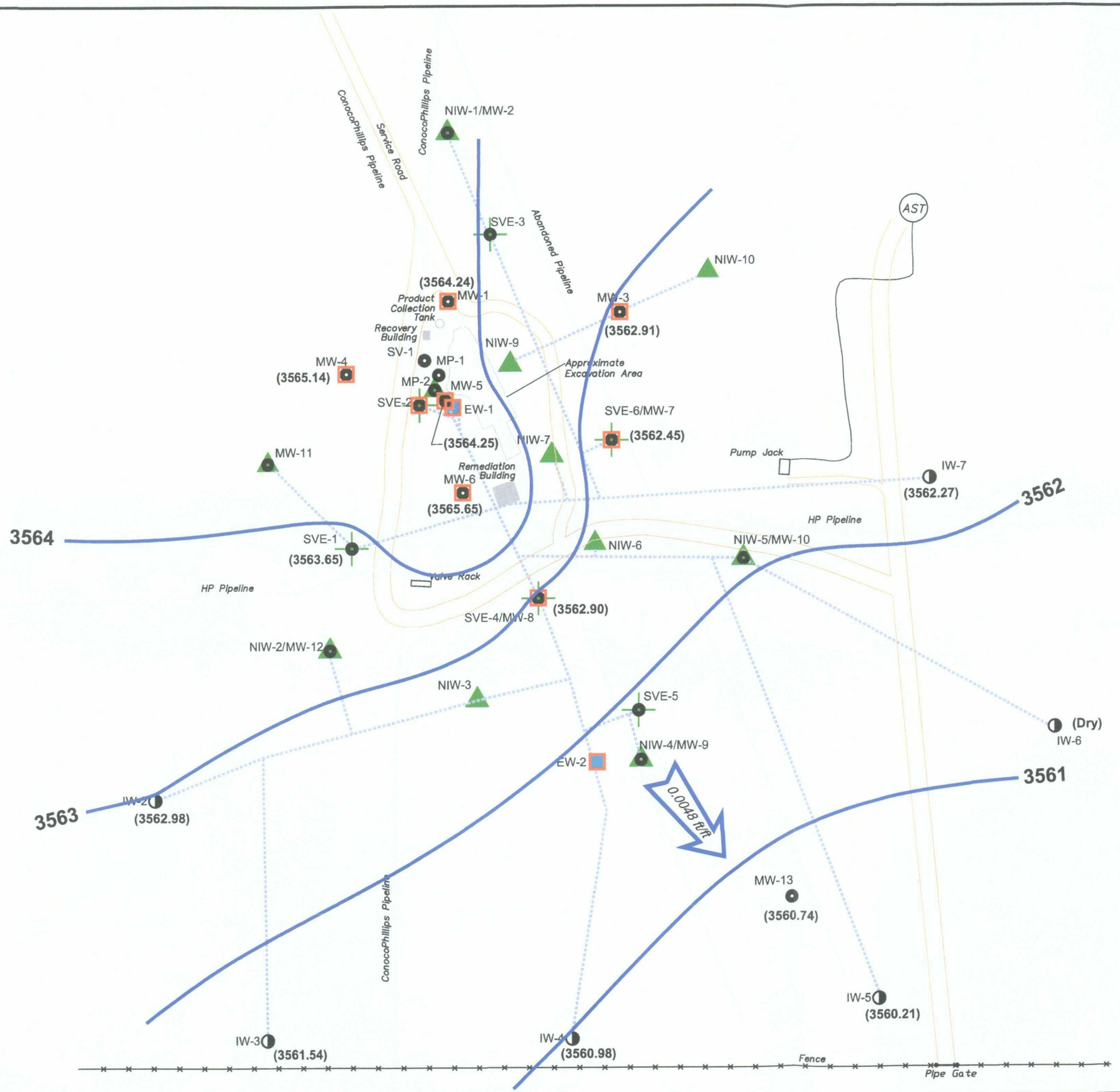
LINE NM 1-1

DATA COLLECTED : JULY 27, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1 1 GW Jul09.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
- 3565 — Groundwater Elevation Contour
- (3564.24) — Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

N

0 120 240

Scale (ft)

FIGURE 2c : GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 2009

ConocoPhillips

TETRA TECH, INC.

LINE NM 1-1

DATA COLLECTED : OCT 26, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 GW Oct09.dwg

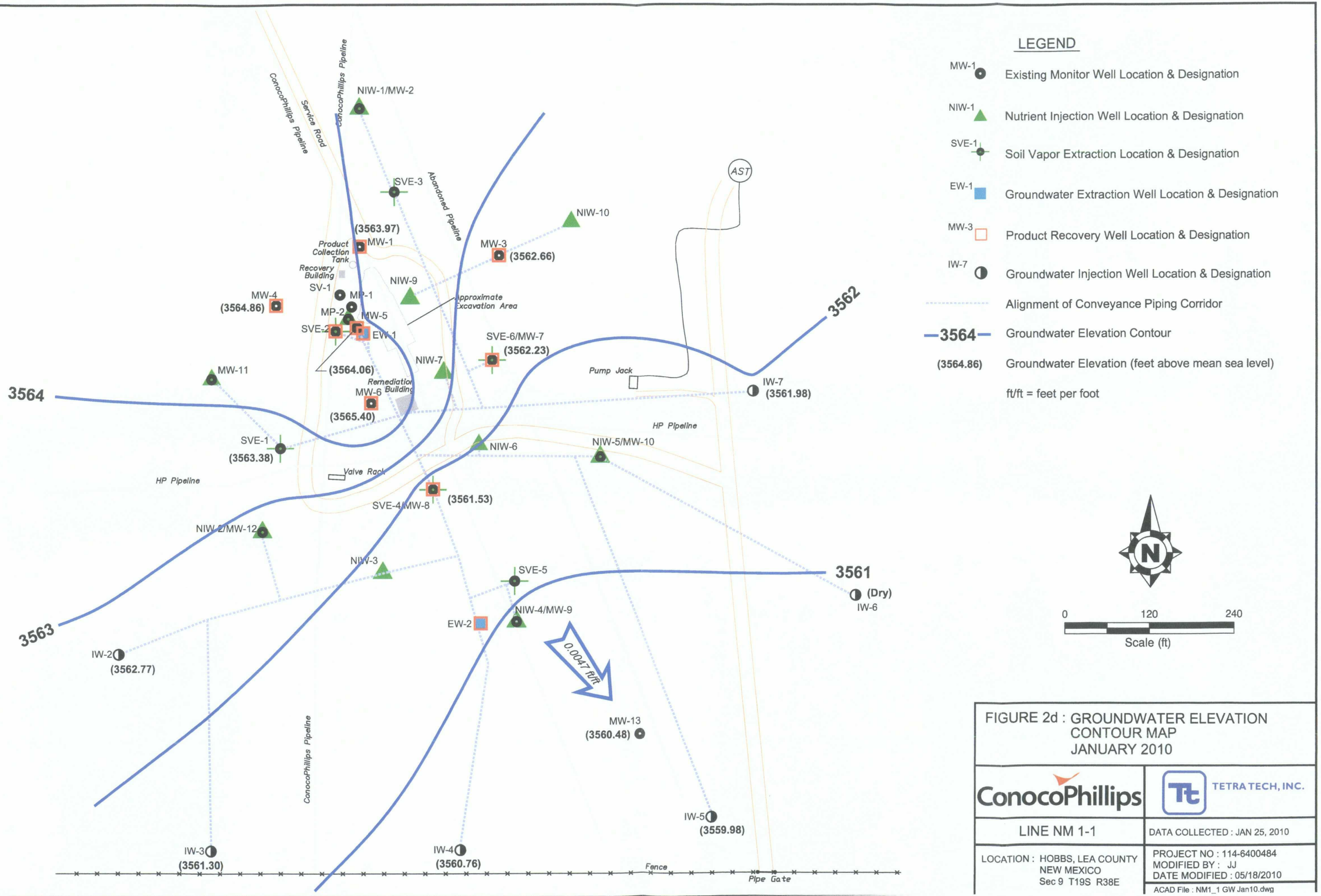



FIGURE 2d : GROUNDWATER ELEVATION CONTOUR MAP JANUARY 2010

ConocoPhillips

TETRA TECH, INC.

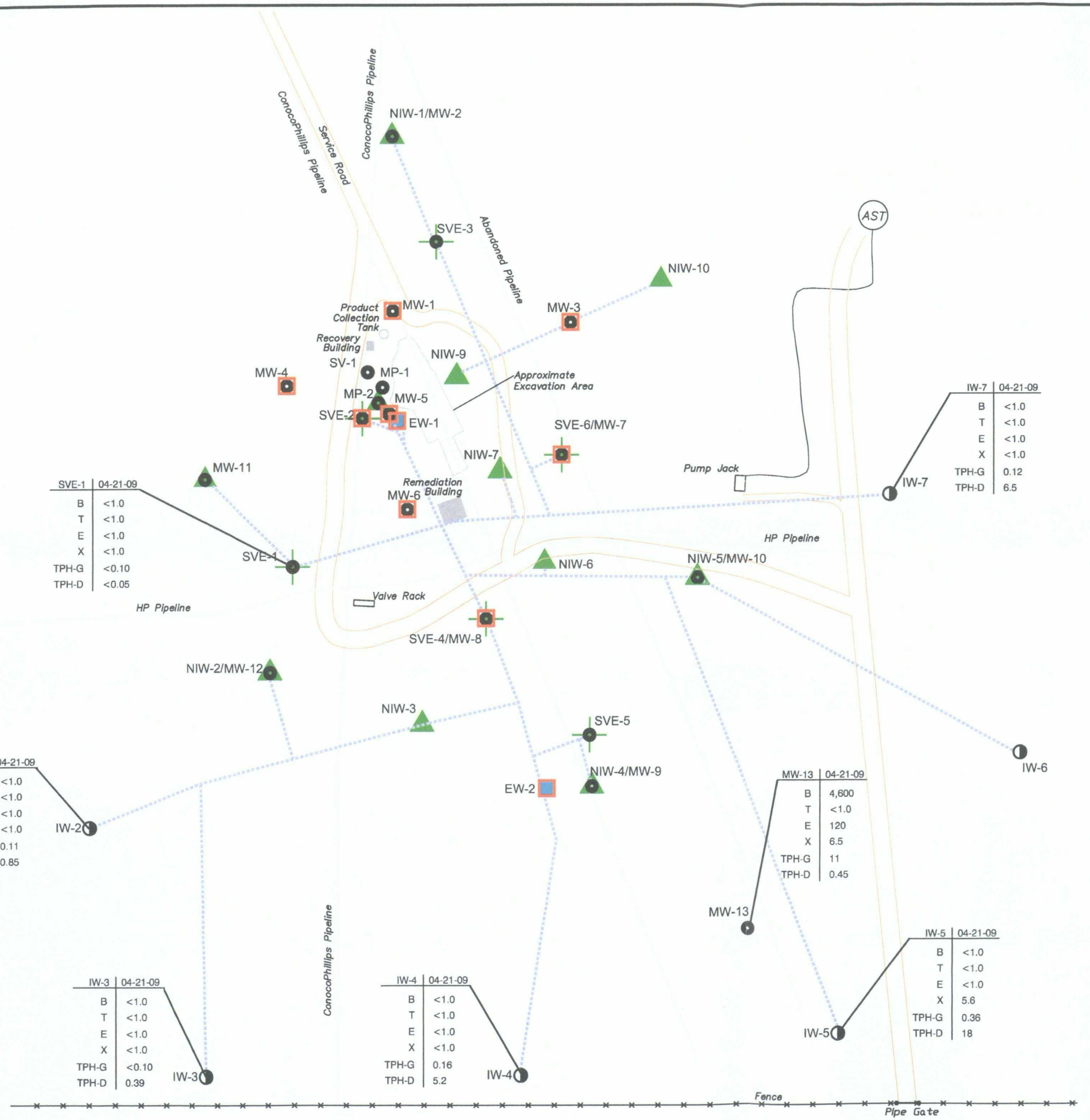
LINE NM 1-1

DATA COLLECTED : JAN 25, 2010

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 GW Jan10.dwg




| IW-7 | 04-21-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.12 |
| TPH-D | 6.5 |

| SVE-1 | 04-21-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | <0.05 |

| IW-2 | 04-21-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.11 |
| TPH-D | 0.85 |

| MW-13 | 04-21-09 |
|---|---|
| B | 4,600 |
| T | <1.0 |
| E | 120 |
| X | 6.5 |
| TPH-G | 11 |
| TPH-D | 0.45 |

| IW-3 | 04-21-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | 0.39 |

| IW-4 | 04-21-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.16 |
| TPH-D | 5.2 |

| IW-5 | 04-21-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | 5.6 |
| TPH-G | 0.36 |
| TPH-D | 18 |

## LEGEND

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

µg/L = micrograms per liter

mg/L = milligrams per liter

N

0 120 240

Scale (ft)

# FIGURE 3a : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS APRIL 2009

ConocoPhillips

TETRA TECH, INC.

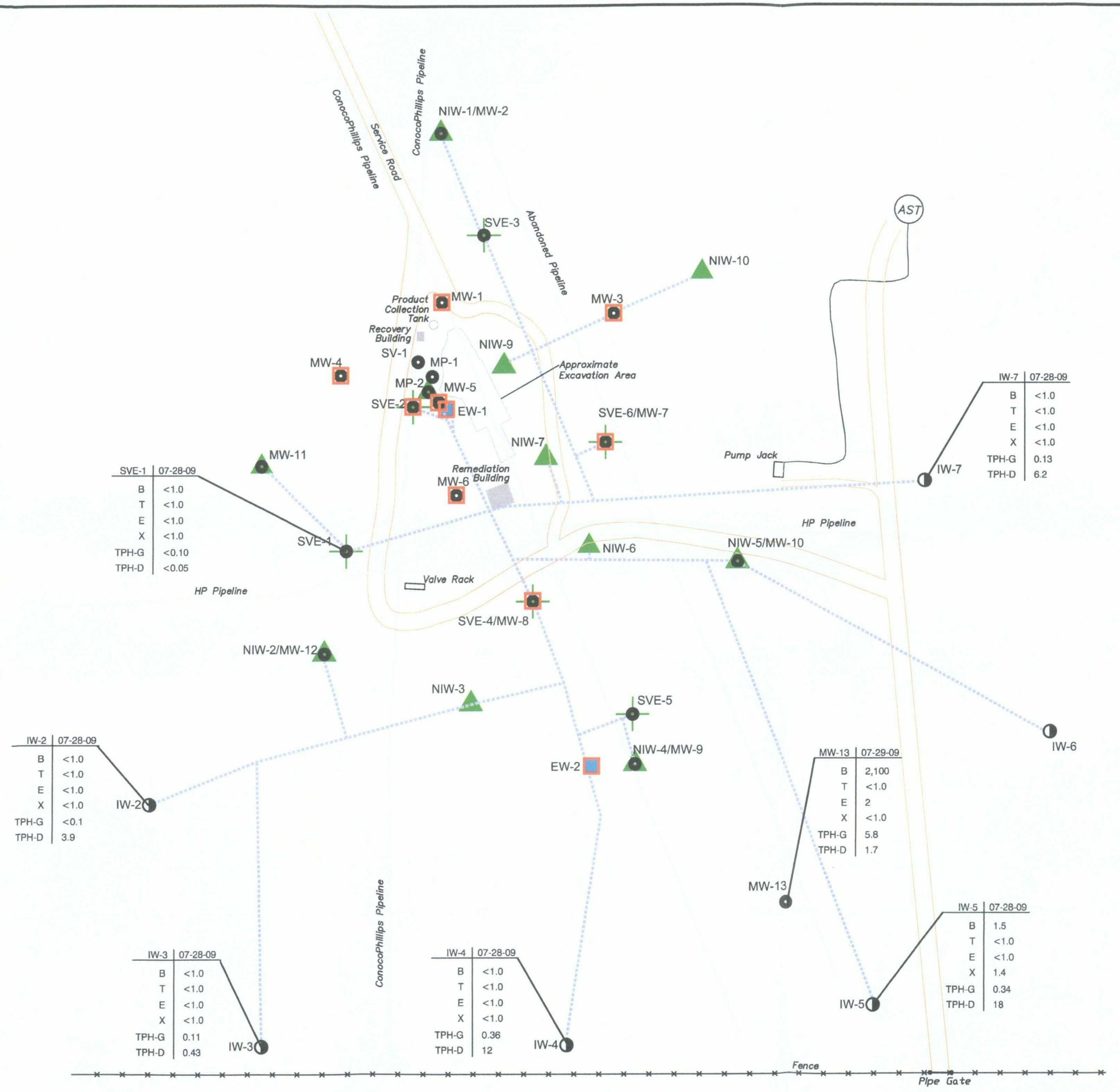
LINE NM 1-1

DATA COLLECTED : APRIL 21, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 GW Results Apr09.dwg




| SVE-1 | 07-28-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | <0.05 |

| IW-7 | 07-28-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.13 |
| TPH-D | 6.2 |

| IW-2 | 07-28-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.1 |
| TPH-D | 3.9 |

| MW-13 | 07-29-09 |
|---|---|
| B | 2,100 |
| T | <1.0 |
| E | 2 |
| X | <1.0 |
| TPH-G | 5.8 |
| TPH-D | 1.7 |

| IW-3 | 07-28-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.11 |
| TPH-D | 0.43 |

| IW-4 | 07-28-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.36 |
| TPH-D | 12 |

| IW-5 | 07-28-09 |
|---|---|
| B | 1.5 |
| T | <1.0 |
| E | <1.0 |
| X | 1.4 |
| TPH-G | 0.34 |
| TPH-D | 18 |

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

µg/L = micrograms per liter

mg/L = milligrams per liter

N

0 120 240

Scale (ft)

# FIGURE 3b : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS JULY 2009

ConocoPhillips

TETRA TECH, INC.

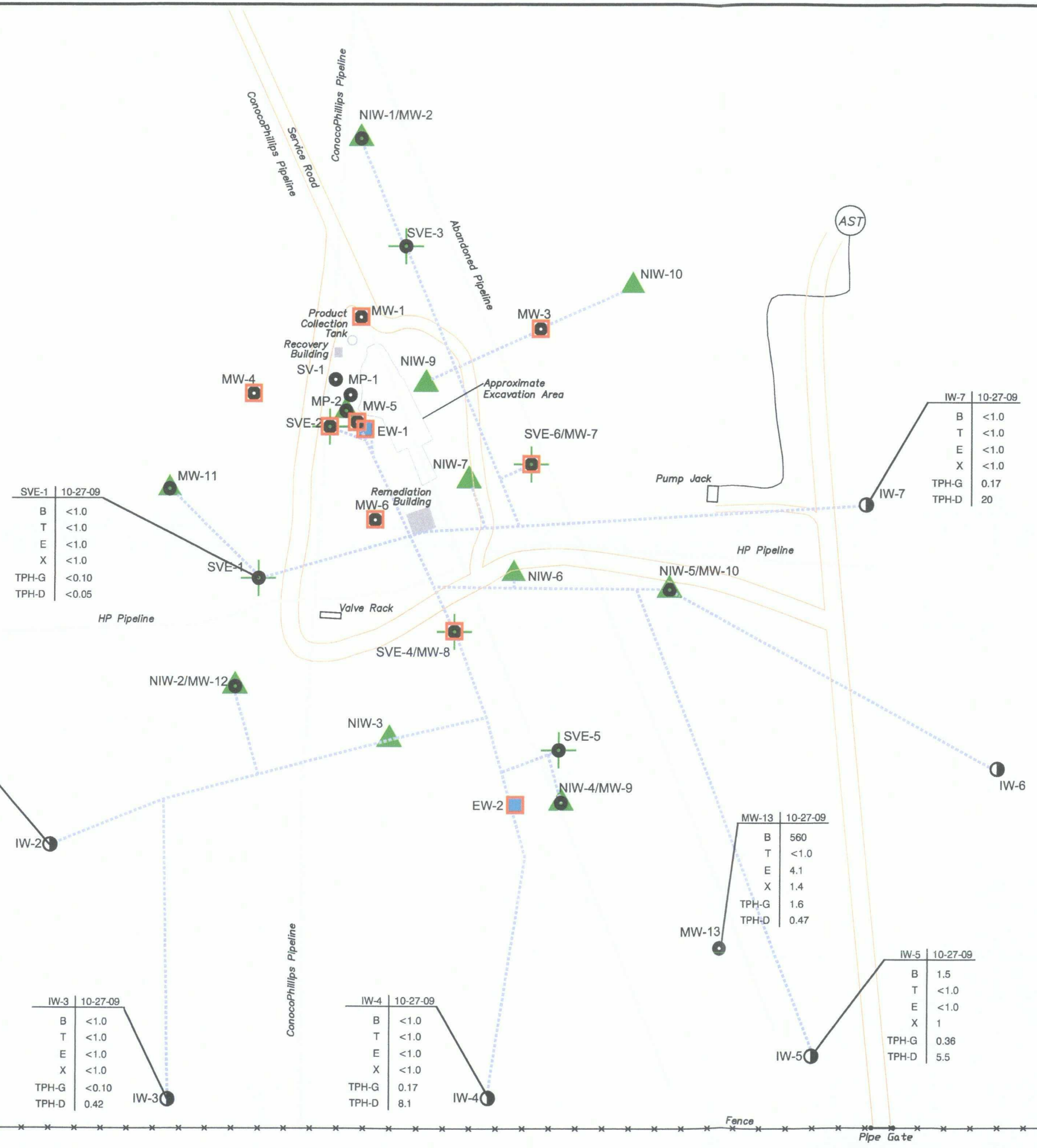
LINE NM 1-1

DATA COLLECTED : JULY 28-29, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 GW Results Jul09.dwg




| SVE-1 | 10-27-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | <0.05 |

| IW-7 | 10-27-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.17 |
| TPH-D | 20 |

| IW-2 | 10-27-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | 1.5 |

| MW-13 | 10-27-09 |
|---|---|
| B | 560 |
| T | <1.0 |
| E | 4.1 |
| X | 1.4 |
| TPH-G | 1.6 |
| TPH-D | 0.47 |

| IW-3 | 10-27-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | 0.42 |

| IW-4 | 10-27-09 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.17 |
| TPH-D | 8.1 |

| IW-5 | 10-27-09 |
|---|---|
| B | 1.5 |
| T | <1.0 |
| E | <1.0 |
| X | 1 |
| TPH-G | 0.36 |
| TPH-D | 5.5 |

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

µg/L = micrograms per liter

mg/L = milligrams per liter

N

0 120 240

Scale (ft)

FIGURE 3c : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS OCTOBER 2009

ConocoPhillips

TETRA TECH, INC.

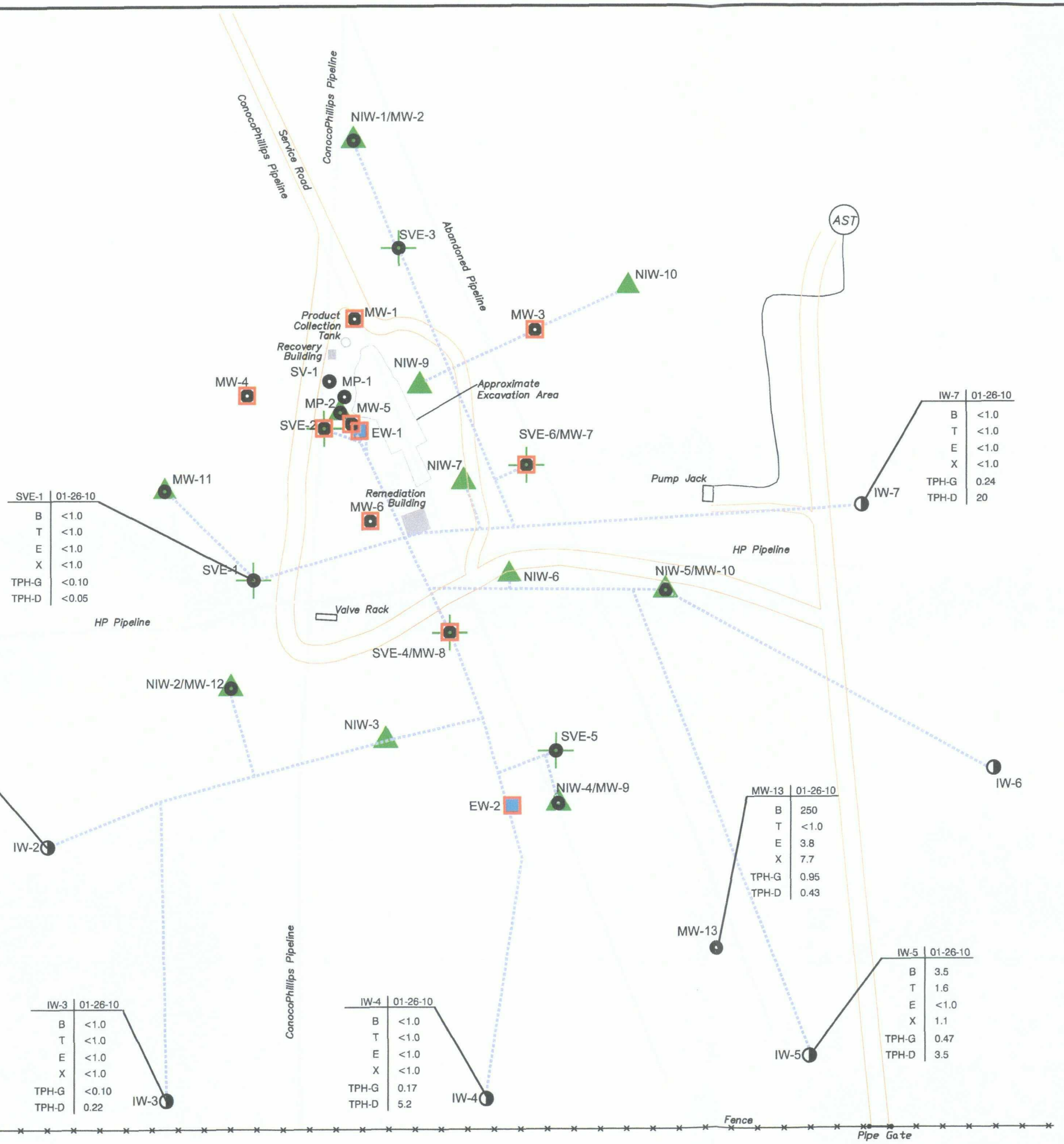
LINE NM 1-1

DATA COLLECTED : OCT 27, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 GW Results Oct09.dwg




| SVE-1 | 01-26-10 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | <0.05 |

| IW-7 | 01-26-10 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.24 |
| TPH-D | 20 |

| IW-2 | 01-26-10 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | 1.2 |

| MW-13 | 01-26-10 |
|---|---|
| B | 250 |
| T | <1.0 |
| E | 3.8 |
| X | 7.7 |
| TPH-G | 0.95 |
| TPH-D | 0.43 |

| IW-3 | 01-26-10 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | <0.10 |
| TPH-D | 0.22 |

| IW-4 | 01-26-10 |
|---|---|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |
| TPH-G | 0.17 |
| TPH-D | 5.2 |

| IW-5 | 01-26-10 |
|---|---|
| B | 3.5 |
| T | 1.6 |
| E | <1.0 |
| X | 1.1 |
| TPH-G | 0.47 |
| TPH-D | 3.5 |

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

µg/L = micrograms per liter

mg/L = milligrams per liter

N

0 120 240

Scale (ft)

# FIGURE 3d : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS JANUARY 2010

ConocoPhillips

TETRA TECH, INC.

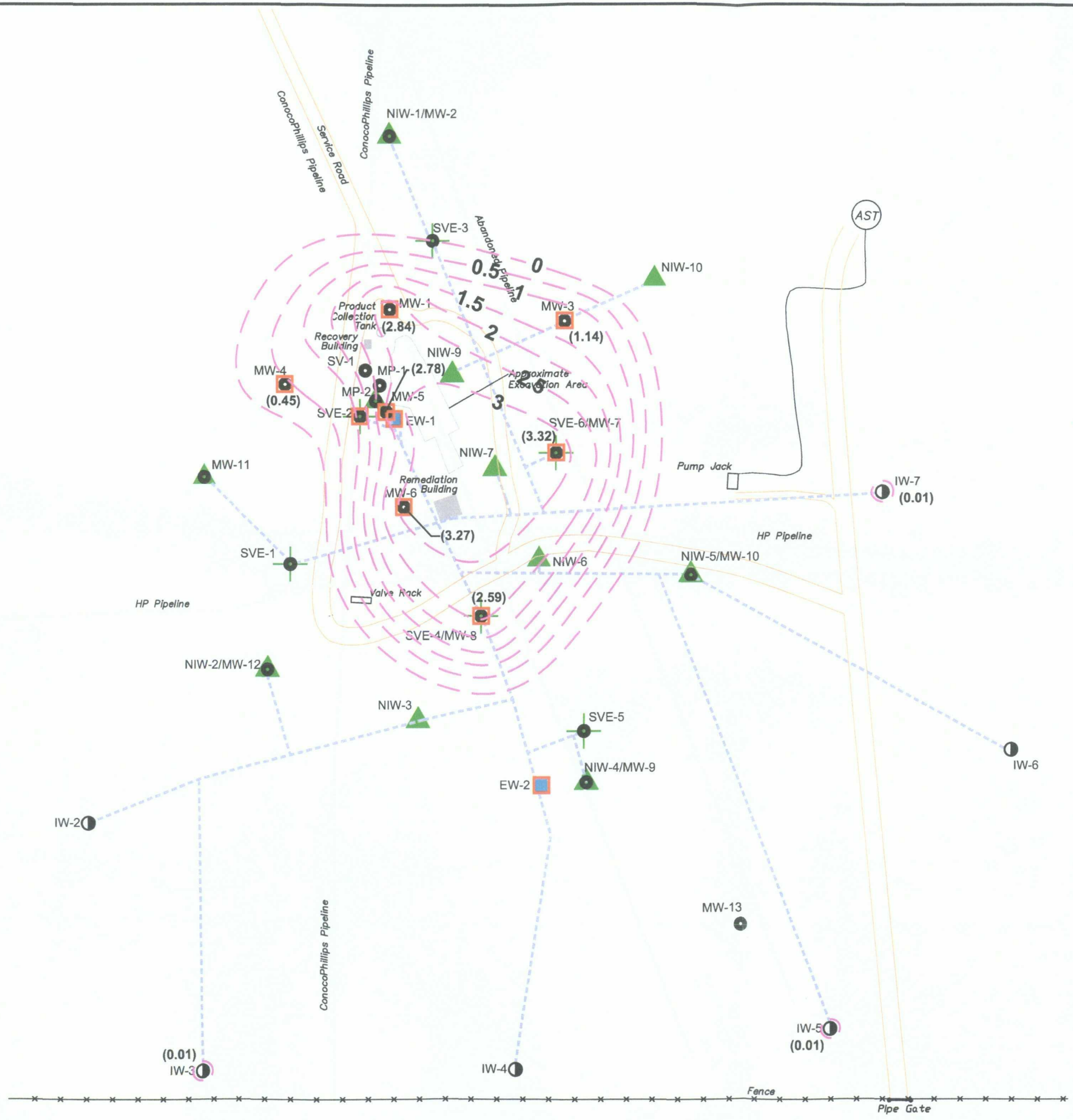
LINE NM 1-1

DATA COLLECTED : JAN 26, 2010

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 GW Results Jan10.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
- (3.32) — LPH Thickness (feet)

N

0 120 240

Scale (ft)

FIGURE 4a : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP APRIL 2009

ConocoPhillips

TETRA TECH, INC.

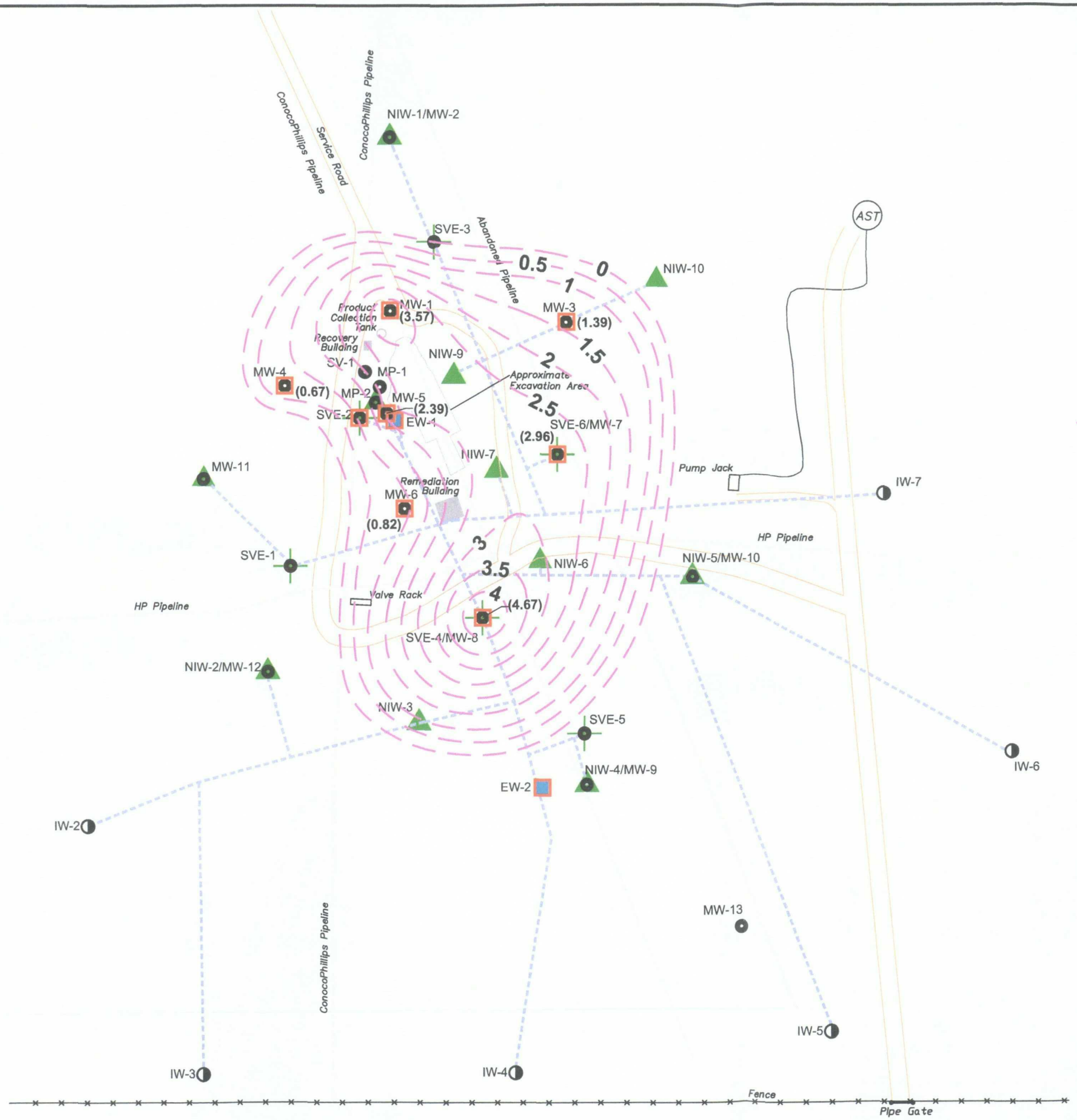
LINE NM 1-1

DATA COLLECTED : APRIL 20, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 LPH Apr09.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
- (2.96) — LPH Thickness (feet)

N

0 120 240

Scale (ft)

FIGURE 4b : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP JULY 2009

ConocoPhillips

TETRA TECH, INC.

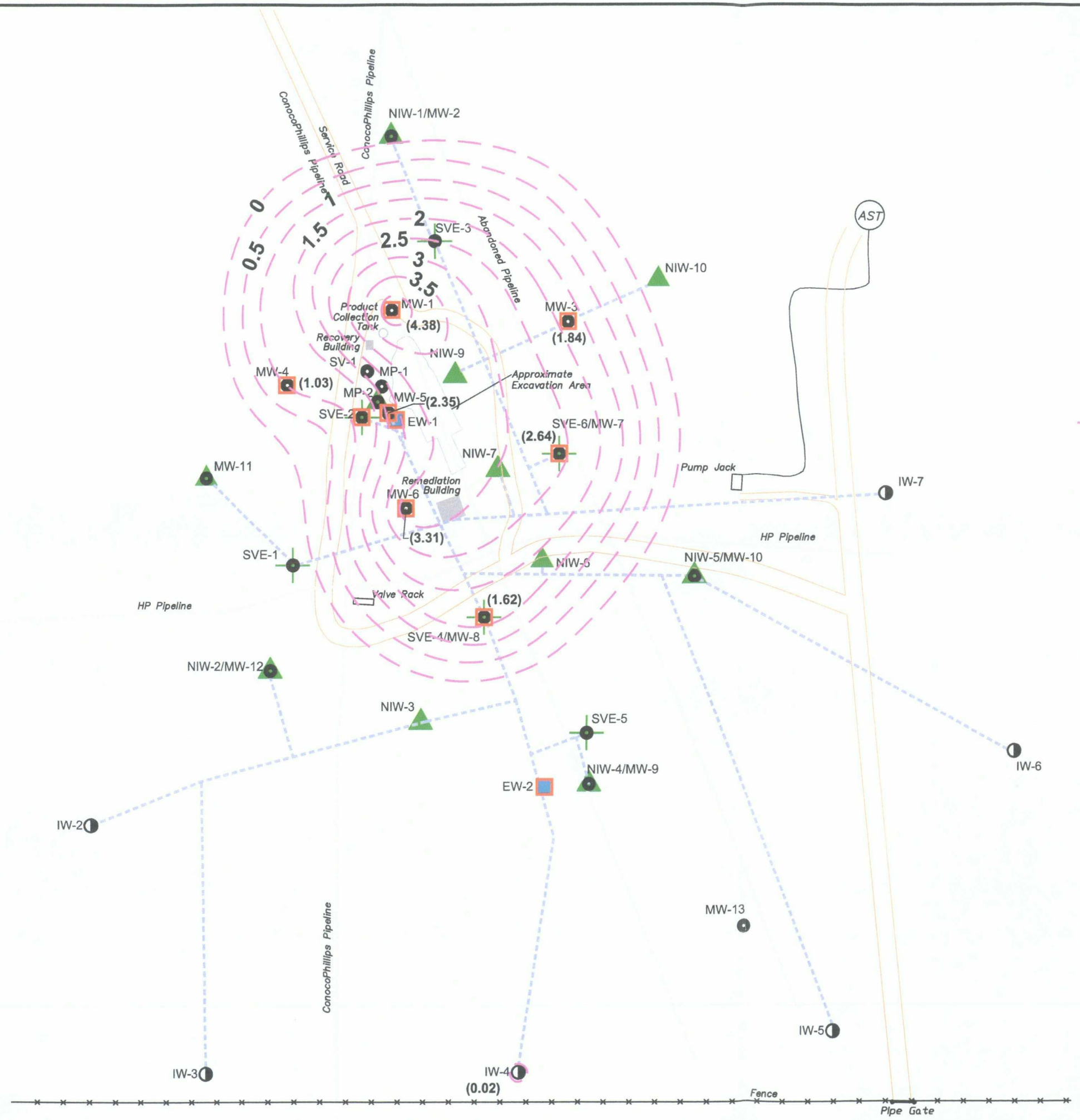
LINE NM 1-1

DATA COLLECTED : JULY 27, 2009

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 LPH Jul09.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
- (2.64) — LPH Thickness (feet)

N

0 120 240

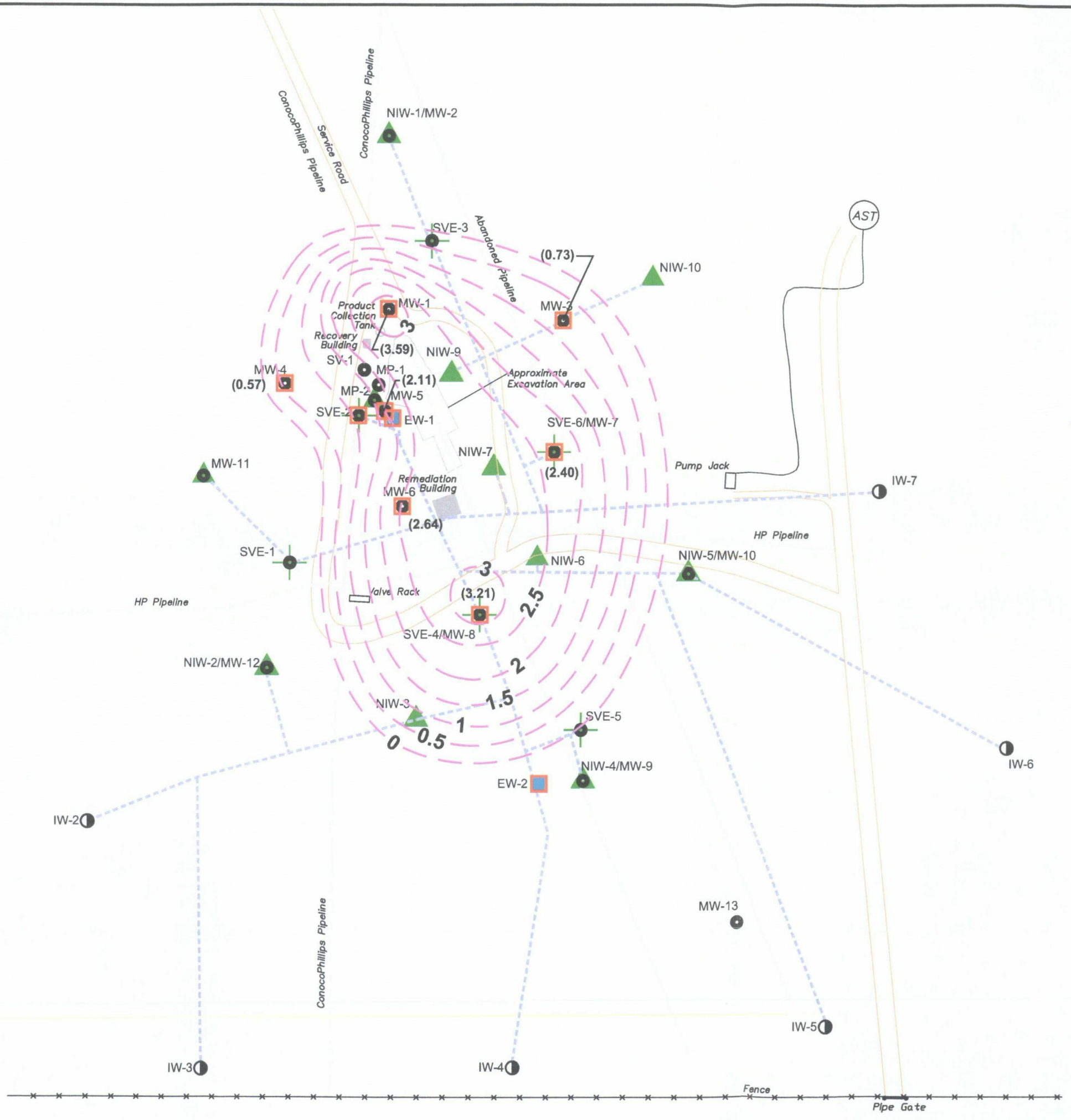
Scale (ft)

FIGURE 4c : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP OCTOBER 2009

ConocoPhillips

TETRA TECH, INC.

| | |
|---|---|
| LINE NM 1-1 | DATA COLLECTED : OCT 26, 2009 |
| LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E | PROJECT NO : 114-6400484<br>MODIFIED BY : JJ<br>DATE MODIFIED : 05/18/2010 |
| | ACAD File : NM1_1 LPH Oct09.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
- (3.59) — LPH Thickness (feet)

N

0 120 240

Scale (ft)

FIGURE 4d : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP JANUARY 2010

ConocoPhillips

TETRA TECH, INC.

LINE NM 1-1

DATA COLLECTED : JAN 25, 2010

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

PROJECT NO : 114-6400484
MODIFIED BY : JJ
DATE MODIFIED : 05/18/2010

ACAD File : NM1_1 LPH Jan10.dwg

# TABLES

**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 |
| | 03/26/07 | 3603.30 | 36.05 | 36.05 | 0.00 | 0.00 | 36.05 | 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-1 cont. | 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 |
| | 03/24/09 | 3603.30 | 38.60 | 38.55 | 0.05 | 0.04 | 38.56 | 3564.74 |

**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. | 03/30/09 | 3603.30 | 41.00 | 38.14 | 2.86 | 2.29 | 38.71 | 3564.59 |
| | 04/06/09 | 3603.30 | 41.18 | 38.35 | 2.83 | 2.26 | 38.92 | 3564.38 |
| | 04/14/09 | 3603.30 | 38.70 | 38.64 | 0.06 | 0.05 | 38.65 | 3564.65 |
| | 04/20/09 | 3603.30 | 40.78 | 37.94 | 2.84 | 2.27 | 38.51 | 3564.79 |
| | 04/28/09 | 3603.30 | 38.75 | 38.70 | 0.05 | 0.04 | 38.71 | 3564.59 |
| | 05/11/09 | 3603.30 | 38.76 | 38.69 | 0.07 | 0.06 | 38.70 | 3564.60 |
| | 05/26/09 | 3603.30 | 41.07 | 38.34 | 2.73 | 2.18 | 38.89 | 3564.41 |
| | 06/01/09 | 3603.30 | 42.00 | 38.20 | 3.80 | 3.04 | 38.96 | 3564.34 |
| | 06/02/09 | 3603.30 | 40.04 | 38.56 | 1.48 | 1.18 | 38.86 | 3564.44 |
| | 06/09/09 | 3603.30 | 41.75 | 38.27 | 3.48 | 2.78 | 38.97 | 3564.33 |
| | 06/15/09 | 3603.30 | 42.50 | 38.18 | 4.32 | 3.46 | 39.04 | 3564.26 |
| | 06/29/09 | 3603.30 | 42.92 | 38.13 | 4.79 | 3.83 | 39.09 | 3564.21 |
| | 07/06/09 | 3603.30 | 43.25 | 38.15 | 5.10 | 4.08 | 39.17 | 3564.13 |
| | 07/14/09 | 3603.30 | 43.17 | 38.05 | 5.12 | 4.10 | 39.07 | 3564.23 |
| | 07/06/09 | 3603.30 | 43.25 | 38.15 | 5.10 | 4.08 | 39.17 | 3564.13 |
| | 07/14/09 | 3603.30 | 43.17 | 38.05 | 5.12 | 4.10 | 39.07 | 3564.23 |
| | 07/20/09 | 3603.30 | 38.91 | 38.91 | 0.00 | 0.00 | 38.91 | 3564.39 |
| | 07/27/09 | 3603.30 | 41.77 | 38.20 | 3.57 | 2.86 | 38.91 | 3564.39 |
| | 08/03/09 | 3603.30 | 39.10 | 38.93 | 0.17 | 0.14 | 38.96 | 3564.34 |
| | 08/04/09 | 3603.30 | 38.90 | 38.90 | 0.00 | 0.00 | 38.90 | 3564.40 |
| | 08/12/09 | 3603.30 | 42.05 | 38.24 | 3.81 | 3.05 | 39.00 | 3564.30 |
| | 08/24/09 | 3603.30 | 38.96 | 38.91 | 0.05 | 0.04 | 38.92 | 3564.38 |
| | 08/31/09 | 3603.30 | 41.80 | 38.15 | 3.65 | 2.92 | 38.88 | 3564.42 |
| | 09/08/09 | 3603.30 | 39.00 | 38.79 | 0.21 | 0.17 | 38.83 | 3564.47 |
| | 09/16/09 | 3603.30 | 42.60 | 38.08 | 4.52 | 3.62 | 38.98 | 3564.32 |
| | 09/28/09 | 3603.30 | 38.82 | 38.71 | 0.11 | 0.09 | 38.73 | 3564.57 |
| | 10/05/09 | 3603.30 | 39.10 | 38.90 | 0.20 | 0.16 | 38.94 | 3564.36 |
| | 10/12/09 | 3603.30 | 41.75 | 38.26 | 3.49 | 2.79 | 38.96 | 3564.34 |
| | 10/26/09 | 3603.30 | 42.56 | 38.18 | 4.38 | 3.50 | 39.06 | 3564.24 |
| | 11/03/09 | 3603.30 | 39.00 | 38.90 | 0.10 | 0.08 | 38.92 | 3564.38 |
| | 11/10/09 | 3603.30 | 41.88 | 38.35 | 3.53 | 2.82 | 39.06 | 3564.24 |
| | 11/23/09 | 3603.30 | 39.00 | 38.95 | 0.05 | 0.04 | 38.96 | 3564.34 |
| | 11/30/09 | 3603.30 | 41.89 | 38.43 | 3.46 | 2.77 | 39.12 | 3564.18 |
| | 12/07/09 | 3603.30 | 39.01 | 38.95 | 0.06 | 0.05 | 38.96 | 3564.34 |
| | 12/22/09 | 3603.30 | 42.70 | 38.38 | 4.32 | 3.46 | 39.24 | 3564.06 |
| | 01/04/10 | 3603.30 | 40.25 | 38.88 | 1.37 | 1.10 | 39.15 | 3564.15 |
| | 01/11/10 | 3603.30 | 42.30 | 38.54 | 3.76 | 3.01 | 39.29 | 3564.01 |
| | 01/18/10 | 3603.30 | 39.17 | 39.15 | 0.02 | 0.02 | 39.15 | 3564.15 |
| | 01/25/10 | 3603.30 | 42.20 | 38.61 | 3.59 | 2.87 | 39.33 | 3563.97 |
| | 02/01/10 | 3603.30 | 39.30 | 39.23 | 0.07 | 0.06 | 39.24 | 3564.06 |
| | 02/08/10 | 3603.30 | 42.27 | 38.65 | 3.62 | 2.90 | 39.37 | 3563.93 |
| | 02/22/10 | 3603.30 | 39.30 | 39.24 | 0.06 | 0.05 | 39.25 | 3564.05 |
| | 03/01/10 | 3603.30 | 42.27 | 38.70 | 3.57 | 2.86 | 39.41 | 3563.89 |
| | 03/08/10 | 3603.30 | 39.29 | 39.25 | 0.04 | 0.03 | 39.26 | 3564.04 |
| | 03/22/10 | 3603.30 | 43.00 | 38.58 | 4.42 | 3.54 | 39.46 | 3563.84 |
| 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 |

**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. | 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 |
| | 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 |

**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. | 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 |
| | 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 |
| | 03/24/09 | 3602.77 | 40.67 | 39.30 | 1.37 | 1.10 | 39.57 | 3563.20 |
| | 04/06/09 | 3602.77 | 40.63 | 39.38 | 1.25 | 1.00 | 39.63 | 3563.14 |
| | 04/14/09 | 3602.77 | 39.73 | 39.57 | 0.16 | 0.13 | 39.60 | 3563.17 |
| | 04/20/09 | 3602.77 | 40.29 | 39.15 | 1.14 | 0.91 | 39.38 | 3563.39 |
| | 04/28/09 | 3602.77 | 39.84 | 39.61 | 0.23 | 0.18 | 39.66 | 3563.11 |
| | 05/11/09 | 3602.77 | 39.85 | 39.65 | 0.20 | 0.16 | 39.69 | 3563.08 |
| | 05/26/09 | 3602.77 | 40.28 | 39.58 | 0.70 | 0.56 | 39.72 | 3563.05 |
| | 06/01/09 | 3602.77 | 41.05 | 39.47 | 1.58 | 1.26 | 39.79 | 3562.98 |
| | 06/02/09 | 3602.77 | 41.10 | 39.18 | 1.92 | 1.54 | 39.56 | 3563.21 |
| | 06/09/09 | 3602.77 | 41.70 | 39.42 | 2.28 | 1.82 | 39.88 | 3562.89 |
| | 06/15/09 | 3602.77 | 41.75 | 39.38 | 2.37 | 1.90 | 39.85 | 3562.92 |
| | 06/29/09 | 3602.77 | 42.00 | 39.42 | 2.58 | 2.06 | 39.94 | 3562.83 |
| | 07/06/09 | 3602.77 | 43.25 | 38.15 | 5.10 | 4.08 | 39.17 | 3563.60 |
| | 07/14/09 | 3602.77 | 43.17 | 38.05 | 5.12 | 4.10 | 39.07 | 3563.70 |
| | 07/20/09 | 3602.77 | 38.91 | 38.91 | 0.00 | 0.00 | 38.91 | 3563.86 |
| | 07/27/09 | 3602.77 | 40.88 | 39.49 | 1.39 | 1.11 | 39.77 | 3563.00 |
| | 08/03/09 | 3602.77 | 39.88 | 39.78 | 0.10 | 0.08 | 39.80 | 3562.97 |
| | 08/04/09 | 3602.77 | 39.86 | 39.81 | 0.05 | 0.04 | 39.82 | 3562.95 |

**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. | 08/12/09 | 3602.77 | 40.95 | 39.51 | 1.44 | 1.15 | 39.80 | 3562.97 |
| | 08/24/09 | 3602.77 | 39.72 | 39.72 | 0.00 | 0.00 | 39.72 | 3563.05 |
| | 08/31/09 | 3602.77 | 41.05 | 39.33 | 1.72 | 1.38 | 39.67 | 3563.10 |
| | 09/08/09 | 3602.77 | 39.85 | 39.60 | 0.25 | 0.20 | 39.65 | 3563.12 |
| | 09/16/09 | 3602.77 | 42.60 | 38.08 | 4.52 | 3.62 | 38.98 | 3563.79 |
| | 09/28/09 | 3602.77 | 39.73 | 39.65 | 0.08 | 0.06 | 39.67 | 3563.10 |
| | 10/05/09 | 3602.77 | 40.98 | 39.43 | 1.55 | 1.24 | 39.74 | 3563.03 |
| | 10/12/09 | 3602.77 | 39.79 | 39.79 | 0.00 | 0.00 | 39.79 | 3562.98 |
| | 10/26/09 | 3602.77 | 41.33 | 39.49 | 1.84 | 1.47 | 39.86 | 3562.91 |
| | 11/03/09 | 3602.77 | 39.88 | 39.84 | 0.04 | 0.03 | 39.85 | 3562.92 |
| | 11/10/09 | 3602.77 | 38.53 | 38.68 | -0.15 | -0.12 | 38.65 | 3564.12 |
| | 11/23/09 | 3602.77 | 39.96 | 39.87 | 0.09 | 0.07 | 39.89 | 3562.88 |
| | 11/30/09 | 3602.77 | 40.56 | 39.76 | 0.80 | 0.64 | 39.92 | 3562.85 |
| | 12/07/09 | 3602.77 | 40.03 | 39.88 | 0.15 | 0.12 | 39.91 | 3562.86 |
| | 12/22/09 | 3602.77 | 41.05 | 39.77 | 1.28 | 1.02 | 40.03 | 3562.74 |
| | 01/04/10 | 3602.77 | 40.06 | 39.99 | 0.07 | 0.06 | 40.00 | 3562.77 |
| | 01/11/10 | 3602.77 | 40.08 | 40.05 | 0.03 | 0.02 | 40.06 | 3562.71 |
| | 01/18/10 | 3602.77 | 40.66 | 39.93 | 0.73 | 0.58 | 40.08 | 3562.69 |
| | 01/25/10 | 3602.77 | 40.69 | 39.96 | 0.73 | 0.58 | 40.11 | 3562.66 |
| | 02/01/10 | 3602.77 | 39.30 | 39.23 | 0.07 | 0.06 | 39.24 | 3563.53 |
| | 02/08/10 | 3602.77 | 40.71 | 40.04 | 0.67 | 0.54 | 40.17 | 3562.60 |
| | 02/22/10 | 3602.77 | 40.26 | 40.16 | 0.10 | 0.08 | 40.18 | 3562.59 |
| | 03/01/10 | 3602.77 | 40.85 | 40.06 | 0.79 | 0.63 | 40.22 | 3562.55 |
| | 03/08/10 | 3602.77 | 40.26 | 40.11 | 0.15 | 0.12 | 40.14 | 3562.63 |
| | 03/22/10 | 3602.77 | 41.30 | 40.00 | 1.30 | 1.04 | 40.26 | 3562.51 |
| 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 |

**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. | 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 |
| | 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 |

**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. | 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 |
| | 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 |
| | 03/24/09 | 3601.70 | 37.31 | 37.26 | 0.05 | 0.04 | 37.27 | 3564.43 |
| | 03/30/09 | 3601.70 | 37.39 | 37.30 | 0.09 | 0.07 | 37.32 | 3564.38 |
| | 04/06/09 | 3601.70 | 37.45 | 37.30 | 0.15 | 0.12 | 37.33 | 3564.37 |
| | 04/14/09 | 3601.70 | 37.60 | 37.31 | 0.29 | 0.23 | 37.37 | 3564.33 |
| | 04/20/09 | 3601.70 | 37.48 | 37.03 | 0.45 | 0.36 | 37.12 | 3564.58 |
| | 04/28/09 | 3601.70 | 37.94 | 37.30 | 0.64 | 0.51 | 37.43 | 3564.27 |
| | 05/11/09 | 3601.70 | 38.37 | 37.25 | 1.12 | 0.90 | 37.47 | 3564.23 |
| | 05/26/09 | 3601.70 | 38.60 | 37.27 | 1.33 | 1.06 | 37.54 | 3564.16 |
| | 06/01/09 | 3601.70 | 38.66 | 37.30 | 1.36 | 1.09 | 37.57 | 3564.13 |
| | 06/02/09 | 3601.70 | 39.60 | 37.30 | 2.30 | 1.84 | 37.76 | 3563.94 |
| | 06/09/09 | 3601.70 | 37.69 | 37.46 | 0.23 | 0.18 | 37.51 | 3564.19 |
| | 06/15/09 | 3601.70 | 37.63 | 37.47 | 0.16 | 0.13 | 37.50 | 3564.20 |
| | 06/29/09 | 3601.70 | 38.40 | 37.40 | 1.00 | 0.80 | 37.60 | 3564.10 |
| | 07/09/09 | 3601.70 | 37.76 | 37.54 | 0.22 | 0.18 | 37.58 | 3564.12 |
| | 07/14/09 | 3601.70 | 37.84 | 37.54 | 0.30 | 0.24 | 37.60 | 3564.10 |
| | 07/20/09 | 3601.70 | 37.83 | 37.57 | 0.26 | 0.21 | 37.62 | 3564.08 |
| | 07/27/09 | 3601.70 | 38.06 | 37.39 | 0.67 | 0.54 | 37.52 | 3564.18 |
| | 08/03/09 | 3601.70 | 37.81 | 37.57 | 0.24 | 0.19 | 37.62 | 3564.08 |
| | 08/04/09 | 3601.70 | 37.85 | 37.58 | 0.27 | 0.22 | 37.63 | 3564.07 |
| | 08/12/09 | 3601.70 | 37.75 | 37.55 | 0.20 | 0.16 | 37.59 | 3564.11 |
| | 08/24/09 | 3601.70 | 38.42 | 37.37 | 1.05 | 0.84 | 37.58 | 3564.12 |
| | 08/31/09 | 3601.70 | 37.65 | 37.48 | 0.17 | 0.14 | 37.51 | 3564.19 |
| | 09/08/09 | 3601.70 | 37.73 | 37.43 | 0.30 | 0.24 | 37.49 | 3564.21 |
| | 09/16/09 | 3601.70 | 38.38 | 37.28 | 1.10 | 0.88 | 37.50 | 3564.20 |
| | 09/28/09 | 3601.70 | 37.58 | 37.49 | 0.09 | 0.07 | 37.51 | 3564.19 |
| | 10/05/09 | 3602.77 | 38.34 | 37.36 | 0.98 | 0.78 | 37.56 | 3565.21 |
| | 10/12/09 | 3602.77 | 37.70 | 37.55 | 0.15 | 0.12 | 37.58 | 3565.19 |
| | 10/26/09 | 3602.77 | 38.45 | 37.42 | 1.03 | 0.82 | 37.63 | 3565.14 |
| | 11/03/09 | 3602.77 | 37.72 | 37.60 | 0.12 | 0.10 | 37.62 | 3565.15 |
| | 11/10/09 | 3602.77 | 38.37 | 37.50 | 0.87 | 0.70 | 37.67 | 3565.10 |
| | 11/23/09 | 3602.77 | 37.77 | 37.67 | 0.10 | 0.08 | 37.69 | 3565.08 |
| | 11/30/09 | 3602.77 | 38.36 | 37.56 | 0.80 | 0.64 | 37.72 | 3565.05 |
| | 12/07/09 | 3602.77 | 37.79 | 37.70 | 0.09 | 0.07 | 37.72 | 3565.05 |
| | 12/22/09 | 3602.77 | 37.82 | 37.75 | 0.07 | 0.06 | 37.76 | 3565.01 |
| | 01/04/10 | 3602.77 | 38.42 | 37.69 | 0.73 | 0.58 | 37.84 | 3564.93 |
| | 01/11/10 | 3602.77 | 38.38 | 37.72 | 0.66 | 0.53 | 37.85 | 3564.92 |
| | 01/18/10 | 3602.77 | 37.88 | 37.84 | 0.04 | 0.03 | 37.85 | 3564.92 |
| | 01/25/10 | 3602.77 | 38.37 | 37.80 | 0.57 | 0.46 | 37.91 | 3564.86 |
| | 02/01/10 | 3602.77 | 37.91 | 37.90 | 0.01 | 0.01 | 37.90 | 3564.87 |
| | 02/08/10 | 3602.77 | 38.30 | 37.86 | 0.44 | 0.35 | 37.95 | 3564.82 |
| | 02/22/10 | 3602.77 | 38.01 | 37.94 | 0.07 | 0.06 | 37.95 | 3564.82 |

**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. | 03/01/10 | 3602.77 | 38.29 | 37.91 | 0.38 | 0.30 | 37.99 | 3564.78 |
| | 03/08/10 | 3602.77 | 38.05 | 37.95 | 0.10 | 0.08 | 37.97 | 3564.80 |
| | 03/22/10 | 3602.77 | 38.34 | 37.93 | 0.41 | 0.33 | 38.01 | 3564.76 |
| 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 |
| | 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 |

**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. | 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 |
| | 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 |

**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. | 03/02/09 | 3601.54 | 40.71 | 37.80 | 2.91 | 2.33 | 38.38 | 3563.16 |
| | 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 |
| | 03/24/09 | 3601.54 | 38.41 | 38.36 | 0.05 | 0.04 | 38.37 | 3563.17 |
| | 03/30/09 | 3601.54 | 40.72 | 39.82 | 0.90 | 0.72 | 40.00 | 3561.54 |
| | 04/06/09 | 3601.54 | 38.46 | 38.41 | 0.05 | 0.04 | 38.42 | 3563.12 |
| | 04/14/09 | 3601.54 | 40.68 | 37.88 | 2.80 | 2.24 | 38.44 | 3563.10 |
| | 04/20/09 | 3601.54 | 40.37 | 37.59 | 2.78 | 2.22 | 38.15 | 3563.39 |
| | 04/28/09 | 3601.54 | 38.58 | 38.48 | 0.10 | 0.08 | 38.50 | 3563.04 |
| | 05/11/09 | 3601.54 | 38.60 | 38.50 | 0.10 | 0.08 | 38.52 | 3563.02 |
| | 05/26/09 | 3601.54 | 38.70 | 38.51 | 0.19 | 0.15 | 38.55 | 3562.99 |
| | 06/01/09 | 3601.54 | 38.61 | 38.54 | 0.07 | 0.06 | 38.55 | 3562.99 |
| | 06/02/09 | 3601.54 | 38.80 | 38.74 | 0.06 | 0.05 | 38.75 | 3562.79 |
| | 06/09/09 | 3601.54 | 40.57 | 38.00 | 2.57 | 2.06 | 38.51 | 3563.03 |
| | 06/15/09 | 3601.54 | 38.85 | 38.58 | 0.27 | 0.22 | 38.63 | 3562.91 |
| | 06/29/09 | 3601.54 | 40.50 | 38.02 | 2.48 | 1.98 | 38.52 | 3563.02 |
| | 07/06/09 | 3601.54 | 38.66 | 38.65 | 0.01 | 0.01 | 38.65 | 3562.89 |
| | 07/14/09 | 3601.54 | 40.49 | 38.06 | 2.43 | 1.94 | 38.55 | 3562.99 |
| | 07/20/09 | 3601.54 | 38.88 | 38.87 | 0.01 | 0.01 | 38.87 | 3562.67 |
| | 07/27/09 | 3601.54 | 40.33 | 37.94 | 2.39 | 1.91 | 38.42 | 3563.12 |
| | 08/03/09 | 3601.54 | 39.04 | 38.98 | 0.06 | 0.05 | 38.99 | 3562.55 |
| | 08/04/09 | 3601.54 | 38.79 | 38.78 | 0.01 | 0.01 | 38.78 | 3562.76 |
| | 08/12/09 | 3601.54 | 40.05 | 38.03 | 2.02 | 1.62 | 38.43 | 3563.11 |
| | 08/24/09 | 3601.54 | 38.75 | 38.74 | 0.01 | 0.01 | 38.74 | 3562.80 |
| | 08/31/09 | 3601.54 | 40.45 | 38.95 | 1.50 | 1.20 | 39.25 | 3562.29 |
| | 09/08/09 | 3601.54 | 39.25 | 39.10 | 0.15 | 0.12 | 39.13 | 3562.41 |
| | 09/16/09 | 3601.54 | 40.40 | 39.91 | 0.49 | 0.39 | 40.01 | 3561.53 |
| | 09/28/09 | 3601.54 | 38.67 | 38.60 | 0.07 | 0.06 | 38.61 | 3562.93 |
| | 10/05/09 | 3602.77 | 38.86 | 38.85 | 0.01 | 0.01 | 38.85 | 3563.92 |
| | 10/12/09 | 3602.77 | 40.40 | 38.00 | 2.40 | 1.92 | 38.48 | 3564.29 |
| | 10/26/09 | 3602.77 | 40.40 | 38.05 | 2.35 | 1.88 | 38.52 | 3564.25 |
| | 11/03/09 | 3602.77 | 40.39 | 38.07 | 2.32 | 1.86 | 38.53 | 3564.24 |
| | 11/10/09 | 3602.77 | 38.93 | 38.92 | 0.01 | 0.01 | 38.92 | 3563.85 |
| | 11/23/09 | 3602.77 | 40.38 | 38.10 | 2.28 | 1.82 | 38.56 | 3564.21 |
| | 11/30/09 | 3602.77 | 38.71 | 38.69 | 0.02 | 0.02 | 38.69 | 3564.08 |
| | 12/07/09 | 3602.77 | 40.40 | 38.07 | 2.33 | 1.86 | 38.54 | 3564.23 |
| | 12/22/09 | 3602.77 | 40.19 | 38.38 | 1.81 | 1.45 | 38.74 | 3564.03 |
| | 01/04/10 | 3602.77 | 40.40 | 38.22 | 2.18 | 1.74 | 38.66 | 3564.11 |
| | 01/11/10 | 3602.77 | 40.38 | 38.26 | 2.12 | 1.70 | 38.68 | 3564.09 |
| | 01/18/10 | 3602.77 | 40.40 | 38.28 | 2.12 | 1.70 | 38.70 | 3564.07 |
| | 01/25/10 | 3602.77 | 40.40 | 38.29 | 2.11 | 1.69 | 38.71 | 3564.06 |
| | 02/01/10 | 3602.77 | 40.41 | 38.33 | 2.08 | 1.66 | 38.75 | 3564.02 |
| | 02/08/10 | 3602.77 | 40.42 | 38.36 | 2.06 | 1.65 | 38.77 | 3564.00 |
| | 02/22/10 | 3602.77 | 40.42 | 38.39 | 2.03 | 1.62 | 38.80 | 3563.97 |
| | 03/01/10 | 3602.77 | 40.42 | 38.40 | 2.02 | 1.62 | 38.80 | 3563.97 |
| | 03/08/10 | 3602.77 | 38.93 | 38.92 | 0.01 | 0.01 | 38.92 | 3563.85 |
| | 03/22/10 | 3602.77 | 39.11 | 39.04 | 0.07 | 0.06 | 39.05 | 3563.72 |
| MW-6 | 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 |

**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. | 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 |
| | 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 |

**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. | 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 |
| | 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 |
| | 03/24/09 | 3599.83 | 36.68 | | 0.00 | 0.00 | 36.68 | 3563.15 |
| | 03/30/09 | 3599.83 | 39.35 | 36.20 | 3.15 | 2.52 | 36.83 | 3563.00 |
| | 04/06/09 | 3599.83 | 36.71 | | 0.00 | 0.00 | 36.71 | 3563.12 |
| | 04/14/09 | 3599.83 | 39.51 | 36.24 | 3.27 | 2.62 | 36.89 | 3562.94 |
| | 04/20/09 | 3599.83 | 39.24 | 35.97 | 3.27 | 2.62 | 36.62 | 3563.21 |
| | 04/28/09 | 3599.83 | 36.85 | 36.74 | 0.11 | 0.09 | 36.76 | 3563.07 |
| | 05/11/09 | 3599.83 | 36.80 | | 0.00 | 0.00 | 36.80 | 3563.03 |
| | 05/26/09 | 3599.83 | 40.00 | 36.26 | 3.74 | 2.99 | 37.01 | 3562.82 |
| | 06/01/09 | 3599.83 | 36.92 | 36.88 | 0.04 | 0.03 | 36.89 | 3562.94 |
| | 06/02/09 | 3599.83 | 37.70 | 37.30 | 0.40 | 0.32 | 37.38 | 3562.45 |
| | 06/09/09 | 3599.83 | 37.40 | 36.79 | 0.61 | 0.49 | 36.91 | 3562.92 |
| | 06/15/09 | 3599.83 | 37.49 | 36.75 | 0.74 | 0.59 | 36.90 | 3562.93 |
| | 06/29/09 | 3599.83 | 39.80 | 36.38 | 3.42 | 2.74 | 37.06 | 3562.77 |
| | 07/06/09 | 3599.83 | 37.51 | 36.85 | 0.66 | 0.53 | 36.98 | 3562.85 |
| | 07/14/09 | 3599.83 | 37.41 | 36.89 | 0.52 | 0.42 | 36.99 | 3562.84 |
| | 07/20/09 | 3599.83 | 37.49 | 36.92 | 0.57 | 0.46 | 37.03 | 3562.80 |
| | 07/27/09 | 3599.83 | 37.24 | 36.42 | 0.82 | 0.66 | 36.58 | 3563.25 |
| | 08/03/09 | 3599.83 | 38.85 | 36.67 | 2.18 | 1.74 | 37.11 | 3562.72 |
| | 08/04/09 | 3599.83 | 37.53 | 36.92 | 0.61 | 0.49 | 37.04 | 3562.79 |
| | 08/12/09 | 3599.83 | 37.50 | 36.88 | 0.62 | 0.50 | 37.00 | 3562.83 |
| | 08/24/09 | 3599.83 | 37.57 | 36.82 | 0.75 | 0.60 | 36.97 | 3562.86 |
| | 08/31/09 | 3599.83 | 37.53 | 36.81 | 0.72 | 0.58 | 36.95 | 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 |
|---|---|---|---|---|---|---|---|---|
| MW-6 cont. | 09/08/09 | 3599.83 | 39.02 | 36.56 | 2.46 | 1.97 | 37.05 | 3562.78 |
| | 09/16/09 | 3599.83 | 37.48 | 36.78 | 0.70 | 0.56 | 36.92 | 3562.91 |
| | 09/28/09 | 3599.83 | 37.52 | 36.80 | 0.72 | 0.58 | 36.94 | 3562.89 |
| | 10/05/09 | 3602.77 | 38.83 | 36.59 | 2.24 | 1.79 | 37.04 | 3565.73 |
| | 10/12/09 | 3602.77 | 37.60 | 36.84 | 0.76 | 0.61 | 36.99 | 3565.78 |
| | 10/26/09 | 3602.77 | 39.77 | 36.46 | 3.31 | 2.65 | 37.12 | 3565.65 |
| | 11/03/09 | 3602.77 | 37.62 | 36.91 | 0.71 | 0.57 | 37.05 | 3565.72 |
| | 11/10/09 | 3602.77 | 37.64 | 36.92 | 0.72 | 0.58 | 37.06 | 3565.71 |
| | 11/23/09 | 3602.77 | 37.65 | 36.90 | 0.75 | 0.60 | 37.05 | 3565.72 |
| | 11/30/09 | 3602.77 | 37.37 | 36.98 | 0.39 | 0.31 | 37.06 | 3565.71 |
| | 12/07/09 | 3602.77 | 37.91 | 36.95 | 0.96 | 0.77 | 37.14 | 3565.63 |
| | 12/22/09 | 3602.77 | 37.74 | 37.06 | 0.68 | 0.54 | 37.20 | 3565.57 |
| | 01/04/10 | 3602.77 | 39.14 | 36.87 | 2.27 | 1.82 | 37.32 | 3565.45 |
| | 01/11/10 | 3602.77 | 39.60 | 36.79 | 2.81 | 2.25 | 37.35 | 3565.42 |
| | 01/18/10 | 3602.77 | 37.88 | 37.11 | 0.77 | 0.62 | 37.26 | 3565.51 |
| | 01/25/10 | 3602.77 | 39.48 | 36.84 | 2.64 | 2.11 | 37.37 | 3565.40 |
| | 02/01/10 | 3602.77 | 37.90 | 37.20 | 0.70 | 0.56 | 37.34 | 3565.43 |
| | 02/08/10 | 3602.77 | 38.43 | 37.11 | 1.32 | 1.06 | 37.37 | 3565.40 |
| | 02/22/10 | 3602.77 | 37.95 | 37.28 | 0.67 | 0.54 | 37.41 | 3565.36 |
| | 03/01/10 | 3602.77 | 37.93 | 37.28 | 0.65 | 0.52 | 37.41 | 3565.36 |
| | 03/08/10 | 3602.77 | 37.95 | 37.28 | 0.67 | 0.54 | 37.41 | 3565.36 |
| | 03/22/10 | 3602.77 | 37.96 | 37.30 | 0.66 | 0.53 | 37.43 | 3565.34 |
| 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 |

**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. | 08/02/06 | 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 |
| | 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 |

**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. | 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 |
| | 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 |
| | 03/24/09 | 3602.11 | 40.45 | 38.87 | 1.58 | 1.26 | 39.19 | 3562.92 |
| | 03/30/09 | 3602.11 | 42.25 | 38.00 | 4.25 | 3.40 | 38.85 | 3563.26 |
| | 04/06/09 | 3602.11 | 42.19 | 39.00 | 3.19 | 2.55 | 39.64 | 3562.47 |
| | 04/14/09 | 3602.11 | 42.15 | 38.96 | 3.19 | 2.55 | 39.60 | 3562.51 |
| | 04/20/09 | 3602.11 | 42.00 | 38.68 | 3.32 | 2.66 | 39.34 | 3562.77 |
| | 04/28/09 | 3602.11 | 40.04 | 40.02 | 0.02 | 0.02 | 40.02 | 3562.09 |
| | 05/11/09 | 3602.11 | 40.42 | 40.06 | 0.36 | 0.29 | 40.13 | 3561.98 |
| | 05/26/09 | 3602.11 | 42.00 | 39.27 | 2.73 | 2.18 | 39.82 | 3562.29 |
| | 06/01/09 | 3602.11 | 42.00 | 39.11 | 2.89 | 2.31 | 39.69 | 3562.42 |
| | 06/02/09 | 3602.11 | 41.95 | 39.10 | 2.85 | 2.28 | 39.67 | 3562.44 |
| | 06/15/09 | 3602.11 | 41.95 | 39.07 | 2.88 | 2.30 | 39.65 | 3562.46 |
| | 06/15/09 | 3602.11 | 40.05 | 39.76 | 0.29 | 0.23 | 39.82 | 3562.29 |
| | 06/29/09 | 3602.11 | 41.90 | 39.10 | 2.80 | 2.24 | 39.66 | 3562.45 |
| | 07/06/09 | 3602.11 | 40.04 | 40.00 | 0.04 | 0.03 | 40.01 | 3562.10 |
| | 07/14/09 | 3602.11 | 41.90 | 39.15 | 2.75 | 2.20 | 39.70 | 3562.41 |
| | 07/20/09 | 3602.11 | 41.92 | 39.20 | 2.72 | 2.18 | 39.74 | 3562.37 |
| | 07/27/09 | 3602.11 | 42.00 | 39.04 | 2.96 | 2.37 | 39.63 | 3562.48 |
| | 08/03/09 | 3602.11 | 41.91 | 39.18 | 2.73 | 2.18 | 39.73 | 3562.38 |
| | 08/04/09 | 3602.11 | 41.92 | 39.19 | 2.73 | 2.18 | 39.74 | 3562.37 |
| | 08/12/09 | 3602.11 | 40.90 | 39.12 | 1.78 | 1.42 | 39.48 | 3562.63 |
| | 08/24/09 | 3602.11 | 40.40 | 39.88 | 0.52 | 0.42 | 39.98 | 3562.13 |
| | 08/31/09 | 3602.11 | 40.51 | 39.84 | 0.67 | 0.54 | 39.97 | 3562.14 |
| | 09/08/09 | 3602.11 | 40.47 | 39.95 | 0.52 | 0.42 | 40.05 | 3562.06 |
| | 09/16/09 | 3602.11 | 40.22 | 40.11 | 0.11 | 0.09 | 40.13 | 3561.98 |
| | 09/28/09 | 3602.11 | 39.96 | 39.92 | 0.04 | 0.03 | 39.93 | 3562.18 |
| | 10/12/09 | 3602.11 | 40.55 | 40.00 | 0.55 | 0.44 | 40.11 | 3562.00 |
| | 10/26/09 | 3602.11 | 41.77 | 39.13 | 2.64 | 2.11 | 39.66 | 3562.45 |
| | 11/03/09 | 3602.11 | 40.38 | 40.21 | 0.17 | 0.14 | 40.24 | 3561.87 |
| | 11/10/09 | 3602.11 | 41.75 | 39.17 | 2.58 | 2.06 | 39.69 | 3562.42 |
| | 11/23/09 | 3602.11 | 40.58 | 40.10 | 0.48 | 0.38 | 40.20 | 3561.91 |
| | 11/30/09 | 3602.11 | 41.75 | 39.24 | 2.51 | 2.01 | 39.74 | 3562.37 |
| | 12/07/09 | 3602.11 | 41.76 | 39.27 | 2.49 | 1.99 | 39.77 | 3562.34 |
| | 12/22/09 | 3602.11 | 41.75 | 39.30 | 2.45 | 1.96 | 39.79 | 3562.32 |
| | 01/04/10 | 3602.11 | 41.80 | 39.35 | 2.45 | 1.96 | 39.84 | 3562.27 |
| | 01/11/10 | 3602.11 | 41.68 | 39.36 | 2.32 | 1.86 | 39.82 | 3562.29 |
| | 01/18/10 | 3602.11 | 42.00 | 39.39 | 2.61 | 2.09 | 39.91 | 3562.20 |
| | 01/25/10 | 3602.11 | 41.80 | 39.40 | 2.40 | 1.92 | 39.88 | 3562.23 |
| | 02/01/10 | 3602.11 | 41.75 | 39.44 | 2.31 | 1.85 | 39.90 | 3562.21 |
| | 02/08/10 | 3602.11 | 41.80 | 39.46 | 2.34 | 1.87 | 39.93 | 3562.18 |
| | 02/22/10 | 3602.11 | 41.75 | 39.52 | 2.23 | 1.78 | 39.97 | 3562.14 |
| | 03/01/10 | 3602.11 | 41.75 | 39.53 | 2.22 | 1.78 | 39.97 | 3562.14 |
| | 03/08/10 | 3602.11 | 41.75 | 39.53 | 2.22 | 1.78 | 39.97 | 3562.14 |
| | 03/22/10 | 3602.11 | 41.75 | 39.55 | 2.20 | 1.76 | 39.99 | 3562.12 |

**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) | 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 |
| | 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 |

**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. | 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 |
| | 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 |

**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. | 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 |
| | 03/24/09 | 3598.87 | 39.00 | 36.14 | 2.86 | 2.29 | 36.71 | 3562.16 |
| | 03/30/09 | 3598.87 | 36.71 | 36.70 | 0.01 | 0.01 | 36.70 | 3562.17 |
| | 04/06/09 | 3598.87 | 38.70 | 36.24 | 2.46 | 1.97 | 36.73 | 3562.14 |
| | 04/14/09 | 3598.87 | 36.93 | 36.65 | 0.28 | 0.22 | 36.71 | 3562.16 |
| | 04/20/09 | 3598.87 | 38.58 | 35.99 | 2.59 | 2.07 | 36.51 | 3562.36 |
| | 04/28/09 | 3598.87 | 36.95 | 36.68 | 0.27 | 0.22 | 36.73 | 3562.14 |
| | 05/11/09 | 3598.87 | 37.02 | 36.68 | 0.34 | 0.27 | 36.75 | 3562.12 |
| | 05/26/09 | 3598.87 | 37.05 | 36.80 | 0.25 | 0.20 | 36.85 | 3562.02 |
| | 06/01/09 | 3598.87 | 37.04 | 36.74 | 0.30 | 0.24 | 36.80 | 3562.07 |
| | 06/02/09 | 3598.87 | 36.91 | 36.90 | 0.01 | 0.01 | 36.90 | 3561.97 |
| | 06/09/09 | 3598.87 | 38.47 | 36.50 | 1.97 | 1.58 | 36.89 | 3561.98 |
| | 06/15/09 | 3598.87 | 36.95 | 36.95 | 0.00 | 0.00 | 36.95 | 3561.92 |
| | 06/29/09 | 3598.87 | 39.55 | 36.35 | 3.20 | 2.56 | 36.99 | 3561.88 |
| | 07/06/09 | 3598.87 | 38.05 | 36.71 | 1.34 | 1.07 | 36.98 | 3561.89 |
| | 07/14/09 | 3598.87 | 38.52 | 36.58 | 1.94 | 1.55 | 36.97 | 3561.90 |
| | 07/20/09 | 3598.87 | 39.71 | 36.42 | 3.29 | 2.63 | 37.08 | 3561.79 |
| | 07/27/09 | 3598.87 | 40.04 | 36.20 | 3.84 | 3.07 | 36.97 | 3561.90 |
| | 08/03/09 | 3598.87 | 40.39 | 36.34 | 4.05 | 3.24 | 37.15 | 3561.72 |
| | 08/04/09 | 3598.87 | 40.33 | 36.37 | 3.96 | 3.17 | 37.16 | 3561.71 |
| | 08/12/09 | 3598.87 | 37.70 | 36.88 | 0.82 | 0.66 | 37.04 | 3561.83 |
| | 08/24/09 | 3598.87 | 37.55 | 36.79 | 0.76 | 0.61 | 36.94 | 3561.93 |
| | 08/31/09 | 3598.87 | 37.66 | 36.80 | 0.86 | 0.69 | 36.97 | 3561.90 |
| | 09/08/09 | 3598.87 | 39.24 | 36.44 | 2.80 | 2.24 | 37.00 | 3561.87 |
| | 09/16/09 | 3598.87 | 37.76 | 36.85 | 0.91 | 0.73 | 37.03 | 3561.84 |
| | 09/28/09 | 3598.87 | 37.14 | 37.12 | 0.02 | 0.02 | 37.12 | 3561.75 |
| | 10/12/09 | 3598.87 | 38.34 | 36.73 | 1.61 | 1.29 | 37.05 | 3561.82 |
| | 10/26/09 | 3598.87 | 41.00 | 36.33 | 4.67 | 3.74 | 37.26 | 3561.61 |
| | 11/03/09 | 3598.87 | 38.82 | 37.81 | 1.01 | 0.81 | 38.01 | 3560.86 |
| | 11/10/09 | 3598.87 | 39.67 | 36.47 | 3.20 | 2.56 | 37.11 | 3561.76 |
| | 11/23/09 | 3598.87 | 37.76 | 37.45 | 0.31 | 0.25 | 37.51 | 3561.36 |
| | 11/30/09 | 3598.87 | 40.58 | 36.55 | 4.03 | 3.22 | 37.36 | 3561.51 |
| | 12/07/09 | 3598.87 | 38.70 | 36.73 | 1.97 | 1.58 | 37.12 | 3561.75 |
| | 12/22/09 | 3598.87 | 38.02 | 38.01 | 0.01 | 0.01 | 38.01 | 3560.86 |
| | 01/04/10 | 3598.87 | 40.38 | 36.55 | 3.83 | 3.06 | 37.32 | 3561.55 |
| | 01/11/10 | 3598.87 | 40.64 | 36.53 | 4.11 | 3.29 | 37.35 | 3561.52 |
| | 01/18/10 | 3598.87 | 38.03 | 38.02 | 0.01 | 0.01 | 38.02 | 3560.85 |
| | 01/25/10 | 3598.87 | 39.91 | 36.70 | 3.21 | 2.57 | 37.34 | 3561.53 |
| | 02/01/10 | 3598.87 | 40.68 | 36.63 | 4.05 | 3.24 | 37.44 | 3561.43 |
| | 02/08/10 | 3598.87 | 40.77 | 36.63 | 4.14 | 3.31 | 37.46 | 3561.41 |
| | 02/22/10 | 3598.87 | 38.17 | | 0.00 | 0.00 | 38.17 | 3560.70 |
| | 03/01/10 | 3598.87 | 40.03 | 36.82 | 3.21 | 2.57 | 37.46 | 3561.41 |
| | 03/08/10 | 3598.87 | 38.18 | | 0.00 | 0.00 | 38.18 | 3560.69 |
| | 03/22/10 | 3598.87 | 40.71 | 36.76 | 3.95 | 3.16 | 37.55 | 3561.32 |
| 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 |

**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 | 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 |
| | 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 |
| | 04/20/09 | 3601.67 | 40.46 | | 0.00 | 0.00 | 40.46 | 3561.21 |
| | 07/27/09 | 3601.67 | 40.80 | | 0.00 | 0.00 | 40.80 | 3560.87 |
| | 10/26/09 | 3601.67 | 40.93 | | 0.00 | 0.00 | 40.93 | 3560.74 |
| | 01/25/10 | 3601.67 | 41.19 | | 0.00 | 0.00 | 41.19 | 3560.48 |
| 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 | | | | | |

**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-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 | | | | | |
| 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 |

**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 cont. | 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 |
| | 04/20/09 | 3597.87 | 34.35 | | 0.00 | 0.00 | 34.35 | 3563.52 |
| | 07/27/09 | 3597.87 | 34.69 | 34.69 | 0.00 | 0.00 | 34.69 | 3563.18 |
| | 10/26/09 | 3597.87 | 34.89 | | 0.00 | 0.00 | 34.89 | 3562.98 |
| | 01/25/10 | 3597.87 | 35.10 | | 0.00 | 0.00 | 35.10 | 3562.77 |
| 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 |
| | 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 |
| | 04/20/09 | 3597.30 | 35.25 | 35.24 | 0.01 | 0.01 | 35.24 | 3562.06 |
| | 07/27/09 | 3597.30 | 35.57 | | 0.00 | 0.00 | 35.57 | 3561.73 |
| | 10/26/09 | 3597.30 | 35.76 | | 0.00 | 0.00 | 35.76 | 3561.54 |
| | 01/25/10 | 3597.30 | 36.00 | | 0.00 | 0.00 | 36.00 | 3561.30 |
| 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 |

**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-4 cont. | 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 |
| | 04/20/09 | 3596.13 | 34.67 | | 0.00 | 0.00 | 34.67 | 3561.46 |
| | 07/27/09 | 3596.13 | 35.00 | | 0.00 | 0.00 | 35.00 | 3561.13 |
| | 10/26/09 | 3596.13 | 35.15 | | 0.00 | 0.00 | 35.15 | 3560.98 |
| | 01/25/10 | 3596.13 | 35.37 | | 0.00 | 0.00 | 35.37 | 3560.76 |
| 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 |
| | 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 |

**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. | 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 |
| | 04/20/09 | 3599.89 | 39.20 | 39.19 | 0.01 | 0.01 | 39.19 | 3560.70 |
| | 07/27/09 | 3599.89 | 39.55 | | 0.00 | 0.00 | 39.55 | 3560.34 |
| | 10/26/09 | 3599.89 | 39.68 | | 0.00 | 0.00 | 39.68 | 3560.21 |
| | 01/25/10 | 3599.89 | 39.91 | | 0.00 | 0.00 | 39.91 | 3559.98 |
| 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 |
| | 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 | | |
| | 04/20/09 | 3599.71 | dry | | 0.00 | 0.00 | | |
| | 07/27/09 | 3599.71 | dry | | 0.00 | 0.00 | | |
| | 10/26/09 | 3599.71 | dry | | 0.00 | 0.00 | | |
| | 01/25/10 | 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 |

**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-7 cont. | 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 |
| | 04/20/09 | 3600.64 | 37.98 | 37.97 | 0.01 | 0.01 | 37.97 | 3562.67 |
| | 07/27/09 | 3600.64 | 38.35 | | 0.00 | 0.00 | 38.35 | 3562.29 |
| | 10/26/09 | 3600.64 | 38.37 | | 0.00 | 0.00 | 38.37 | 3562.27 |
| | 01/25/10 | 3600.64 | 38.66 | | 0.00 | 0.00 | 38.66 | 3561.98 |
| 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 |
| | 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 |

**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. | 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 |
| | 04/20/09 | 3598.68 | 34.59 | | 0.00 | 0.00 | 34.59 | 3564.09 |
| | 07/27/09 | 3598.68 | 34.98 | | 0.00 | 0.00 | 34.98 | 3563.70 |
| | 10/26/09 | 3598.68 | 35.03 | | 0.00 | 0.00 | 35.03 | 3563.65 |
| | 01/25/10 | 3598.68 | 35.30 | | 0.00 | 0.00 | 35.30 | 3563.38 |
| 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 intervals | | | | | | |
| | 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 |
| EW-1 | 06/07/02 | 3598.57 | 34.33 | 30.73 | 3.60 | 2.88 | 31.45 | 3567.12 |
| | 08/26/02 | developed 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 | | | | | | |

**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-2 cont. | 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 | 04/21/09 | 4,600 | <1.0 | 120 | 6.5 | 4,727 | 11 | 0.45 |
| | 07/29/09 | 2,100 | <1.0 | 2 | <1.0 | 2,102 | 5.8 | 1.7 |
| | 10/27/09 | 560 | <1.0 | 4.1 | 1.4 | 565.5 | 1.6 | 0.47 |
| | 01/26/10 | 250 | <1.0 | 3.8 | 7.7 | 261.5 | 0.95 | 0.43 |
| IW-2 | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.11 | 0.85 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 3.9 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 1.5 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 1.2 |
| IW-3 | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 0.39 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.11 | 0.43 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 0.42 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 0.22 |
| IW-4 | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.16 | 5.2 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.36 | 12 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.17 | 8.1 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.17 | 5.2 |
| IW-5 | 04/21/09 | <1.0 | <1.0 | <1.0 | 5.6 | 5.6 | 0.36 | 18 |
| | 07/28/09 | 1.5 | <1.0 | <1.0 | 1.4 | 2.9 | 0.34 | 18 |
| | 10/27/09 | 1.5 | <1.0 | <1.0 | 1 | 2.5 | 0.36 | 5.5 |
| | 01/26/10 | 3.5 | 1.6 | <1.0 | 1.1 | 6.2 | 0.47 | 3.5 |
| IW-7 | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.12 | 6.5 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.13 | 6.2 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.17 | 20 |
| | 10/27/09 D | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.14 | 20 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.24 | 20 |
| | 1/26/10 D | <1.0 | <1.0 | <1.0 | <1.0 | BDL | 0.27 | 43 |
| SVE-1 | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | <0.05 |
| | 4/21/09 D | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 0.099 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | <0.05 |
| | 7/28/09 D | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | 0.24 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | <0.05 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | BDL | <0.10 | <0.05 |

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
BDL = below detection limit
D = duplicate sample

**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 |
| 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 |

**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 cont. | 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 |
| | 4/25/06 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 |
| | 7/25/06 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 |
| | 4/22/08 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 | 390 | 25 | 6,015 | 15 | 0.96 |
| | 1/20/09 D | 5,800 | <1.0 | 89 | 4.8 | 5,894 | 17 | 0.65 |
| | 04/21/09 | 4,600 | <1.0 | 120 | 6.5 | 4,727 | 11 | 0.45 |
| | 07/29/09 | 2,100 | <1.0 | 2 | <1.0 | 2,102 | 5.8 | 1.7 |
| | 10/27/09 | 560 | <1.0 | 4.1 | 1.4 | 565.5 | 1.6 | 0.47 |
| | 01/26/10 | 250 | <1.0 | 3.8 | 7.7 | 261.5 | 0.95 | 0.43 |
| 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 |
| 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 | 1.8 | 25 |
| | 01/24/06 | 20 | 63 | 88 | 140 | 311 | 2.0 | 71 |

**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 cont. | 04/25/06 | 2.8 | 5 | 13 | 15 | 35.4 | 0.83 | 15 |
| | 07/25/06 | 4.0 | <1.0 | 54 | 75 | 133 | 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 | <0.10 | 6.8 |
| | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.11 | 0.85 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 3.9 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 1.5 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 1.2 |
| 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 | 1.0 |
| | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 0.39 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.11 | 0.43 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 0.42 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 0.22 |
| 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 |
| | 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 |

**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. | 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 | | 9.4 |
| | 01/20/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.23 | 18 |
| | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.16 | 5.2 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.36 | 12 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.17 | 8.1 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.17 | 5.2 |
| IW-5 | 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 |
| | 04/21/09 | <1.0 | <1.0 | <1.0 | 5.6 | 5.6 | 0.36 | 18 |
| | 07/28/09 | 1.5 | <1.0 | <1.0 | 1.4 | 2.9 | 0.34 | 18 |
| | 10/27/09 | 1.5 | <1.0 | <1.0 | 1 | 2.5 | 0.36 | 5.5 |
| | 01/26/10 | 3.5 | 1.6 | <1.0 | 1.1 | 6.2 | 0.47 | 3.5 |
| 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 |
| | 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 |

**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. | 01/24/07 | 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 |
| | 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 |
| | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.12 | 6.5 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.13 | 6.2 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.17 | 20 |
| | 10/27/09 D | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.14 | 20 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.24 | 20 |
| | 1/26/10 D | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | 0.27 | 43 |
| SVE-1 | 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 |
| | 7/22/08 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 |
| | 10/21/08 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 |
| | 04/21/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | <0.05 |
| | 4/21/09 D | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 0.099 |
| | 07/28/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | <0.05 |
| | 7/28/09 D | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | 0.24 |
| | 10/27/09 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | <0.05 |
| | 01/26/10 | <1.0 | <1.0 | <1.0 | <1.0 | 0.0 | <0.10 | <0.05 |

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
Blank fields indicate no data

**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 | | | |
| | 05/20/02 | 137 | 590 | 3.09 | 0.098 |
| MW-3 | 07/16/99 | 170 | | | |
| | 10/20/99 | 120 | | | |
| | 01/13/00 | 160 | | | |
| | 04/06/00 | 170 | | | |
| MW-4 | 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 | | | |
| | 03/06/01 | 130 | | | |
| MW-10 | 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 | | | |
| | 12/12/01 | 169 | | | |
| | 05/20/02 | 164 | 594 | 1.87 | 0.303 |
| MW-11 | 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 | | | |
| | 12/12/01 | 100 | | | |
| | 05/20/02 | 96 | 1,280 | 3.43 | 0.051 |
| MW-12 | 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 | | | |
| | 12/12/01 | 109 | | | |
| | 05/20/02 | 100 | 845 | 11.7 | 0.106 |
| MW-13 | 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 | | | |
| | 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 | |

**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. | 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 | | | |
| | 1/20/09 D | 79.8 | | | |
| | 10/27/09 | 180 | | | |
| | 01/26/10 | 163 | | | |
| 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 | | | |
| | 07/21/04 | 121 | | | |
| | 10/26/04 | 146 | | | |
| | 01/25/05 | 158 | | | |
| | 04/19/05 | 146 | | | |
| | 07/19/05 | 125 | | | |
| | 10/18/05 | 107 | | | |

**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. | 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 | | | |
| | 04/21/09 | 66.6 | | 0.183 | 0.00994 |
| | 07/28/09 | 68.3 | | | |
| | 10/27/09 | 80.5 | | | |
| | 01/26/10 | 71.7 | | | |
| 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 | | | |
| | 04/21/09 | 80.8 | | 0.16 | 0.0210 |
| | 07/28/09 | 78.1 | | | |
| | 10/27/09 | 98.6 | | | |
| | 01/26/10 | 79 | | | |
| 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 | | | |
| | 01/24/07 | 53.7 | | | |

**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. | 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 | | | |
| | 01/20/09 | 66.3 | | | |
| | 04/21/09 | 67.1 | | 0.527 | 0.0661 |
| | 07/28/09 | 72.2 | | | |
| | 10/27/09 | 93.4 | | | |
| | 01/26/10 | 72.7 | | | |
| IW-5 | 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 | | | |
| | 04/21/09 | 134 | | 2.65 | 0.110 |
| | 07/28/09 | 97.9 | | | |
| | 10/27/09 | 62.2 | | | |
| | 01/26/10 | 75.4 | | | |
| 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 | | | |
| | 10/24/06 | 160 | | | |
| IW-7 | 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 | | | |

**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. | 01/25/05 | 155 | | | |
| | 01/25/05 D | 157 | | | |
| | 04/19/05 | 131 | | | |
| | 07/09/15 | 125 | | | |
| | 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 | | 0.772 | 0.0407 |
| | 07/22/08 | 72.7 | | | |
| | 10/21/08 | 69.5 | | | |
| | 01/20/09 | 83.2 | | | |
| | 04/21/09 | 71.4 | | 0.746 | 0.0347 |
| | 07/28/09 | 74.7 | | | |
| | 10/27/09 | 88.8 | | | |
| | 10/27/09 D | 84.8 | | | |
| | 01/26/10 | 79.4 | | | |
| | 1/26/10 D | 71 | | | |
| 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 | | | |
| | 04/21/09 | 114 | | 0.0734 | 0.00928 |
| | 04/21/09 D | 118 | | 0.756 | 0.0109 |
| | 07/28/09 | 113 | | | |
| | 7/28/09 D | 114 | | | |
| | 10/27/09 | 133 | | | |
| | 01/26/10 | 126 | | | |
| | | | | | |
| | | | | | |

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 | SVE-1 | SVE-1 D | WQCC Standards |
|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 578 | 756 | 555 | 842 | 800 | 796 | 839 | 1,000 |
| Chloride | 66.6 | 80.8 | 67.1 | 134 | 71.4 | 114 | 118 | 250 |
| Fluoride | 1.05 | 0.804 | 1.19 | 0.618 | 1.30 | 1.18 | 1.15 | 1.6 |
| Aluminum | 0.0273 | 0.0203 | 0.0714 | 0.0156 | 0.0984 | 0.0177 | 1.33 | 5.0 |
| Arsenic | 0.00956 | 0.0223 | 0.0186 | 0.0155 | 0.0332 | 0.0105 | 0.00968 | 0.1 |
| Barium | 0.110 | 0.182 | 0.327 | 0.389 | 0.152 | 0.114 | 0.136 | 1.0 |
| Boron | 0.194 | 0.205 | 0.153 | 0.283 | 0.312 | 0.272 | 0.265 | 0.75 |
| Cadmium | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.01 |
| Chromium | <0.005 | <0.005 | 0.00710 | <0.005 | 0.00744 | <0.005 | <0.005 | 0.05 |
| Cobalt | <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 | 1.0 |
| Iron | 0.183 | 0.160 | 0.527 | **2.65** | 0.746 | 0.0734 | 0.756 | 1.0 |
| Lead | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.05 |
| Manganese | 0.00994 | 0.0210 | 0.0661 | 0.11 | 0.0347 | 0.00928 | 0.0109 | 0.2 |
| Mercury | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.002 |
| Molybdenum | 0.015 | 0.0128 | <0.01 | <0.01 | 0.0261 | <0.01 | <0.01 | 1.0 |
| Nickel | 0.0106 | 0.0205 | 0.00847 | 0.00593 | 0.0158 | <0.005 | <0.005 | 0.2 |
| Selenium | <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 | 0.05 |
| Zinc | 0.0152 | 0.0105 | 0.0128 | <0.01 | 0.0131 | <0.01 | <0.01 | 10 |
| **PAH Analytes (µg/L)** | | | | | | | | |
| 1-Methylnaphthalene | <1.0 | 1.8 | <5.0 | 19 | <5.0 | <1.0 | <1.0 | 30 |
| 2-Methylnaphthalene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | 30 |
| Acenaphthene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Acenaphthylene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Anthracene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Benzo(a)anthracene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Benzo(a)pyrene | <0.70 | <0.70 | <3.5 | <7.0 | **4.5** | <0.70 | <0.70 | 0.7 |
| Benzo(b)fluoranthene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Benzo(g,h,i)perylene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Benzo(k)fluoranthene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Chrysene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Dibenz(a,h)anthracene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Dibenzofuran | <1.0 | <1.0 | <5.0 | 19 | <5.0 | <1.0 | <1.0 | |
| Fluoranthene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Fluorene | <1.0 | <1.0 | <5.0 | 11 | <5.0 | <1.0 | <1.0 | |
| Indeo(1,2,3-cd)pyrene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |
| Naphthalene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | 30 |
| Phenanthrene | <1.0 | <1.0 | <5.0 | 23 | <5.0 | <1.0 | <1.0 | |
| Pyrene | <1.0 | <1.0 | <5.0 | <10 | <5.0 | <1.0 | <1.0 | |

Notes:

Samples collected on 04/21/09

mg/L = Milligrams per liter

µg/L = Micrograms per liter

D = Duplicate sample

WQCC = New Mexico Water Quality Control Commission

PAH = Polynuclear Aromatic Hydrocarbons (SW846 - 8270C)

Blank fields indicate no data

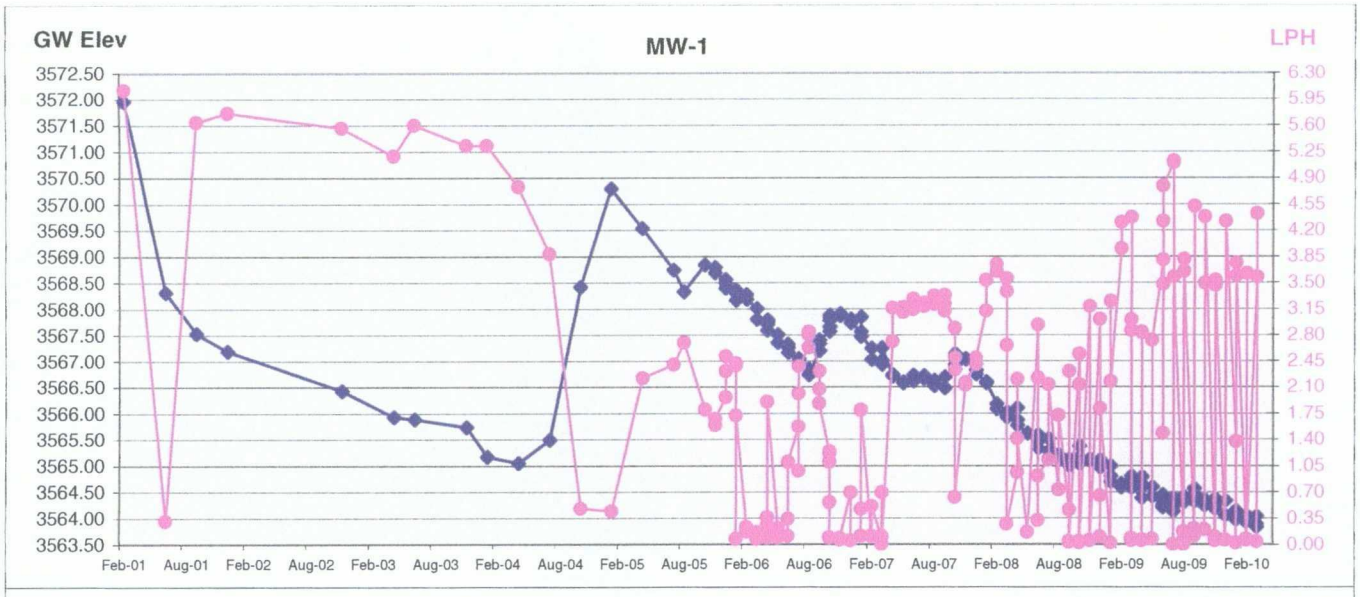
**Exceeds standards per 20.6.2.3103 NMAC**

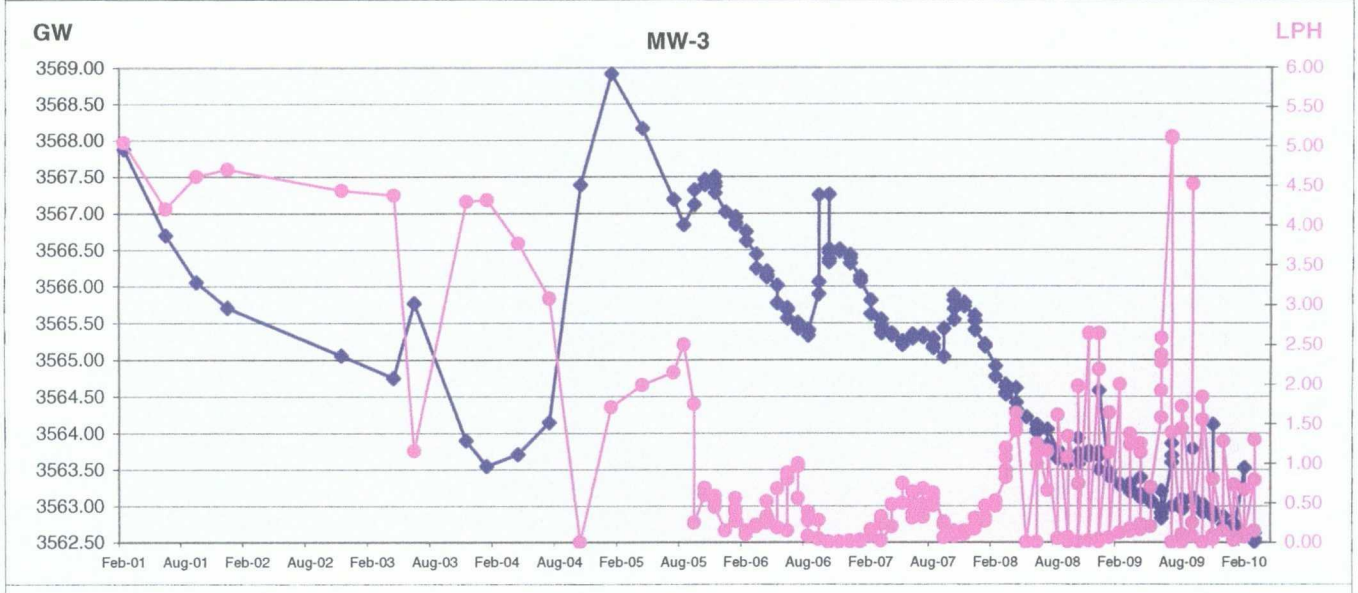
# APPENDIX A

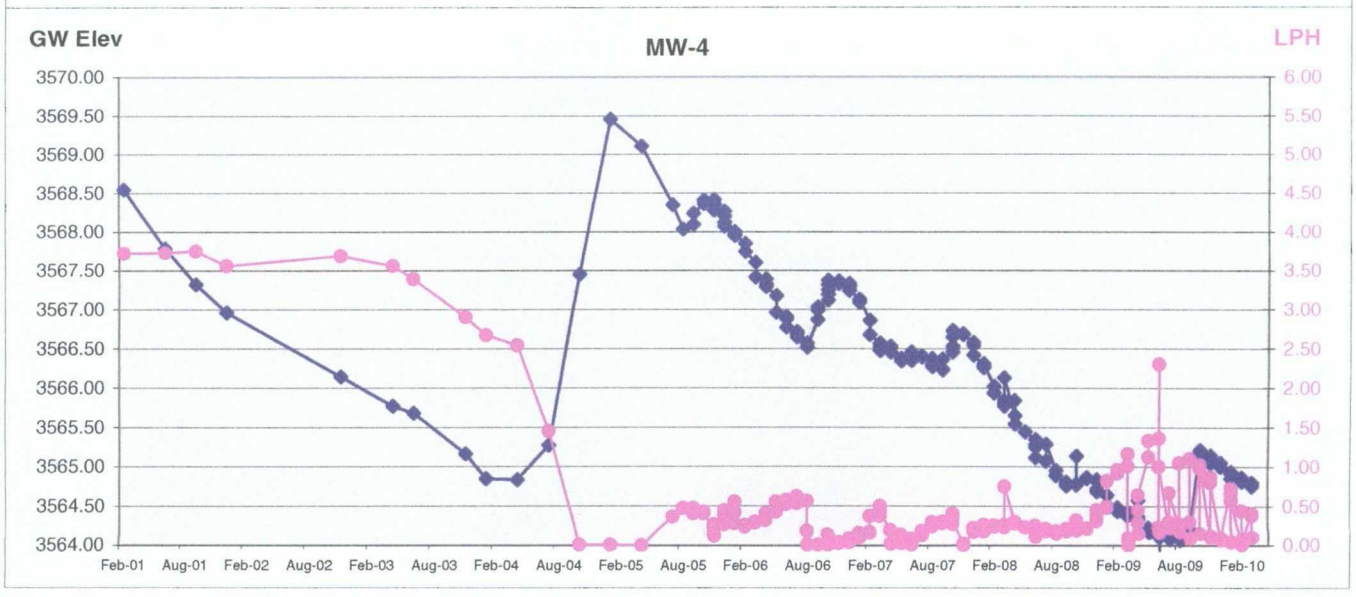
## Hydrographs and Groundwater Analytical Data Graphs

## Hydrograph Charts

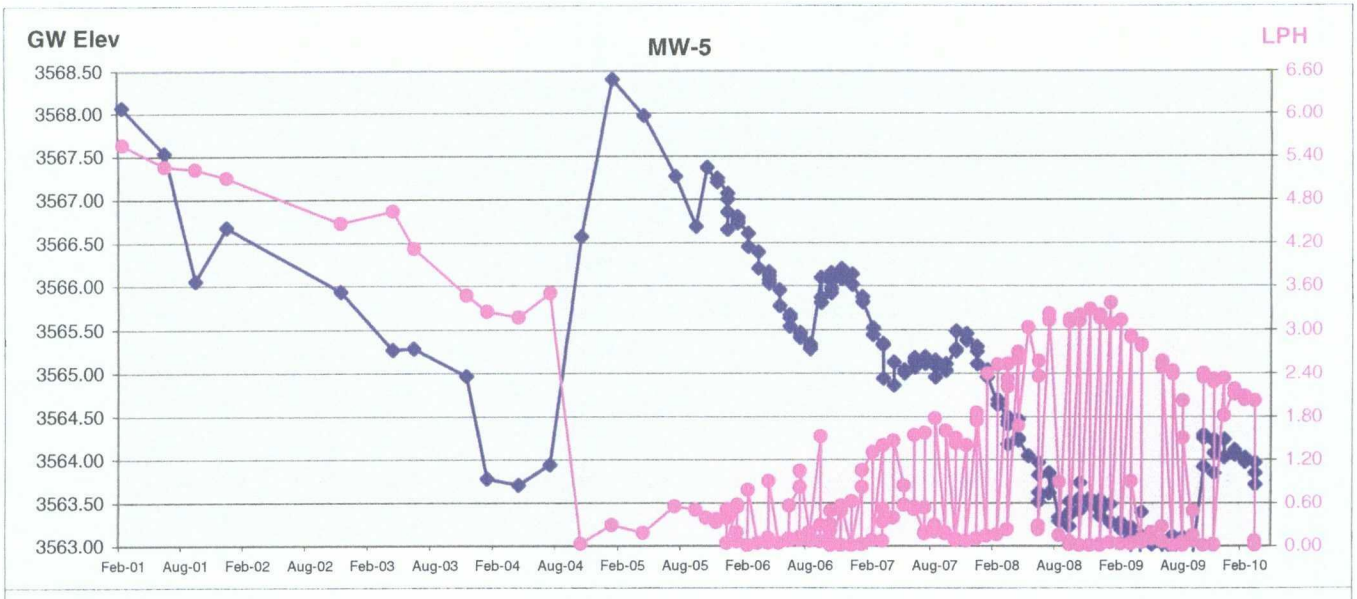
ConocoPhillips - Line NM1-1

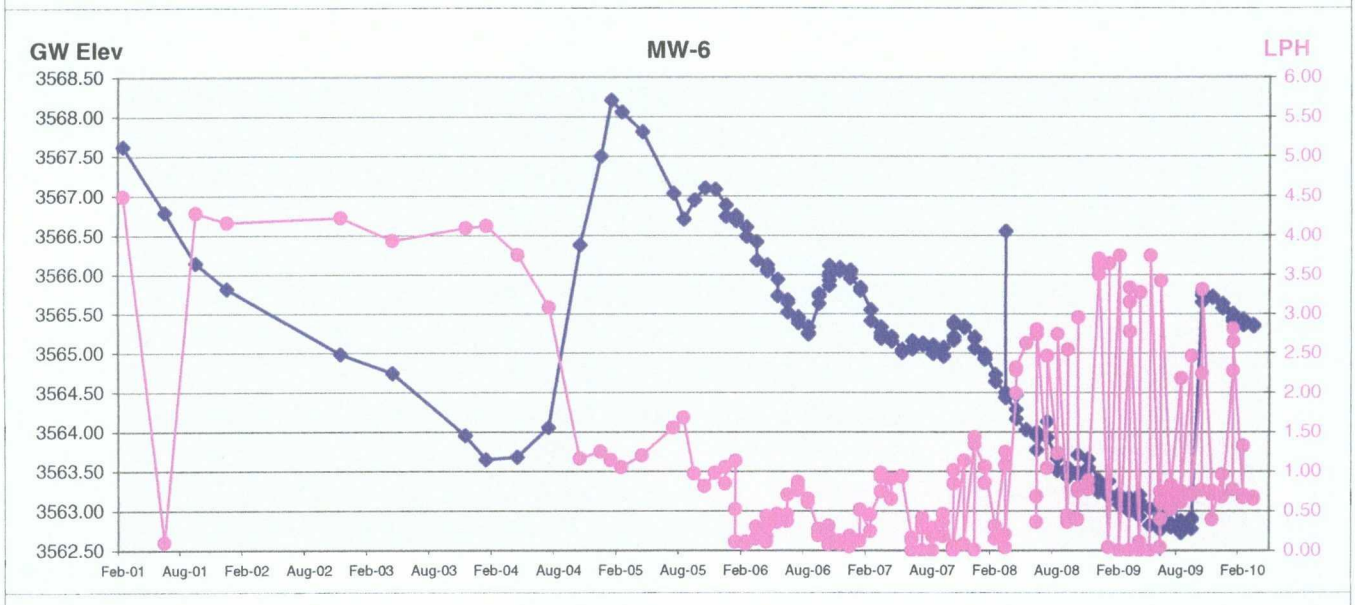


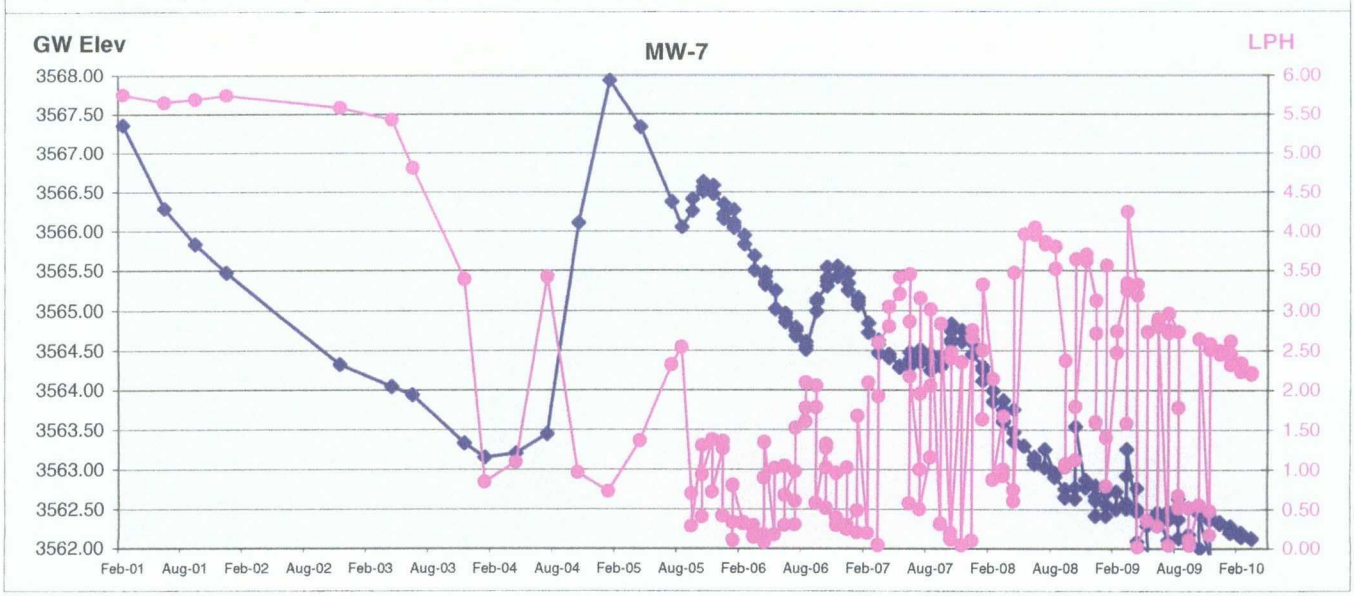



## Hydrograph Charts
ConocoPhillips - Line NM1-1

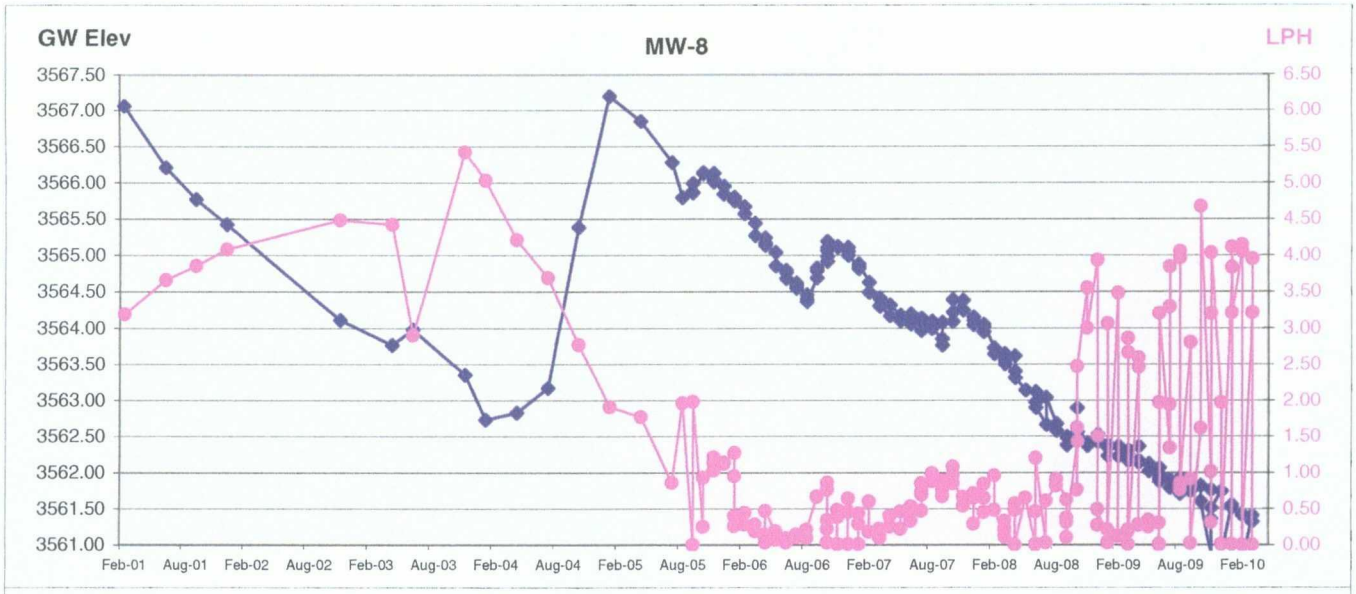


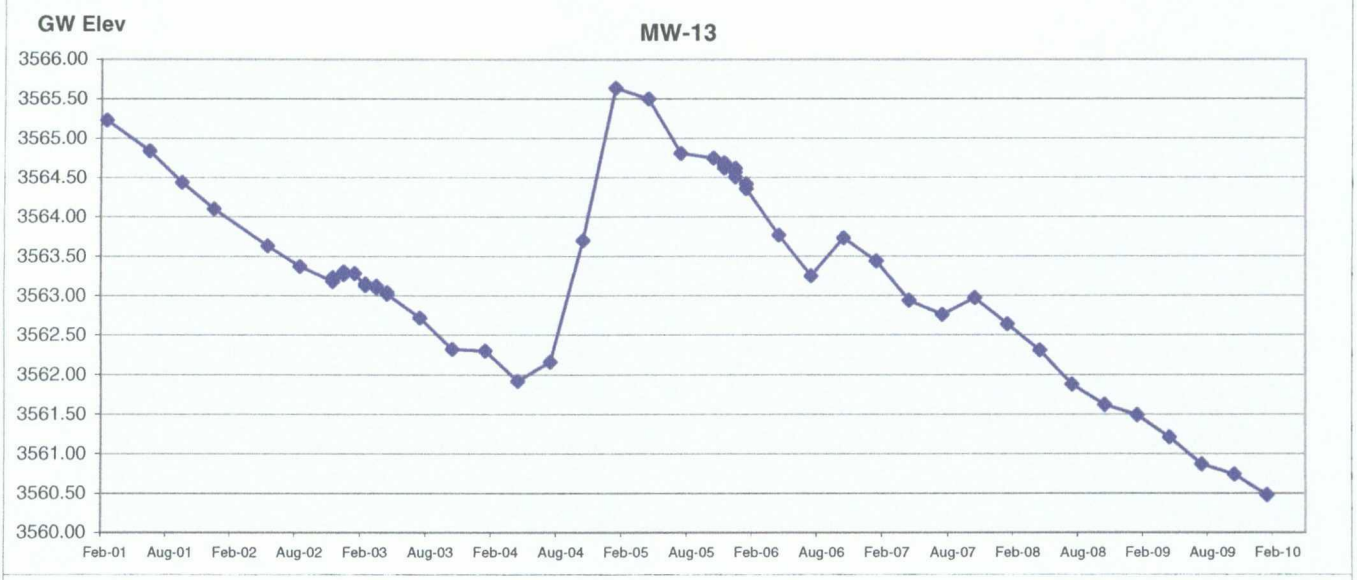



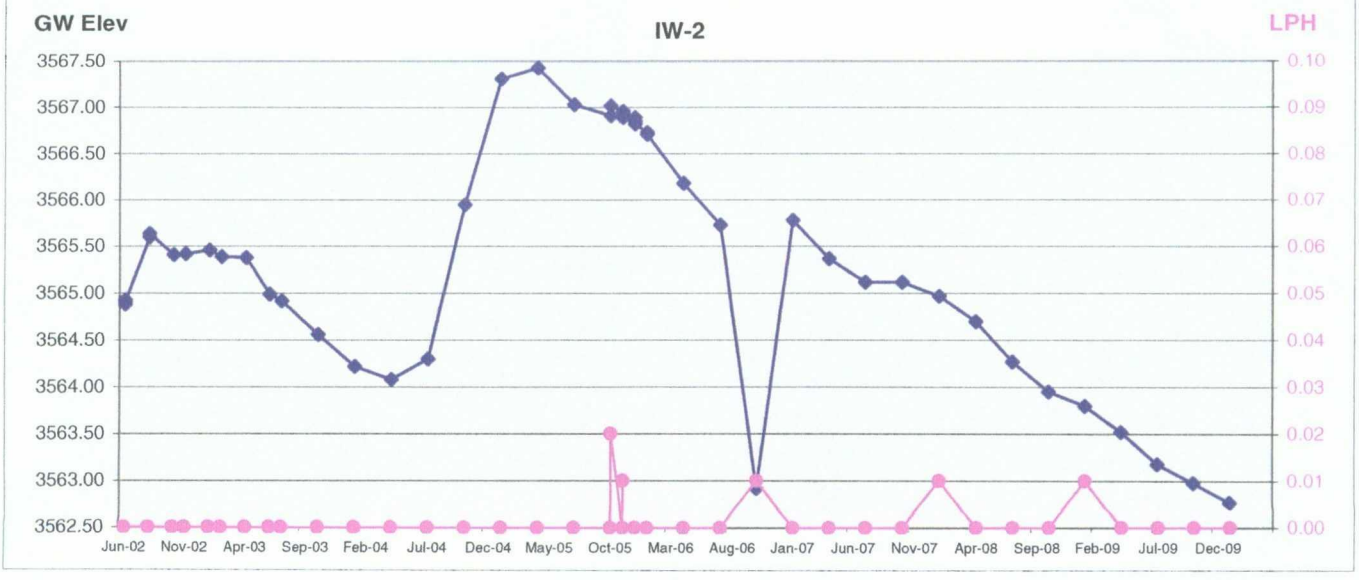



## Hydrograph Charts

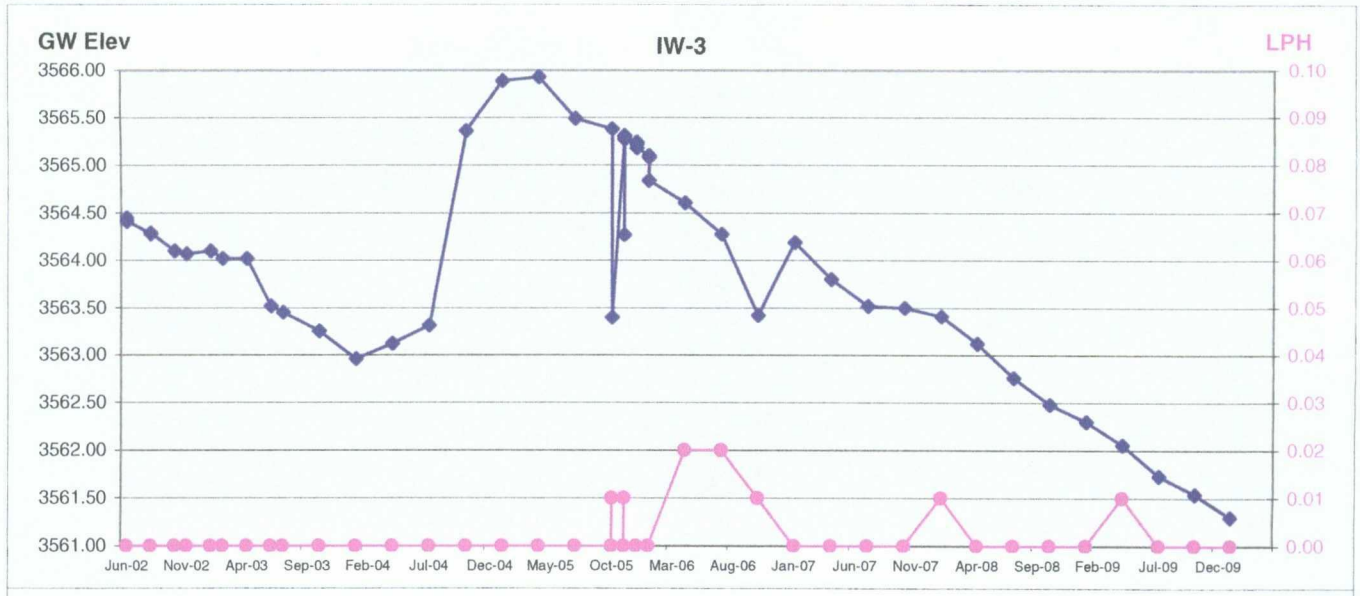
ConocoPhillips - Line NM1-1

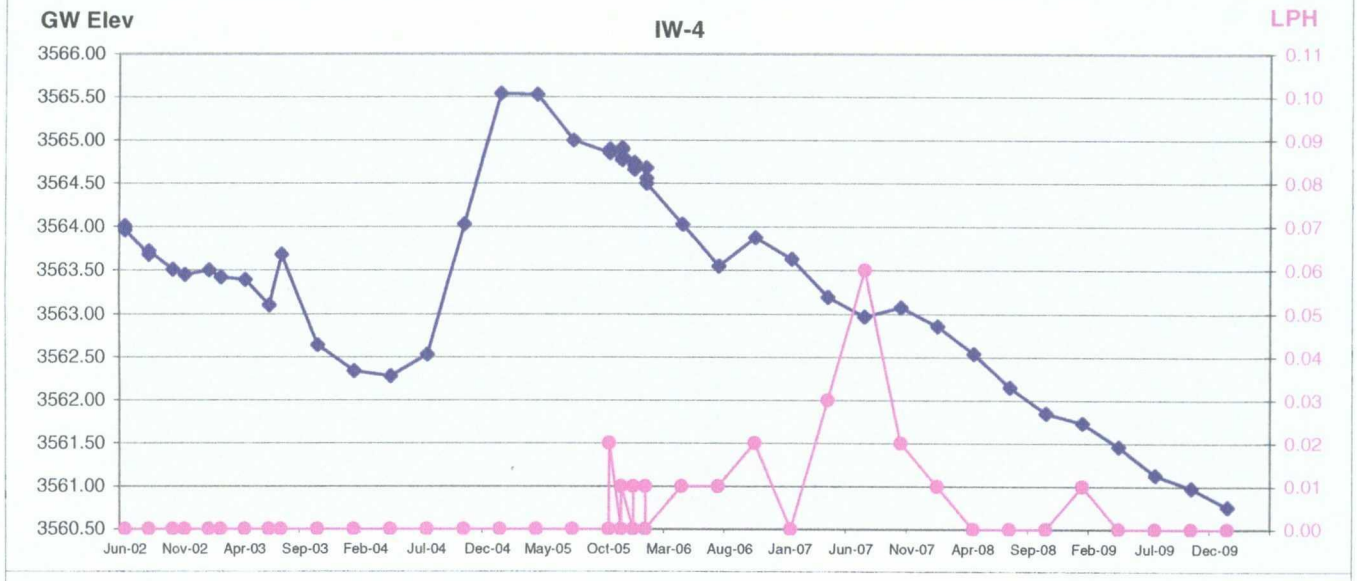


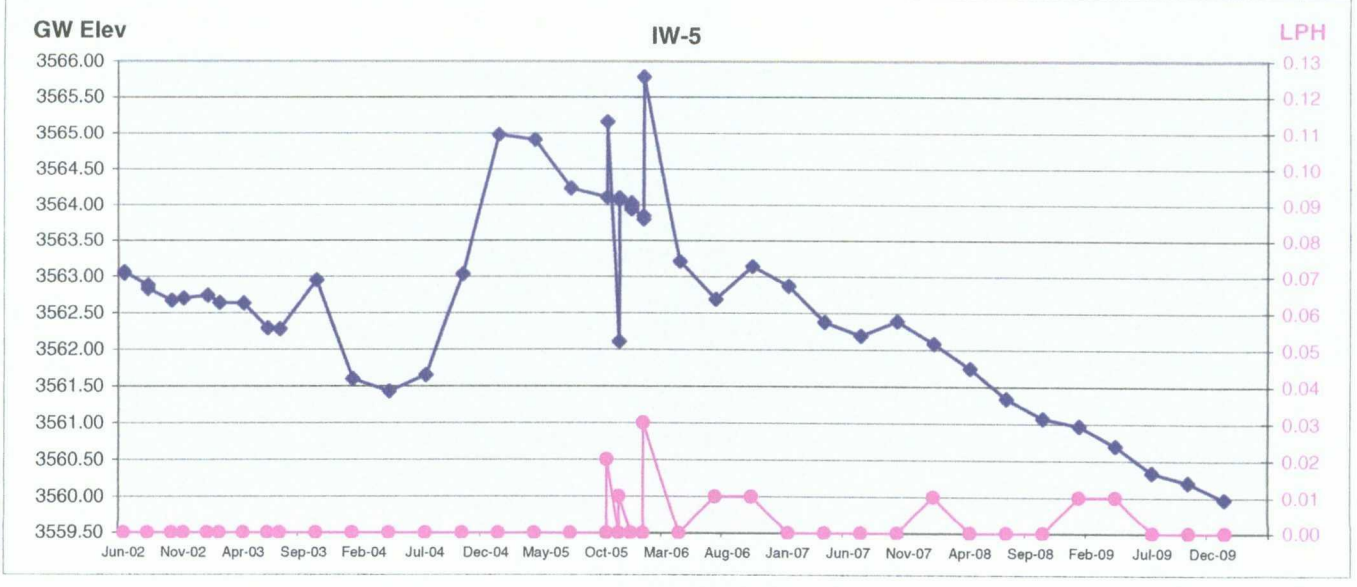



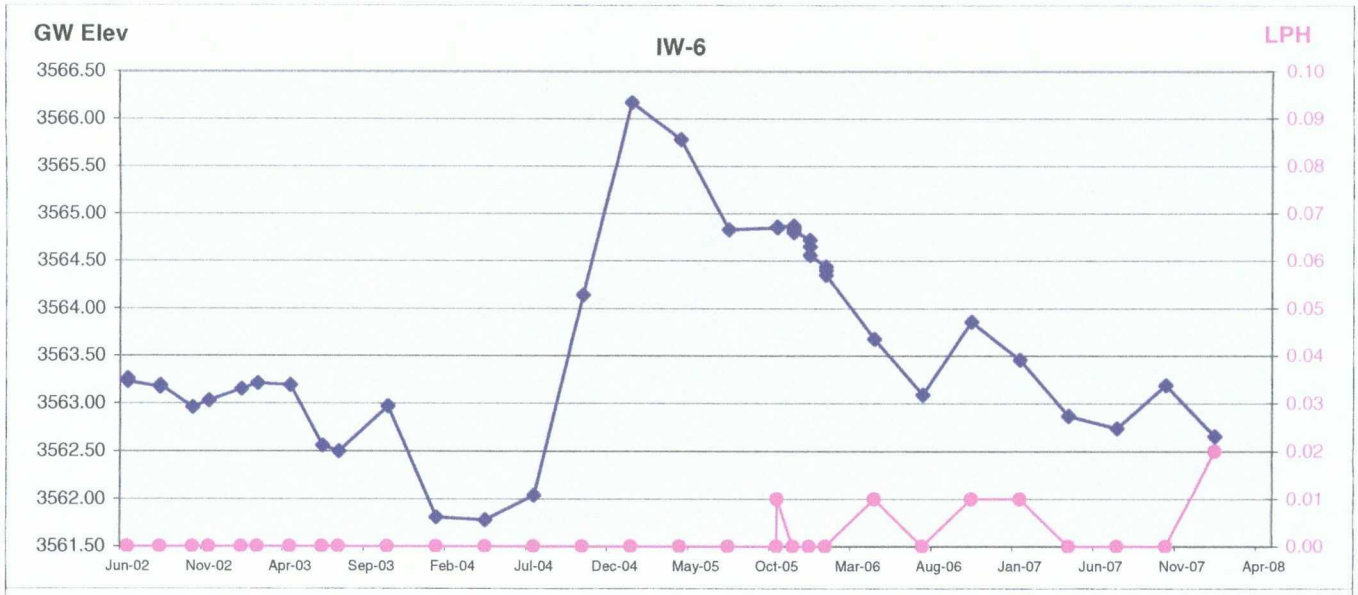
## Hydrograph Charts
ConocoPhillips - Line NM1-1

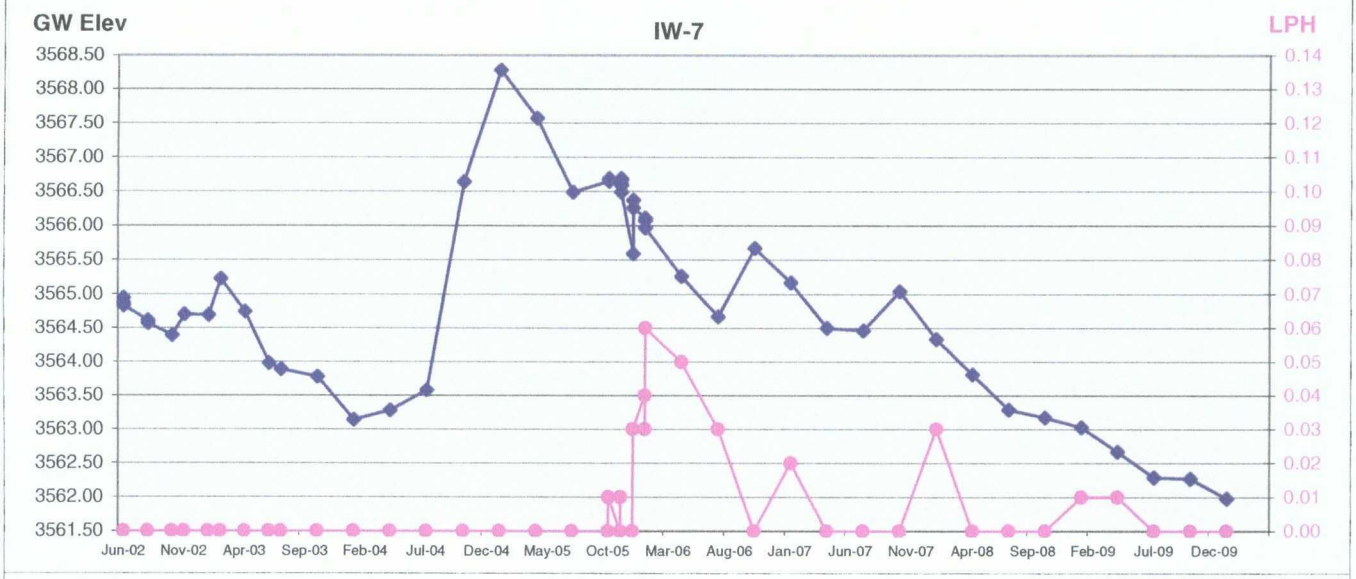


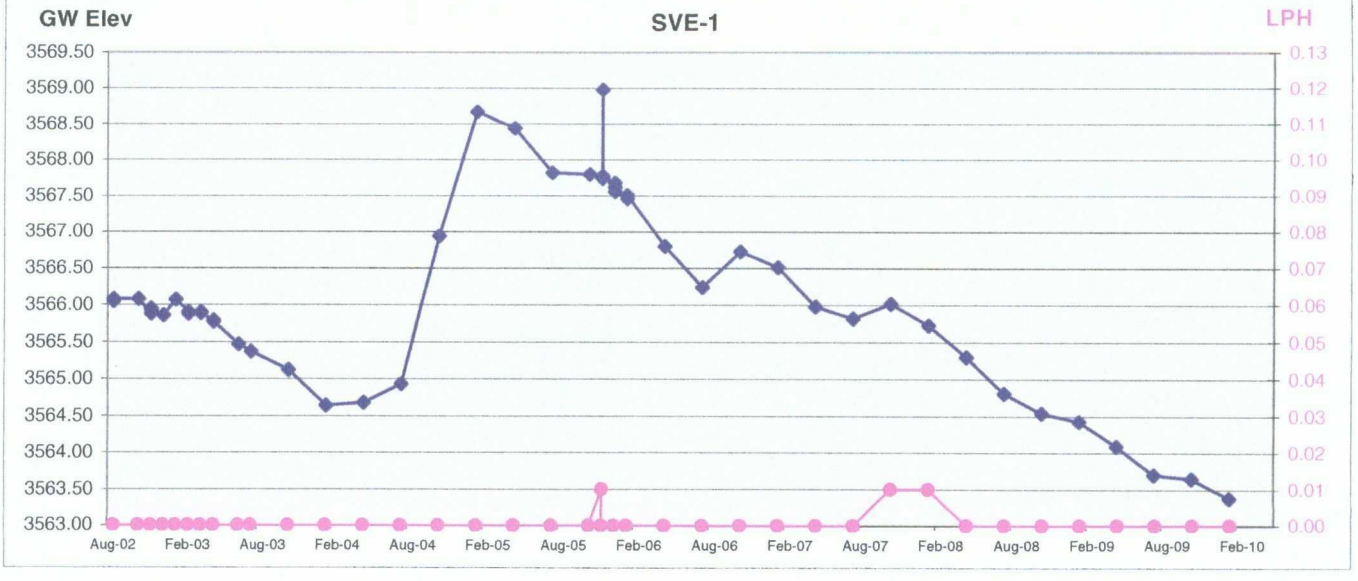



## Hydrograph Charts
ConocoPhillips - Line NM1-1



## Hydrograph Charts

ConocoPhillips - Line NM1-1



Notes:

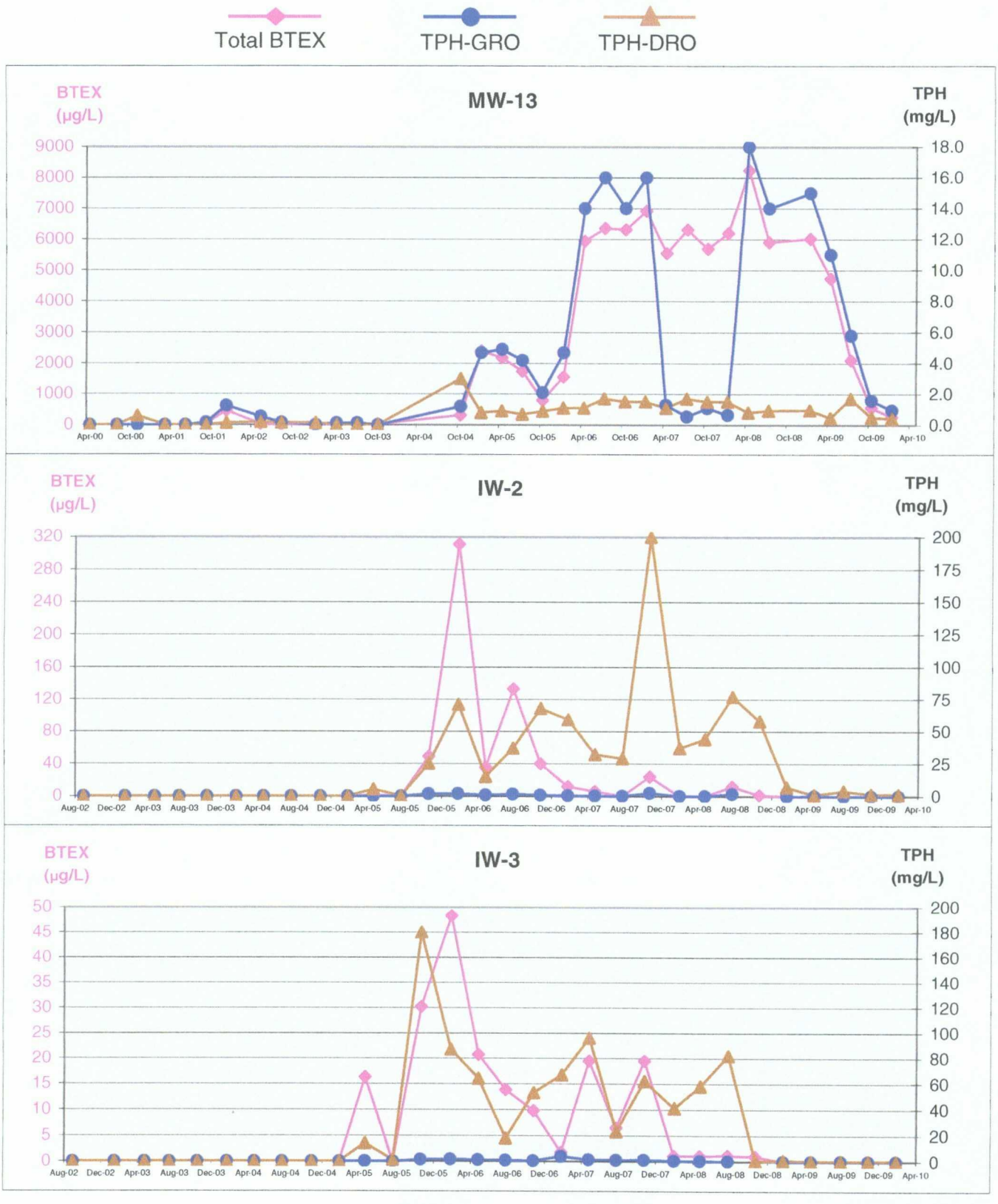
GW Elev = Groundwater elevation in feet above mean sea level

LPH = Liquid phase hydrocarbons thickness in feet

## Groundwater Analytical Data Graphs

ConocoPhillips - Line NM1-1

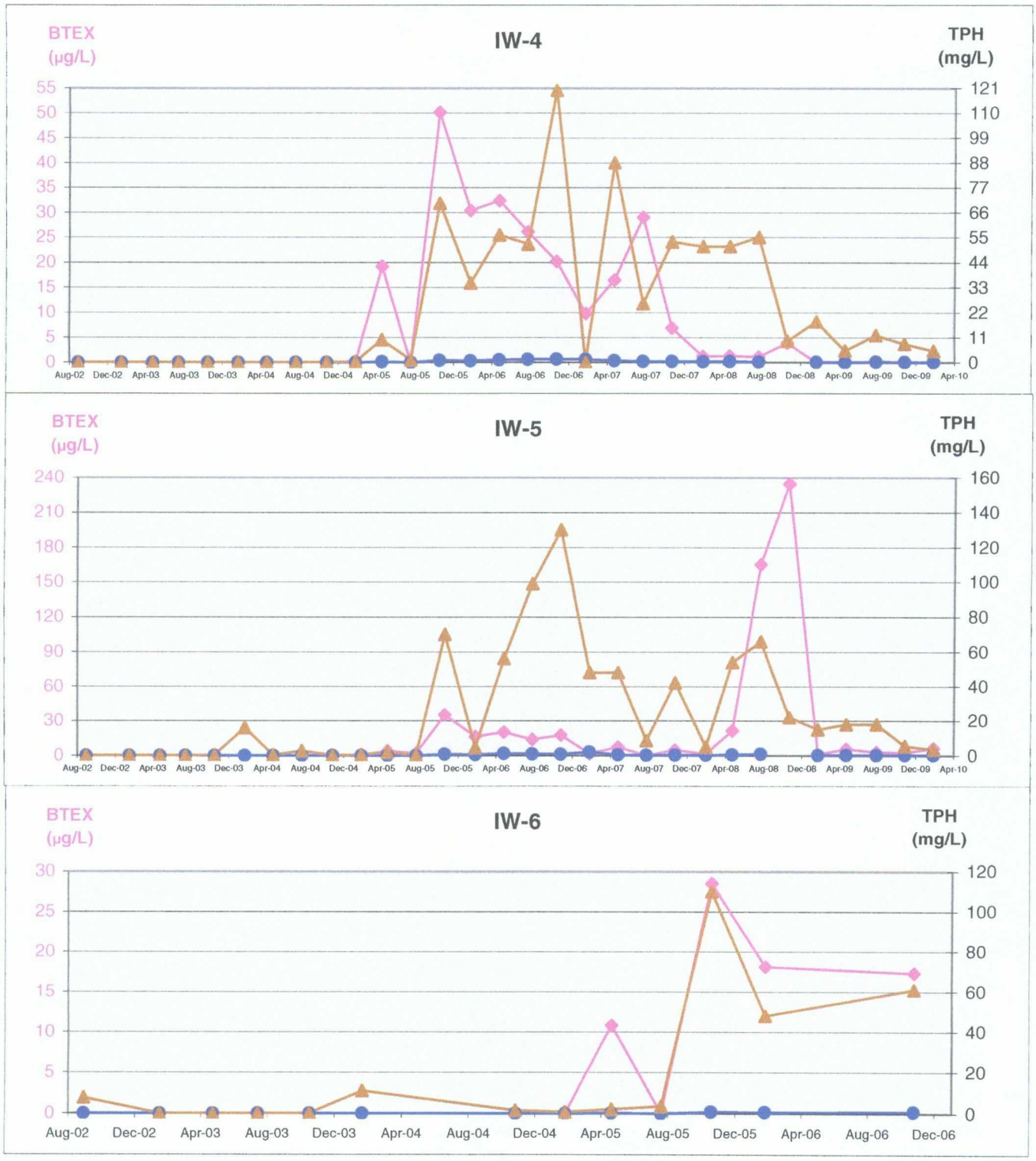
Hobbs, New Mexico



## Groundwater Analytical Data Graphs

ConocoPhillips - Line NM1-1

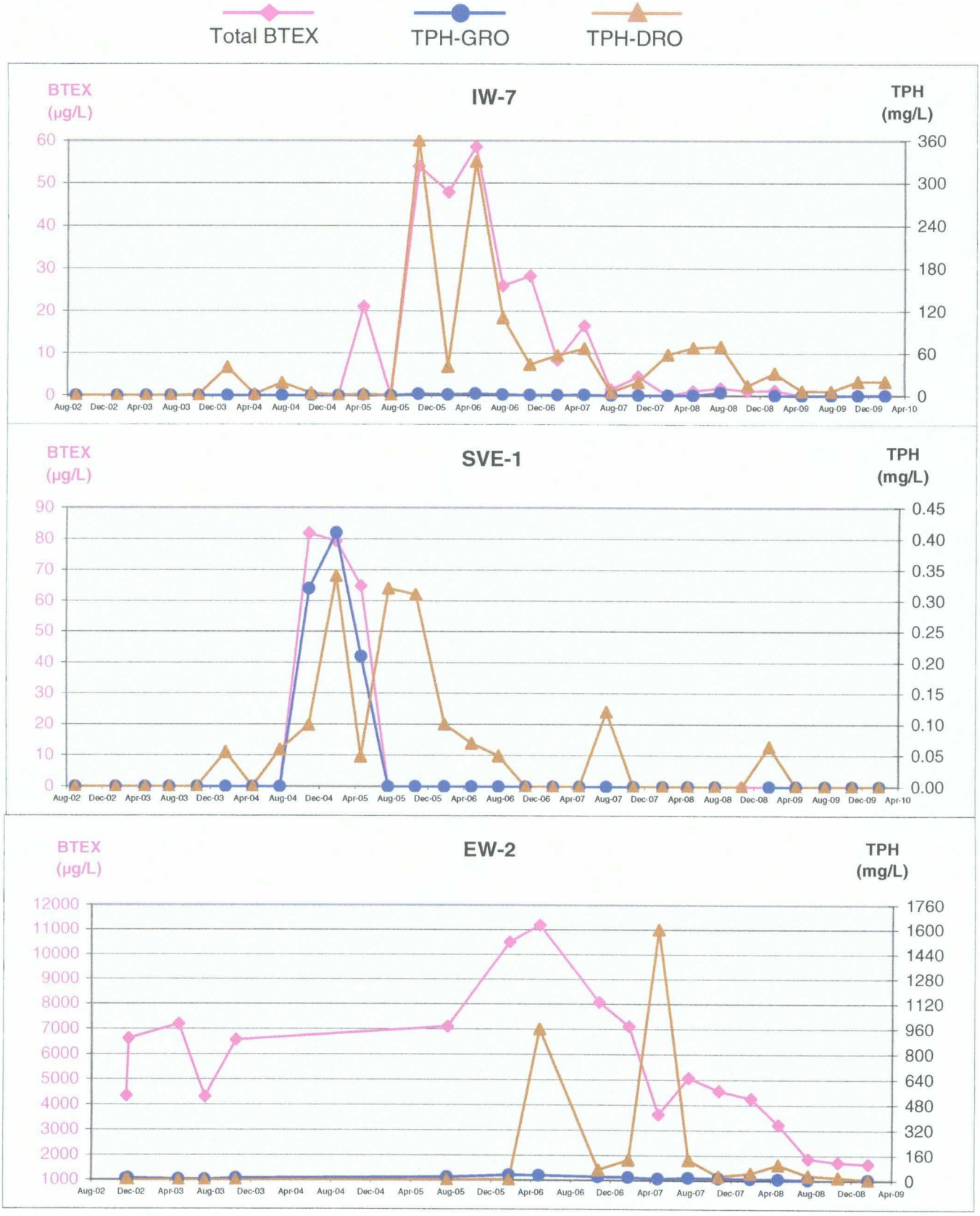
Hobbs, New Mexico



## Groundwater Analytical Data Graphs

ConocoPhillips - Line NM1-1

Hobbs, New Mexico




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:**

**10010898**

| Report To: | | Project Name: | COP Line NM1-1 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 2/9/2010 |

This Report Contains A Total Of 23 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

2/9/2010

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:

## 10010898

| Report To: | | Project Name: | COP Line NM1-1 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 2/9/2010 |

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSES AND EXCEPTIONS:

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.

SW8015B - Diesel Range Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted for Batch ID: 97521. 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.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry " ).

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.

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.



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



2/9/2010

Erica Cardenas
Project Manager

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:**

## 10010898

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.



2/9/2010

Erica Cardenas
Project Manager

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:

## 10010898

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

Midland
TX
79705-
ph: (432) 682-4559 fax: (432) 686-8085

**Fax To:**

**Project Name:** COP Line NM1-1
**Site:** Hobbs, NM
**Site Address:**

**PO Number:**
**State:** New Mexico
**State Cert. No.:**
**Date Reported:** 2/9/2010

| Client Sample ID | Lab Sample ID | Matrix | Date Collected | Date Received | COC ID | HOLD |
|---|---|---|---|---|---|---|
| SVE-1 | 10010898-01 | Water | 1/26/2010 7:50:00 AM | 1/27/2010 9:30:00 AM | 291684 | ☐ |
| IW-2 | 10010898-02 | Water | 1/26/2010 8:15:00 AM | 1/27/2010 9:30:00 AM | 291684 | ☐ |
| IW-3 | 10010898-03 | Water | 1/26/2010 8:35:00 AM | 1/27/2010 9:30:00 AM | 291684/291694 | ☐ |
| IW-4 | 10010898-04 | Water | 1/26/2010 8:55:00 AM | 1/27/2010 9:30:00 AM | 291694 | ☐ |
| MW-13 | 10010898-05 | Water | 1/26/2010 9:10:00 AM | 1/27/2010 9:30:00 AM | 291694 | ☐ |
| IW-5 | 10010898-06 | Water | 1/26/2010 9:20:00 AM | 1/27/2010 9:30:00 AM | 291695 | ☐ |
| IW-7 | 10010898-07 | Water | 1/26/2010 9:40:00 AM | 1/27/2010 9:30:00 AM | 291695 | ☐ |
| DUP-1 | 10010898-08 | Water | 1/26/2010 1:11:00 AM | 1/27/2010 9:30:00 AM | 291695/291696 | ☐ |
| Trip Blank | 10010898-09 | Water | 1/26/2010 | 1/27/2010 9:30:00 AM | 291695 | ☐ |

Erica Cardenas
Project Manager

2/9/2010
Date

Kesavalu M. Bagawandoss Ph.D., J.D.
Laboratory Director

Ted Yen
Quality Assurance Officer

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

**Client Sample ID** SVE-1 **Collected:** 01/26/2010 7:50 **SPL Sample ID:** 10010898-01

**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 | 02/02/10 18:41 | NW | 5388322 |
| Surr: n-Pentacosane | 76.8 | | % | 10-185 | 1 | 02/02/10 18:41 | NW | 5388322 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | **MCL** | **SW8015B** | **Units: mg/L** | | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 01/29/10 13:19 | R_S | 5383224 |
| Surr: 1,4-Difluorobenzene | 94.1 | | % | 60-155 | 1 | 01/29/10 13:19 | R_S | 5383224 |
| Surr: 4-Bromofluorobenzene | 89.7 | | % | 50-158 | 1 | 01/29/10 13:19 | R_S | 5383224 |
| **ION CHROMATOGRAPHY** | | | | **MCL** | **E300.0** | **Units: mg/L** | | |
| Chloride | 126 | | | 5 | 10 | 01/27/10 17:50 | BDG | 5378522 |
| **PURGEABLE AROMATICS** | | | | **MCL** | **SW8021B** | **Units: ug/L** | | |
| Benzene | ND | | | 1 | 1 | 01/29/10 13:19 | R_S | 5383284 |
| Toluene | ND | | | 1 | 1 | 01/29/10 13:19 | R_S | 5383284 |
| Ethylbenzene | ND | | | 1 | 1 | 01/29/10 13:19 | R_S | 5383284 |
| m,p-Xylene | ND | | | 1 | 1 | 01/29/10 13:19 | R_S | 5383284 |
| o-Xylene | ND | | | 1 | 1 | 01/29/10 13:19 | R_S | 5383284 |
| Xylenes,Total | ND | | | 1 | 1 | 01/29/10 13:19 | R_S | 5383284 |
| Surr: 1,4-Difluorobenzene | 93.9 | | % | 70-130 | 1 | 01/29/10 13:19 | R_S | 5383284 |
| Surr: 4-Bromofluorobenzene | 92.4 | | % | 70-130 | 1 | 01/29/10 13:19 | R_S | 5383284 |

**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
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**Client Sample ID** IW-2 **Collected:** 01/26/2010 8:15 **SPL Sample ID:** 10010898-02

**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 | 1.2 | | | 0.05 | 1 | 02/02/10 19:25 | NW | 5388323 |
| Surr: n-Pentacosane | 82.4 | | % | 10-185 | 1 | 02/02/10 19:25 | NW | 5388323 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 01/29/10 13:50 | R_S | 5383225 |
| Surr: 1,4-Difluorobenzene | 94.3 | | % | 60-155 | 1 | 01/29/10 13:50 | R_S | 5383225 |
| Surr: 4-Bromofluorobenzene | 94.4 | | % | 50-158 | 1 | 01/29/10 13:50 | R_S | 5383225 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 71.7 | | | 5 | 10 | 01/27/10 18:01 | BDG | 5378523 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 01/29/10 13:50 | R_S | 5383285 |
| Toluene | ND | | | 1 | 1 | 01/29/10 13:50 | R_S | 5383285 |
| Ethylbenzene | ND | | | 1 | 1 | 01/29/10 13:50 | R_S | 5383285 |
| m,p-Xylene | ND | | | 1 | 1 | 01/29/10 13:50 | R_S | 5383285 |
| o-Xylene | ND | | | 1 | 1 | 01/29/10 13:50 | R_S | 5383285 |
| Xylenes,Total | ND | | | 1 | 1 | 01/29/10 13:50 | R_S | 5383285 |
| Surr: 1,4-Difluorobenzene | 94.0 | | % | 70-130 | 1 | 01/29/10 13:50 | R_S | 5383285 |
| Surr: 4-Bromofluorobenzene | 92.2 | | % | 70-130 | 1 | 01/29/10 13:50 | R_S | 5383285 |

**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

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**Client Sample ID** IW-3 **Collected:** 01/26/2010 8:35 **SPL Sample ID:** 10010898-03

**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 | 0.22 | | | 0.05 | 1 | 02/02/10 20:07 | NW | 5388324 |
| Surr: n-Pentacosane | 80.4 | | % | 10-185 | 1 | 02/02/10 20:07 | NW | 5388324 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 01/29/10 14:21 | R_S | 5383226 |
| Surr: 1,4-Difluorobenzene | 93.0 | | % | 60-155 | 1 | 01/29/10 14:21 | R_S | 5383226 |
| Surr: 4-Bromofluorobenzene | 94.9 | | % | 50-158 | 1 | 01/29/10 14:21 | R_S | 5383226 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 79 | | | 5 | 10 | 01/27/10 18:34 | BDG | 5378526 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 01/29/10 14:21 | R_S | 5383286 |
| Toluene | ND | | | 1 | 1 | 01/29/10 14:21 | R_S | 5383286 |
| Ethylbenzene | ND | | | 1 | 1 | 01/29/10 14:21 | R_S | 5383286 |
| m,p-Xylene | ND | | | 1 | 1 | 01/29/10 14:21 | R_S | 5383286 |
| o-Xylene | ND | | | 1 | 1 | 01/29/10 14:21 | R_S | 5383286 |
| Xylenes,Total | ND | | | 1 | 1 | 01/29/10 14:21 | R_S | 5383286 |
| Surr: 1,4-Difluorobenzene | 94.3 | | % | 70-130 | 1 | 01/29/10 14:21 | R_S | 5383286 |
| Surr: 4-Bromofluorobenzene | 91.4 | | % | 70-130 | 1 | 01/29/10 14:21 | R_S | 5383286 |

**Qualifiers:**

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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
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**Client Sample ID** IW-4 **Collected:** 01/26/2010 8:55 **SPL Sample ID:** 10010898-04

**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 | 5.2 | | | 0.1 | 2 | 02/03/10 4:05 | NW | 5388334 |
| Surr: n-Pentacosane | 106 | | % | 10-185 | 2 | 02/03/10 4:05 | NW | 5388334 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | MCL | SW8015B | Units: mg/L | | |
| Gasoline Range Organics | 0.17 | | | 0.1 | 1 | 02/01/10 15:26 | R_S | 5385084 |
| Surr: 1,4-Difluorobenzene | 93.8 | | % | 60-155 | 1 | 02/01/10 15:26 | R_S | 5385084 |
| Surr: 4-Bromofluorobenzene | 98.7 | | % | 50-158 | 1 | 02/01/10 15:26 | R_S | 5385084 |
| **ION CHROMATOGRAPHY** | | | | MCL | E300.0 | Units: mg/L | | |
| Chloride | 72.7 | | | 5 | 10 | 01/27/10 18:45 | BDG | 5378527 |
| **PURGEABLE AROMATICS** | | | | MCL | SW8021B | Units: ug/L | | |
| Benzene | ND | | | 1 | 1 | 02/01/10 15:26 | R_S | 5385152 |
| Toluene | ND | | | 1 | 1 | 02/01/10 15:26 | R_S | 5385152 |
| Ethylbenzene | ND | | | 1 | 1 | 02/01/10 15:26 | R_S | 5385152 |
| m,p-Xylene | ND | | | 1 | 1 | 02/01/10 15:26 | R_S | 5385152 |
| o-Xylene | ND | | | 1 | 1 | 02/01/10 15:26 | R_S | 5385152 |
| Xylenes,Total | ND | | | 1 | 1 | 02/01/10 15:26 | R_S | 5385152 |
| Surr: 1,4-Difluorobenzene | 94.4 | | % | 70-130 | 1 | 02/01/10 15:26 | R_S | 5385152 |
| Surr: 4-Bromofluorobenzene | 95.0 | | % | 70-130 | 1 | 02/01/10 15:26 | R_S | 5385152 |

**Qualifiers:**

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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
>MCL - Result Over Maximum Contamination Limit(MCL)
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MI - Matrix Interference

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8880 INTERCHANGE DRIVE
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**Client Sample ID** MW-13 **Collected:** 01/26/2010 9:10 **SPL Sample ID:** 10010898-05

**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 | 0.43 | | | 0.05 | 1 | 02/02/10 20:49 | NW | 5388325 |
| *Surr: n-Pentacosane* | 101 | | % | 10-185 | 1 | 02/02/10 20:49 | NW | 5388325 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.95 | | | 0.1 | 1 | 01/29/10 17:28 | R_S | 5383229 |
| Surr: 1,4-Difluorobenzene | 106 | | % | 60-155 | 1 | 01/29/10 17:28 | R_S | 5383229 |
| Surr: 4-Bromofluorobenzene | 102 | | % | 50-158 | 1 | 01/29/10 17:28 | R_S | 5383229 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 163 | | | 5 | 10 | 01/27/10 18:56 | BDG | 5378528 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | 250 | | | 1 | 1 | 01/29/10 17:28 | R_S | 5383289 |
| Toluene | ND | | | 1 | 1 | 01/29/10 17:28 | R_S | 5383289 |
| Ethylbenzene | 3.8 | | | 1 | 1 | 01/29/10 17:28 | R_S | 5383289 |
| m,p-Xylene | ND | | | 1 | 1 | 01/29/10 17:28 | R_S | 5383289 |
| o-Xylene | 7.7 | | | 1 | 1 | 01/29/10 17:28 | R_S | 5383289 |
| Xylenes,Total | 7.7 | | | 1 | 1 | 01/29/10 17:28 | R_S | 5383289 |
| Surr: 1,4-Difluorobenzene | 99.3 | | % | 70-130 | 1 | 01/29/10 17:28 | R_S | 5383289 |
| Surr: 4-Bromofluorobenzene | 93.9 | | % | 70-130 | 1 | 01/29/10 17:28 | R_S | 5383289 |

**Qualifiers:**

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* - Surrogate Recovery Outside Advisable QC Limits
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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:** 01/26/2010 9:20 **SPL Sample ID:** 10010898-06

**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 | 3.5 | | | 0.05 | 1 | 02/03/10 3:27 | NW | 5388333 |
| Surr: n-Pentacosane | 94.2 | | % | 10-185 | 1 | 02/03/10 3:27 | NW | 5388333 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.47 | | | 0.1 | 1 | 02/01/10 15:57 | R_S | 5385085 |
| Surr: 1,4-Difluorobenzene | 102 | | % | 60-155 | 1 | 02/01/10 15:57 | R_S | 5385085 |
| Surr: 4-Bromofluorobenzene | 96.2 | | % | 50-158 | 1 | 02/01/10 15:57 | R_S | 5385085 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 75.4 | | | 5 | 10 | 01/27/10 19:07 | BDG | 5378529 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | 3.5 | | | 1 | 1 | 02/01/10 15:57 | R_S | 5385153 |
| Toluene | 1.6 | | | 1 | 1 | 02/01/10 15:57 | R_S | 5385153 |
| Ethylbenzene | ND | | | 1 | 1 | 02/01/10 15:57 | R_S | 5385153 |
| m,p-Xylene | 1.1 | | | 1 | 1 | 02/01/10 15:57 | R_S | 5385153 |
| o-Xylene | ND | | | 1 | 1 | 02/01/10 15:57 | R_S | 5385153 |
| Xylenes,Total | 1.1 | | | 1 | 1 | 02/01/10 15:57 | R_S | 5385153 |
| Surr: 1,4-Difluorobenzene | 95.3 | | % | 70-130 | 1 | 02/01/10 15:57 | R_S | 5385153 |
| Surr: 4-Bromofluorobenzene | 92.8 | | % | 70-130 | 1 | 02/01/10 15:57 | R_S | 5385153 |

**Qualifiers:**

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* - 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:** 01/26/2010 9:40 **SPL Sample ID:** 10010898-07

**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 | 20 | | | 0.5 | 10 | 02/03/10 4:43 | NW | 5388335 |
| Surr: n-Pentacosane | 171 | | % | 10-185 | 10 | 02/03/10 4:43 | NW | 5388335 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | **MCL** | **SW8015B** | **Units: mg/L** | | |
| Gasoline Range Organics | 0.24 | | | 0.1 | 1 | 02/01/10 16:28 | R_S | 5385086 |
| Surr: 1,4-Difluorobenzene | 99.2 | | % | 60-155 | 1 | 02/01/10 16:28 | R_S | 5385086 |
| Surr: 4-Bromofluorobenzene | 99.0 | | % | 50-158 | 1 | 02/01/10 16:28 | R_S | 5385086 |
| **ION CHROMATOGRAPHY** | | | | **MCL** | **E300.0** | **Units: mg/L** | | |
| Chloride | 79.4 | | | 5 | 10 | 01/27/10 19:18 | BDG | 5378530 |
| **PURGEABLE AROMATICS** | | | | **MCL** | **SW8021B** | **Units: ug/L** | | |
| Benzene | ND | | | 1 | 1 | 02/01/10 16:28 | R_S | 5385154 |
| Toluene | ND | | | 1 | 1 | 02/01/10 16:28 | R_S | 5385154 |
| Ethylbenzene | ND | | | 1 | 1 | 02/01/10 16:28 | R_S | 5385154 |
| m,p-Xylene | ND | | | 1 | 1 | 02/01/10 16:28 | R_S | 5385154 |
| o-Xylene | ND | | | 1 | 1 | 02/01/10 16:28 | R_S | 5385154 |
| Xylenes,Total | ND | | | 1 | 1 | 02/01/10 16:28 | R_S | 5385154 |
| Surr: 1,4-Difluorobenzene | 96.6 | | % | 70-130 | 1 | 02/01/10 16:28 | R_S | 5385154 |
| Surr: 4-Bromofluorobenzene | 93.9 | | % | 70-130 | 1 | 02/01/10 16:28 | R_S | 5385154 |

**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

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**Client Sample ID** DUP-1 **Collected:** 01/26/2010 1:11 **SPL Sample ID:** 10010898-08

**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 | 43 | | | 1 | 20 | 02/03/10 5:21 | NW | 5388336 |
| Surr: n-Pentacosane | D | * | % | 10-185 | 20 | 02/03/10 5:21 | NW | 5388336 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 02/01/2010 15:38 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.27 | | | 0.1 | 1 | 02/01/10 17:00 | R_S | 5385087 |
| Surr: 1,4-Difluorobenzene | 99.1 | | % | 60-155 | 1 | 02/01/10 17:00 | R_S | 5385087 |
| Surr: 4-Bromofluorobenzene | 102 | | % | 50-158 | 1 | 02/01/10 17:00 | R_S | 5385087 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 71 | | | 5 | 10 | 01/27/10 19:29 | BDG | 5378531 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 02/01/10 17:00 | R_S | 5385155 |
| Toluene | ND | | | 1 | 1 | 02/01/10 17:00 | R_S | 5385155 |
| Ethylbenzene | ND | | | 1 | 1 | 02/01/10 17:00 | R_S | 5385155 |
| m,p-Xylene | ND | | | 1 | 1 | 02/01/10 17:00 | R_S | 5385155 |
| o-Xylene | ND | | | 1 | 1 | 02/01/10 17:00 | R_S | 5385155 |
| Xylenes,Total | ND | | | 1 | 1 | 02/01/10 17:00 | R_S | 5385155 |
| Surr: 1,4-Difluorobenzene | 97.2 | | % | 70-130 | 1 | 02/01/10 17:00 | R_S | 5385155 |
| Surr: 4-Bromofluorobenzene | 95.4 | | % | 70-130 | 1 | 02/01/10 17:00 | R_S | 5385155 |

**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

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**Client Sample ID** Trip Blank **Collected:** 01/26/2010 0:00 **SPL Sample ID:** 10010898-09

**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 | 01/29/10 12:48 | R_S | 5383223 |
| Surr: 1,4-Difluorobenzene | 93.5 | | % | 60-155 | 1 | 01/29/10 12:48 | R_S | 5383223 |
| Surr: 4-Bromofluorobenzene | 93.1 | | % | 50-158 | 1 | 01/29/10 12:48 | R_S | 5383223 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 01/29/10 12:48 | R_S | 5383283 |
| Toluene | ND | | | 1 | 1 | 01/29/10 12:48 | R_S | 5383283 |
| Ethylbenzene | ND | | | 1 | 1 | 01/29/10 12:48 | R_S | 5383283 |
| m,p-Xylene | ND | | | 1 | 1 | 01/29/10 12:48 | R_S | 5383283 |
| o-Xylene | ND | | | 1 | 1 | 01/29/10 12:48 | R_S | 5383283 |
| Xylenes,Total | ND | | | 1 | 1 | 01/29/10 12:48 | R_S | 5383283 |
| Surr: 1,4-Difluorobenzene | 93.5 | | % | 70-130 | 1 | 01/29/10 12:48 | R_S | 5383283 |
| Surr: 4-Bromofluorobenzene | 92.1 | | % | 70-130 | 1 | 01/29/10 12:48 | R_S | 5383283 |

**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*

HOUSTON LABORATORY
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(713) 660-0901

# Quality Control Report

## Conoco Phillips

**COP Line NM1-1**

**Analysis:** Diesel Range Organics
**Method:** SW8015B
**WorkOrder:** 10010898
**Lab Batch ID:** 97521

### Method Blank

RunID: HP_Z_100202A-5388319 Units: mg/L
Analysis Date: 02/02/2010 16:27 Analyst: NW
Preparation Date: 02/01/2010 15:38 Prep By: N_M Method SW3510C

| Analyte | Result | Rep Limit |
|---|---|---|
| Diesel Range Organics | ND | 0.050 |
| Surr: n-Pentacosane | 123.4 | 10-185 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 10010898-01B | SVE-1 |
| 10010898-02B | IW-2 |
| 10010898-03B | IW-3 |
| 10010898-04B | IW-4 |
| 10010898-05B | MW-13 |
| 10010898-06B | IW-5 |
| 10010898-07B | IW-7 |
| 10010898-08B | DUP-1 |

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

RunID: HP_Z_100202A-5388320 Units: mg/L
Analysis Date: 02/02/2010 17:13 Analyst: NW
Preparation Date: 02/01/2010 15:38 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 | 2.27 | 113 | 2.00 | 2.33 | 116 | 2.5 | 43 | 21 | 175 |
| Surr: n-Pentacosane | 0.0500 | 0.0754 | 151 | 0.0500 | 0.0678 | 136 | 10.6 | 43 | 10 | 185 |

**Qualifiers:**

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J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**COP Line NM1-1**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B
**WorkOrder:** 10010898
**Lab Batch ID:** R294679

### Method Blank

RunID: HP_N_100129A-5383222 Units: mg/L
Analysis Date: 01/29/2010 12:17 Analyst: R_S

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 94.0 | 60-155 |
| Surr: 4-Bromofluorobenzene | 92.8 | 50-158 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 10010898-01A | SVE-1 |
| 10010898-02A | IW-2 |
| 10010898-03A | IW-3 |
| 10010898-05A | MW-13 |
| 10010898-09A | Trip Blank |

### Laboratory Control Sample (LCS)

RunID: HP_N_100129A-5383221 Units: mg/L
Analysis Date: 01/29/2010 11:15 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 1.00 | 0.949 | 94.9 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.1 | 100 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.0953 | 95.3 | 50 | 158 |

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

Sample Spiked: 10010898-08
RunID: HP_N_100129A-5383230 Units: mg/L
Analysis Date: 01/29/2010 19:33 Analyst: R_S

| 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 | 50 | 45.8 | 84.5 | 50 | 44.1 | 81.1 | 3.78 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 5 | 4.95 | 98.9 | 5 | 4.97 | 99.3 | 0.436 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 5 | 4.87 | 97.4 | 5 | 4.76 | 95.2 | 2.27 | 30 | 50 | 158 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**COP Line NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 10010898
**Lab Batch ID:** R294685

### Method Blank

RunID: HP_N_100129B-5383282 Units: ug/L
Analysis Date: 01/29/2010 12:17 Analyst: R_S

| 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 | 94.2 | 70-130 |
| Surr: 4-Bromofluorobenzene | 92.3 | 70-130 |

### Samples in Analytical Batch:

| Lab Sample ID | Client Sample ID |
|---|---|
| 10010898-01A | SVE-1 |
| 10010898-02A | IW-2 |
| 10010898-03A | IW-3 |
| 10010898-05A | MW-13 |
| 10010898-09A | Trip Blank |

### Laboratory Control Sample (LCS)

RunID: HP_N_100129B-5383281 Units: ug/L
Analysis Date: 01/29/2010 10:43 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Benzene | 20.0 | 19.5 | 97.7 | 70 | 130 |
| Ethylbenzene | 20.0 | 20.8 | 104 | 70 | 130 |
| Toluene | 20.0 | 20.0 | 100 | 70 | 130 |
| m,p-Xylene | 40.0 | 42.3 | 106 | 70 | 130 |
| o-Xylene | 20.0 | 20.6 | 103 | 70 | 130 |
| Xylenes,Total | 60.0 | 62.9 | 105 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 93.4 | 93.4 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 92.7 | 92.7 | 70 | 130 |

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

Sample Spiked: 10010898-08
RunID: HP_N_100129B-5383291 Units: ug/L
Analysis Date: 01/29/2010 20:35 Analyst: R_S

**Qualifiers:**

ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

### Conoco Phillips

**COP Line NM1-1**

**Analysis:** Purgeable Aromatics **WorkOrder:** 10010898
**Method:** SW8021B **Lab Batch ID:** R294685

| 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 | 1000 | 984 | 98.4 | 1000 | 977 | 97.7 | 0.700 | 31 | 66 | 141 |
| Ethylbenzene | ND | 1000 | 1040 | 104 | 1000 | 1020 | 102 | 1.95 | 28 | 52 | 136 |
| Toluene | ND | 1000 | 1010 | 101 | 1000 | 995 | 99.5 | 1.04 | 25 | 61 | 131 |
| m,p-Xylene | ND | 2000 | 2110 | 105 | 2000 | 2060 | 103 | 2.17 | 36 | 60 | 130 |
| o-Xylene | ND | 1000 | 1030 | 103 | 1000 | 1010 | 101 | 1.96 | 30 | 64 | 130 |
| Xylenes,Total | ND | 3000 | 3140 | 104 | 3000 | 3070 | 102 | 2.10 | 36 | 60 | 130 |
| Surr: 1,4-Difluorobenzene | ND | 5000 | 4650 | 93.1 | 5000 | 4670 | 93.5 | 0.401 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 5000 | 4690 | 93.8 | 5000 | 4680 | 93.7 | 0.105 | 30 | 70 | 130 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**COP Line NM1-1**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B
**WorkOrder:** 10010898
**Lab Batch ID:** R294800

### Method Blank

RunID: HP_N_100201A-5385083 Units: mg/L
Analysis Date: 02/01/2010 14:55 Analyst: R_S

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 93.4 | 60-155 |
| Surr: 4-Bromofluorobenzene | 92.8 | 50-158 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 10010898-04A | IW-4 |
| 10010898-06A | IW-5 |
| 10010898-07A | IW-7 |
| 10010898-08A | DUP-1 |

### Laboratory Control Sample (LCS)

RunID: HP_N_100201A-5385082 Units: mg/L
Analysis Date: 02/01/2010 13:53 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 1.00 | 0.953 | 95.3 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.0969 | 96.9 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.0951 | 95.1 | 50 | 158 |

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

Sample Spiked: 10010953-07
RunID: HP_N_100201A-5385094 Units: mg/L
Analysis Date: 02/01/2010 21:43 Analyst: R_S

| 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 | 15.2 | 50 | 59.5 | 88.7 | 50 | 62.0 | 93.7 | 4.08 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 5 | 5.01 | 100 | 5 | 5.03 | 101 | 0.381 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 5 | 4.77 | 95.5 | 5 | 4.78 | 95.6 | 0.144 | 30 | 50 | 158 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**COP Line NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 10010898
**Lab Batch ID:** R294803

### Method Blank

RunID: HP_N_100201B-5385151 Units: ug/L
Analysis Date: 02/01/2010 14:55 Analyst: R_S

| 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 | 93.8 | 70-130 |
| Surr: 4-Bromofluorobenzene | 92.1 | 70-130 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 10010898-04A | IW-4 |
| 10010898-06A | IW-5 |
| 10010898-07A | IW-7 |
| 10010898-08A | DUP-1 |

### Laboratory Control Sample (LCS)

RunID: HP_N_100201B-5385150 Units: ug/L
Analysis Date: 02/01/2010 13:22 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Benzene | 20.0 | 18.6 | 92.8 | 70 | 130 |
| Ethylbenzene | 20.0 | 19.9 | 99.3 | 70 | 130 |
| Toluene | 20.0 | 19.3 | 96.6 | 70 | 130 |
| m,p-Xylene | 40.0 | 40.3 | 101 | 70 | 130 |
| o-Xylene | 20.0 | 19.7 | 98.4 | 70 | 130 |
| Xylenes,Total | 60.0 | 60.0 | 100 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 93.3 | 93.3 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 93.6 | 93.6 | 70 | 130 |

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

Sample Spiked: 10010953-07
RunID: HP_N_100201B-5385162 Units: ug/L
Analysis Date: 02/01/2010 22:45 Analyst: R_S

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

### Conoco Phillips

**COP Line NM1-1**

**Analysis:** Purgeable Aromatics **WorkOrder:** 10010898
**Method:** SW8021B **Lab Batch ID:** R294803

| 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 | 5040 | 1000 | 6020 | N/C | 1000 | 5990 | N/C | N/C | 31 | 66 | 141 |
| Ethylbenzene | 135 | 1000 | 1230 | 109 | 1000 | 1240 | 110 | 0.874 | 28 | 52 | 136 |
| Toluene | ND | 1000 | 1100 | 110 | 1000 | 1100 | 110 | 0.356 | 25 | 61 | 131 |
| m,p-Xylene | 98.7 | 2000 | 2330 | 112 | 2000 | 2350 | 112 | 0.648 | 36 | 60 | 130 |
| o-Xylene | 53.1 | 1000 | 1140 | 109 | 1000 | 1150 | 110 | 1.11 | 30 | 64 | 130 |
| Xylenes,Total | 152 | 3000 | 3470 | 111 | 3000 | 3500 | 112 | 0.799 | 36 | 60 | 130 |
| Surr: 1,4-Difluorobenzene | ND | 5000 | 4670 | 93.5 | 5000 | 4660 | 93.2 | 0.262 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 5000 | 4700 | 94.0 | 5000 | 4770 | 95.3 | 1.39 | 30 | 70 | 130 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**COP Line NM1-1**

**Analysis:** Ion Chromatography
**Method:** E300.0

**WorkOrder:** 10010898
**Lab Batch ID:** R294397

### Method Blank

RunID: IC2_100127B-5378514 Units: mg/L
Analysis Date: 01/27/2010 11:35 Analyst: BDG

| Analyte | Result | Rep Limit |
|---|---|---|
| Chloride | ND | 0.50 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 10010898-01C | SVE-1 |
| 10010898-02C | IW-2 |
| 10010898-03C | IW-3 |
| 10010898-04C | IW-4 |
| 10010898-05C | MW-13 |
| 10010898-06C | IW-5 |
| 10010898-07C | IW-7 |
| 10010898-08C | DUP-1 |

### Laboratory Control Sample (LCS)

RunID: IC2_100127B-5378515 Units: mg/L
Analysis Date: 01/27/2010 11:46 Analyst: BDG

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Chloride | 10.00 | 9.543 | 95.43 | 85 | 115 |

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

Sample Spiked: 10010896-01
RunID: IC2_100127B-5378519 Units: mg/L
Analysis Date: 01/27/2010 17:17 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 | 9.776 | 97.76 | 10 | 9.567 | 95.67 | 2.157 | 20 | 80 | 120 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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: | 10010898 | Received By: | AMV |
| Date and Time Received: | 1/27/2010 9:30:00 AM | Carrier name: | Fedex-Standard Overnight |
| Temperature: | 1.6°C | Chilled by: | Water Ice |

| | | | | |
|---|---|---|---|---|
| 1. **Shipping container/cooler in good condition?** | Yes ☑ | No ☐ | Not Present ☐ | |
| 2. **Custody seals intact on shippping 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?** 1. Lab received a Trip Blank not listed on COC. | Yes ☐ | No ☑ | | |
| 7. **Samples in proper container/bottle?** | Yes ☑ | No ☐ | | |
| 8. **Sample containers intact?** 2. Lab received one of the two 60ml vials from sample IW-5 broken. | 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 for 8015 and 8021 analysis. 2. One vial remains for analysis.

**Client Instructions:**

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
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(713) 660-0901

## Conoco Phillips

**Certificate of Analysis Number:**

**09101378**

| Report To: | | Project Name: | 1159640005/ NM1-1 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | 4511063168 |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 11/9/2009 |

This Report Contains A Total Of 23 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

11/11/2009

Date

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

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

## Case Narrative for:

# Conoco Phillips

## Certificate of Analysis Number:

## 09101378

| Report To: | | Project Name: | 1159640005/ NM1-1 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | 4511063168 |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 11/9/2009 |

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSIS AND EXCEPTIONS:

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.

SW8015B - Diesel Range Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted for Batch ID: 95178. 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.

III. GENERAL REPORTING COMMENTS:

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.

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.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.



Erica Cardenas
Project Manager

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:

## 09101378

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

Midland
TX
79705-
ph: (432) 682-4559 fax: (432) 686-8085

**Fax To:**

**Project Name:** 1159640005/ NM1-1
**Site:** Hobbs, NM
**Site Address:**

**PO Number:** 4511063168
**State:** New Mexico
**State Cert. No.:**
**Date Reported:** 11/9/2009

| Client Sample ID | Lab Sample ID | Matrix | Date Collected | Date Received | COC ID | HOLD |
|---|---|---|---|---|---|---|
| SVE-1 | 09101378-01 | Water | 10/27/2009 8:24:00 AM | 10/28/2009 9:30:00 AM | 301702 | ☐ |
| IW-2 | 09101378-02 | Water | 10/27/2009 8:45:00 AM | 10/28/2009 9:30:00 AM | 301702 | ☐ |
| IW-3 | 09101378-03 | Water | 10/27/2009 9:08:00 AM | 10/28/2009 9:30:00 AM | 301702 | ☐ |
| IW-3 | 09101378-03 | Water | 10/27/2009 9:08:00 AM | 10/28/2009 9:30:00 AM | 301703 | ☐ |
| IW-4 | 09101378-04 | Water | 10/27/2009 9:30:00 AM | 10/28/2009 9:30:00 AM | 301702 | ☐ |
| IW-4 | 09101378-04 | Water | 10/27/2009 9:30:00 AM | 10/28/2009 9:30:00 AM | 301703 | ☐ |
| MW-13 | 09101378-05 | Water | 10/27/2009 9:50:00 AM | 10/28/2009 9:30:00 AM | 301702 | ☐ |
| MW-13 | 09101378-05 | Water | 10/27/2009 9:50:00 AM | 10/28/2009 9:30:00 AM | 301703 | ☐ |
| IW-5 | 09101378-06 | Water | 10/27/2009 10:10:00 AM | 10/28/2009 9:30:00 AM | 301694 | ☐ |
| IW-7 | 09101378-07 | Water | 10/27/2009 10:45:00 AM | 10/28/2009 9:30:00 AM | 301694 | ☐ |
| IW-7 | 09101378-07 | Water | 10/27/2009 10:45:00 AM | 10/28/2009 9:30:00 AM | 301702 | ☐ |
| DUP-1 | 09101378-08 | Water | 10/27/2009 | 10/28/2009 9:30:00 AM | 301694 | ☐ |
| DUP-1 | 09101378-08 | Water | 10/27/2009 | 10/28/2009 9:30:00 AM | 301695 | ☐ |
| DUP-1 | 09101378-08 | Water | 10/27/2009 | 10/28/2009 9:30:00 AM | 301702 | ☐ |
| Trip Blank | 09101378-09 | Water | 10/27/2009 | 10/28/2009 9:30:00 AM | | ☐ |

E. A. Cardenas

11/11/2009

Erica Cardenas
Project Manager

Date

Kesavalu M. Bagawandoss Ph.D., J.D.
Laboratory Director

Ted Yen
Quality Assurance Officer

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

**Client Sample ID:** SVE-1 **Collected:** 10/27/2009 8:24 **SPL Sample ID:** 09101378-01

**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 | 11/02/09 14:49 | NW | 5281266 |
| Surr: n-Pentacosane | 67.4 | | % | 10-185 | 1 | 11/02/09 14:49 | NW | 5281266 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 10/29/09 21:34 | R_S | 5267189 |
| Surr: 1,4-Difluorobenzene | 91.1 | | % | 60-155 | 1 | 10/29/09 21:34 | R_S | 5267189 |
| Surr: 4-Bromofluorobenzene | 95.4 | | % | 50-158 | 1 | 10/29/09 21:34 | R_S | 5267189 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 133 | | | 10 | 20 | 11/02/09 22:02 | BDG | 5274502 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 10/30/09 0:21 | R_S | 5267309 |
| Toluene | ND | | | 1 | 1 | 10/30/09 0:21 | R_S | 5267309 |
| Ethylbenzene | ND | | | 1 | 1 | 10/30/09 0:21 | R_S | 5267309 |
| m,p-Xylene | ND | | | 1 | 1 | 10/30/09 0:21 | R_S | 5267309 |
| o-Xylene | ND | | | 1 | 1 | 10/30/09 0:21 | R_S | 5267309 |
| Xylenes,Total | ND | | | 1 | 1 | 10/30/09 0:21 | R_S | 5267309 |
| Surr: 1,4-Difluorobenzene | 89.4 | | % | 70-130 | 1 | 10/30/09 0:21 | R_S | 5267309 |
| Surr: 4-Bromofluorobenzene | 94.7 | | % | 70-130 | 1 | 10/30/09 0:21 | R_S | 5267309 |

**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:** 10/27/2009 8:45 **SPL Sample ID:** 09101378-02

**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 | 1.5 | | | 0.05 | 1 | 11/02/09 15:20 | NW | 5281267 |
| Surr: n-Pentacosane | 72.6 | | % | 10-185 | 1 | 11/02/09 15:20 | NW | 5281267 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | **MCL** | **SW8015B** | **Units: mg/L** | | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 11/02/09 11:23 | R_S | 5273288 |
| Surr: 1,4-Difluorobenzene | 96.6 | | % | 60-155 | 1 | 11/02/09 11:23 | R_S | 5273288 |
| Surr: 4-Bromofluorobenzene | 92.5 | | % | 50-158 | 1 | 11/02/09 11:23 | R_S | 5273288 |
| **ION CHROMATOGRAPHY** | | | | **MCL** | **E300.0** | **Units: mg/L** | | |
| Chloride | 80.5 | | | 10 | 20 | 11/02/09 22:18 | BDG | 5274503 |
| **PURGEABLE AROMATICS** | | | | **MCL** | **SW8021B** | **Units: ug/L** | | |
| Benzene | ND | | | 1 | 1 | 11/02/09 13:17 | R_S | 5273006 |
| Toluene | ND | | | 1 | 1 | 11/02/09 13:17 | R_S | 5273006 |
| Ethylbenzene | ND | | | 1 | 1 | 11/02/09 13:17 | R_S | 5273006 |
| m,p-Xylene | ND | | | 1 | 1 | 11/02/09 13:17 | R_S | 5273006 |
| o-Xylene | ND | | | 1 | 1 | 11/02/09 13:17 | R_S | 5273006 |
| Xylenes,Total | ND | | | 1 | 1 | 11/02/09 13:17 | R_S | 5273006 |
| Surr: 1,4-Difluorobenzene | 91.1 | | % | 70-130 | 1 | 11/02/09 13:17 | R_S | 5273006 |
| Surr: 4-Bromofluorobenzene | 96.5 | | % | 70-130 | 1 | 11/02/09 13:17 | R_S | 5273006 |

**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

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**Client Sample ID:** IW-3 **Collected:** 10/27/2009 9:08 **SPL Sample ID:** 09101378-03

**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 | 0.42 | | | 0.05 | 1 | 11/02/09 15:52 | NW | 5281268 |
| Surr: n-Pentacosane | 81.2 | | % | 10-185 | 1 | 11/02/09 15:52 | NW | 5281268 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | MCL | SW8015B | Units: mg/L | | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 10/29/09 20:37 | R_S | 5267188 |
| Surr: 1,4-Difluorobenzene | 90.0 | | % | 60-155 | 1 | 10/29/09 20:37 | R_S | 5267188 |
| Surr: 4-Bromofluorobenzene | 99.9 | | % | 50-158 | 1 | 10/29/09 20:37 | R_S | 5267188 |
| **ION CHROMATOGRAPHY** | | | | MCL | E300.0 | Units: mg/L | | |
| Chloride | 98.6 | | | 10 | 20 | 11/02/09 22:35 | BDG | 5274504 |
| **PURGEABLE AROMATICS** | | | | MCL | SW8021B | Units: ug/L | | |
| Benzene | ND | | | 1 | 1 | 10/29/09 18:02 | R_S | 5267304 |
| Toluene | ND | | | 1 | 1 | 10/29/09 18:02 | R_S | 5267304 |
| Ethylbenzene | ND | | | 1 | 1 | 10/29/09 18:02 | R_S | 5267304 |
| m,p-Xylene | ND | | | 1 | 1 | 10/29/09 18:02 | R_S | 5267304 |
| o-Xylene | ND | | | 1 | 1 | 10/29/09 18:02 | R_S | 5267304 |
| Xylenes,Total | ND | | | 1 | 1 | 10/29/09 18:02 | R_S | 5267304 |
| Surr: 1,4-Difluorobenzene | 91.8 | | % | 70-130 | 1 | 10/29/09 18:02 | R_S | 5267304 |
| Surr: 4-Bromofluorobenzene | 97.0 | | % | 70-130 | 1 | 10/29/09 18:02 | R_S | 5267304 |

**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:** 10/27/2009 9:30 **SPL Sample ID:** 09101378-04

**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 | 8.1 | | | 0.1 | 2 | 11/03/09 13:25 | NW | 5281278 |
| Surr: n-Pentacosane | 91.0 | | % | 10-185 | 2 | 11/03/09 13:25 | NW | 5281278 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | **MCL** | **SW8015B** | **Units: mg/L** | | |
| Gasoline Range Organics | 0.17 | | | 0.1 | 1 | 11/02/09 11:51 | R_S | 5273289 |
| Surr: 1,4-Difluorobenzene | 98.3 | | % | 60-155 | 1 | 11/02/09 11:51 | R_S | 5273289 |
| Surr: 4-Bromofluorobenzene | 94.6 | | % | 50-158 | 1 | 11/02/09 11:51 | R_S | 5273289 |
| **ION CHROMATOGRAPHY** | | | | **MCL** | **E300.0** | **Units: mg/L** | | |
| Chloride | 93.4 | | | 10 | 20 | 11/02/09 23:25 | BDG | 5274507 |
| **PURGEABLE AROMATICS** | | | | **MCL** | **SW8021B** | **Units: ug/L** | | |
| Benzene | ND | | | 1 | 1 | 11/02/09 13:48 | R_S | 5273007 |
| Toluene | ND | | | 1 | 1 | 11/02/09 13:48 | R_S | 5273007 |
| Ethylbenzene | ND | | | 1 | 1 | 11/02/09 13:48 | R_S | 5273007 |
| m,p-Xylene | ND | | | 1 | 1 | 11/02/09 13:48 | R_S | 5273007 |
| o-Xylene | ND | | | 1 | 1 | 11/02/09 13:48 | R_S | 5273007 |
| Xylenes,Total | ND | | | 1 | 1 | 11/02/09 13:48 | R_S | 5273007 |
| Surr: 1,4-Difluorobenzene | 90.8 | | % | 70-130 | 1 | 11/02/09 13:48 | R_S | 5273007 |
| Surr: 4-Bromofluorobenzene | 99.1 | | % | 70-130 | 1 | 11/02/09 13:48 | R_S | 5273007 |

**Qualifiers:**

ND/U - Not Detected at the Reporting Limit
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* - 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:** 10/27/2009 9:50 **SPL Sample ID:** 09101378-05

**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 | 0.47 | | | 0.05 | 1 | 11/02/09 16:23 | NW | 5281269 |
| Surr: n-Pentacosane | 67.2 | | % | 10-185 | 1 | 11/02/09 16:23 | NW | 5281269 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 1.6 | | | 0.5 | 5 | 11/02/09 13:45 | R_S | 5273293 |
| Surr: 1,4-Difluorobenzene | 98.5 | | % | 60-155 | 5 | 11/02/09 13:45 | R_S | 5273293 |
| Surr: 4-Bromofluorobenzene | 92.2 | | % | 50-158 | 5 | 11/02/09 13:45 | R_S | 5273293 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 180 | | | 10 | 20 | 11/02/09 23:42 | BDG | 5274508 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | 560 | | | 25 | 25 | 10/29/09 19:37 | R_S | 5267503 |
| Toluene | ND | | | 1 | 1 | 11/02/09 15:54 | R_S | 5273011 |
| Ethylbenzene | 4.1 | | | 1 | 1 | 11/02/09 15:54 | R_S | 5273011 |
| m,p-Xylene | ND | | | 1 | 1 | 11/02/09 15:54 | R_S | 5273011 |
| o-Xylene | 1.4 | | | 1 | 1 | 11/02/09 15:54 | R_S | 5273011 |
| Xylenes,Total | 1.4 | | | 1 | 1 | 11/02/09 15:54 | R_S | 5273011 |
| Surr: 1,4-Difluorobenzene | 91.0 | | % | 70-130 | 25 | 10/29/09 19:37 | R_S | 5267503 |
| Surr: 1,4-Difluorobenzene | 98.7 | | % | 70-130 | 1 | 11/02/09 15:54 | R_S | 5273011 |
| Surr: 4-Bromofluorobenzene | 95.3 | | % | 70-130 | 25 | 10/29/09 19:37 | R_S | 5267503 |
| Surr: 4-Bromofluorobenzene | 96.6 | | % | 70-130 | 1 | 11/02/09 15:54 | R_S | 5273011 |

**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:** 10/27/2009 10:10 **SPL Sample ID:** 09101378-06

**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 | 5.5 | | | 0.1 | 2 | 11/03/09 13:56 | NW | 5281279 |
| Surr: n-Pentacosane | 79.4 | | % | 10-185 | 2 | 11/03/09 13:56 | NW | 5281279 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | **MCL** | **SW8015B** | **Units: mg/L** | | |
| Gasoline Range Organics | 0.36 | | | 0.1 | 1 | 11/02/09 12:20 | R_S | 5273290 |
| Surr: 1,4-Difluorobenzene | 99.9 | | % | 60-155 | 1 | 11/02/09 12:20 | R_S | 5273290 |
| Surr: 4-Bromofluorobenzene | 103 | | % | 50-158 | 1 | 11/02/09 12:20 | R_S | 5273290 |
| **ION CHROMATOGRAPHY** | | | | **MCL** | **E300.0** | **Units: mg/L** | | |
| Chloride | 62.2 | | | 10 | 20 | 11/04/09 14:33 | BDG | 5276825 |
| **PURGEABLE AROMATICS** | | | | **MCL** | **SW8021B** | **Units: ug/L** | | |
| Benzene | 1.5 | | | 1 | 1 | 11/02/09 14:19 | R_S | 5273008 |
| Toluene | ND | | | 1 | 1 | 11/02/09 14:19 | R_S | 5273008 |
| Ethylbenzene | ND | | | 1 | 1 | 11/02/09 14:19 | R_S | 5273008 |
| m,p-Xylene | 1 | | | 1 | 1 | 11/02/09 14:19 | R_S | 5273008 |
| o-Xylene | ND | | | 1 | 1 | 11/02/09 14:19 | R_S | 5273008 |
| Xylenes,Total | 1 | | | 1 | 1 | 11/02/09 14:19 | R_S | 5273008 |
| Surr: 1,4-Difluorobenzene | 90.9 | | % | 70-130 | 1 | 11/02/09 14:19 | R_S | 5273008 |
| Surr: 4-Bromofluorobenzene | 95.6 | | % | 70-130 | 1 | 11/02/09 14:19 | R_S | 5273008 |

**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

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**Client Sample ID:** IW-7 **Collected:** 10/27/2009 10:45 **SPL Sample ID:** 09101378-07

**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 | 20 | | | 0.5 | 10 | 11/02/09 21:09 | NW | 5281274 |
| Surr: n-Pentacosane | 155 | | % | 10-185 | 10 | 11/02/09 21:09 | NW | 5281274 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.17 | | | 0.1 | 1 | 11/02/09 12:48 | R_S | 5273291 |
| Surr: 1,4-Difluorobenzene | 102 | | % | 60-155 | 1 | 11/02/09 12:48 | R_S | 5273291 |
| Surr: 4-Bromofluorobenzene | 92.9 | | % | 50-158 | 1 | 11/02/09 12:48 | R_S | 5273291 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 88.8 | | | 10 | 20 | 11/02/09 23:58 | BDG | 5274509 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 11/02/09 14:51 | R_S | 5273009 |
| Toluene | ND | | | 1 | 1 | 11/02/09 14:51 | R_S | 5273009 |
| Ethylbenzene | ND | | | 1 | 1 | 11/02/09 14:51 | R_S | 5273009 |
| m,p-Xylene | ND | | | 1 | 1 | 11/02/09 14:51 | R_S | 5273009 |
| o-Xylene | ND | | | 1 | 1 | 11/02/09 14:51 | R_S | 5273009 |
| Xylenes,Total | ND | | | 1 | 1 | 11/02/09 14:51 | R_S | 5273009 |
| Surr: 1,4-Difluorobenzene | 91.6 | | % | 70-130 | 1 | 11/02/09 14:51 | R_S | 5273009 |
| Surr: 4-Bromofluorobenzene | 97.5 | | % | 70-130 | 1 | 11/02/09 14:51 | R_S | 5273009 |

**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

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**Client Sample ID:** DUP-1 **Collected:** 10/27/2009 0:00 **SPL Sample ID:** 09101378-08

**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 | 20 | | | 0.5 | 10 | 11/02/09 21:41 | NW | 5281275 |
| Surr: n-Pentacosane | 167 | | % | 10-185 | 10 | 11/02/09 21:41 | NW | 5281275 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 10/30/2009 15:08 | A_G | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.14 | | | 0.1 | 1 | 11/02/09 13:17 | R_S | 5273292 |
| Surr: 1,4-Difluorobenzene | 101 | | % | 60-155 | 1 | 11/02/09 13:17 | R_S | 5273292 |
| Surr: 4-Bromofluorobenzene | 91.7 | | % | 50-158 | 1 | 11/02/09 13:17 | R_S | 5273292 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 84.8 | | | 10 | 20 | 11/03/09 0:15 | BDG | 5274510 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 11/02/09 15:22 | R_S | 5273010 |
| Toluene | ND | | | 1 | 1 | 11/02/09 15:22 | R_S | 5273010 |
| Ethylbenzene | ND | | | 1 | 1 | 11/02/09 15:22 | R_S | 5273010 |
| m,p-Xylene | ND | | | 1 | 1 | 11/02/09 15:22 | R_S | 5273010 |
| o-Xylene | ND | | | 1 | 1 | 11/02/09 15:22 | R_S | 5273010 |
| Xylenes,Total | ND | | | 1 | 1 | 11/02/09 15:22 | R_S | 5273010 |
| Surr: 1,4-Difluorobenzene | 91.3 | | % | 70-130 | 1 | 11/02/09 15:22 | R_S | 5273010 |
| Surr: 4-Bromofluorobenzene | 95.8 | | % | 70-130 | 1 | 11/02/09 15:22 | R_S | 5273010 |

**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

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**Client Sample ID:** Trip Blank **Collected:** 10/27/2009 0:00 **SPL Sample ID:** 09101378-09

**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 | 10/29/09 15:52 | R_S | 5267182 |
| Surr: 1,4-Difluorobenzene | 89.7 | | % 60-155 | 1 | 10/29/09 15:52 | R_S | 5267182 |
| Surr: 4-Bromofluorobenzene | 97.8 | | % 50-158 | 1 | 10/29/09 15:52 | R_S | 5267182 |
| **PURGEABLE AROMATICS** | | | **MCL** | **SW8021B** | **Units: ug/L** | | |
| Benzene | ND | | 1 | 1 | 10/29/09 17:31 | R_S | 5267303 |
| Toluene | ND | | 1 | 1 | 10/29/09 17:31 | R_S | 5267303 |
| Ethylbenzene | ND | | 1 | 1 | 10/29/09 17:31 | R_S | 5267303 |
| m,p-Xylene | ND | | 1 | 1 | 10/29/09 17:31 | R_S | 5267303 |
| o-Xylene | ND | | 1 | 1 | 10/29/09 17:31 | R_S | 5267303 |
| Xylenes,Total | ND | | 1 | 1 | 10/29/09 17:31 | R_S | 5267303 |
| Surr: 1,4-Difluorobenzene | 89.7 | | % 70-130 | 1 | 10/29/09 17:31 | R_S | 5267303 |
| Surr: 4-Bromofluorobenzene | 94.4 | | % 70-130 | 1 | 10/29/09 17:31 | R_S | 5267303 |

**Qualifiers:**

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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*

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
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(713) 660-0901

# Quality Control Report

## Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Diesel Range Organics
**Method:** SW8015B

**WorkOrder:** 09101378
**Lab Batch ID:** 95178

### Method Blank

RunID: HP_Z_091108A-5281263 Units: mg/L
Analysis Date: 11/02/2009 13:16 Analyst: NW
Preparation Date: 10/30/2009 15:08 Prep By: A_G Method: SW3510C

| Analyte | Result | Rep Limit |
|---|---|---|
| Diesel Range Organics | ND | 0.050 |
| Surr: n-Pentacosane | 116.8 | 10-185 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09101378-01B | SVE-1 |
| 09101378-02B | IW-2 |
| 09101378-03B | IW-3 |
| 09101378-04B | IW-4 |
| 09101378-05B | MW-13 |
| 09101378-06B | IW-5 |
| 09101378-07B | IW-7 |
| 09101378-08B | DUP-1 |

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

RunID: HP_Z_091108A-5281264 Units: mg/L
Analysis Date: 11/02/2009 13:47 Analyst: NW
Preparation Date: 10/30/2009 15:08 Prep By: A_G 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 | 1.42 | 71.0 | 2.00 | 1.48 | 73.9 | 4.1 | 43 | 21 | 175 |
| Surr: n-Pentacosane | 0.0500 | 0.0747 | 149 | 0.0500 | 0.0738 | 148 | 1.2 | 43 | 10 | 185 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B

**WorkOrder:** 09101378
**Lab Batch ID:** R287790

### Method Blank

RunID: HP_P_091029A-5267181 Units: mg/L
Analysis Date: 10/29/2009 14:33 Analyst: R_S

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 91.2 | 60-155 |
| Surr: 4-Bromofluorobenzene | 100.0 | 50-158 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09101378-01A | SVE-1 |
| 09101378-03A | IW-3 |
| 09101378-09A | Trip Blank |

### Laboratory Control Sample (LCS)

RunID: HP_P_091029A-5267180 Units: mg/L
Analysis Date: 10/29/2009 13:36 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 1.00 | 1.00 | 100 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.1 | 100 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.102 | 102 | 50 | 158 |

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

Sample Spiked: 09101370-01
RunID: HP_P_091029A-5267184 Units: mg/L
Analysis Date: 10/29/2009 17:18 Analyst: R_S

| 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 | 1.01 | 101 | 1 | 1.07 | 107 | 5.92 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 0.1 | 0.0999 | 99.9 | 0.1 | 0.102 | 102 | 1.88 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 0.1 | 0.102 | 102 | 0.1 | 0.104 | 103 | 1.07 | 30 | 50 | 158 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B

**WorkOrder:** 09101378
**Lab Batch ID:** R287797

### Method Blank

RunID: HP_N_091029A-5267297 Units: ug/L
Analysis Date: 10/29/2009 8:04 Analyst: R_S

| 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 | 91.1 | 70-130 |
| Surr: 4-Bromofluorobenzene | 95.7 | 70-130 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09101378-01A | SVE-1 |
| 09101378-03A | IW-3 |
| 09101378-05A | MW-13 |
| 09101378-09A | Trip Blank |

### Laboratory Control Sample (LCS)

RunID: HP_N_091029A-5267296 Units: ug/L
Analysis Date: 10/29/2009 7:01 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Benzene | 20.0 | 18.6 | 92.8 | 70 | 130 |
| Ethylbenzene | 20.0 | 20.4 | 102 | 70 | 130 |
| Toluene | 20.0 | 19.5 | 97.4 | 70 | 130 |
| m,p-Xylene | 40.0 | 41.8 | 105 | 70 | 130 |
| o-Xylene | 20.0 | 20.5 | 102 | 70 | 130 |
| Xylenes,Total | 60.0 | 62.3 | 104 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 89.9 | 89.9 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 94.4 | 94.4 | 70 | 130 |

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

Sample Spiked: 09101320-06
RunID: HP_N_091029A-5267299 Units: ug/L
Analysis Date: 10/29/2009 12:28 Analyst: R_S

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

### Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B

**WorkOrder:** 09101378
**Lab Batch ID:** R287797

| 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 | 685 | 200 | 848 | 81.6 | 200 | 803 | 59.1 * | 5.47 | 31 | 66 | 141 |
| Ethylbenzene | 18.8 | 200 | 236 | 109 | 200 | 225 | 103 | 4.73 | 28 | 52 | 136 |
| Toluene | 154 | 200 | 350 | 98.0 | 200 | 336 | 90.9 | 4.15 | 25 | 61 | 131 |
| m,p-Xylene | 73.9 | 400 | 517 | 111 | 400 | 495 | 105 | 4.34 | 36 | 60 | 130 |
| o-Xylene | 21.8 | 200 | 238 | 108 | 200 | 228 | 103 | 4.28 | 30 | 64 | 130 |
| Xylenes,Total | 95.8 | 600 | 755 | 110 | 600 | 723 | 105 | 4.32 | 36 | 60 | 130 |
| Surr: 1,4-Difluorobenzene | ND | 1000 | 957 | 95.7 | 1000 | 889 | 88.9 | 7.38 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 1000 | 984 | 98.4 | 1000 | 956 | 95.6 | 2.96 | 30 | 70 | 130 |

**Qualifiers:**

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B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B

**WorkOrder:** 09101378
**Lab Batch ID:** R288111

### Method Blank

RunID: HP_N_091102A-5273004 Units: ug/L
Analysis Date: 11/02/2009 12:45 Analyst: R_S

| 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 | 90.1 | 70-130 |
| Surr: 4-Bromofluorobenzene | 94.1 | 70-130 |

### Samples in Analytical Batch:

| Lab Sample ID | Client Sample ID |
|---|---|
| 09101378-02A | IW-2 |
| 09101378-04A | IW-4 |
| 09101378-05A | MW-13 |
| 09101378-06A | IW-5 |
| 09101378-07A | IW-7 |
| 09101378-08A | DUP-1 |

### Laboratory Control Sample (LCS)

RunID: HP_N_091102A-5273003 Units: ug/L
Analysis Date: 11/02/2009 11:11 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Benzene | 20.0 | 17.3 | 86.7 | 70 | 130 |
| Ethylbenzene | 20.0 | 20.3 | 101 | 70 | 130 |
| Toluene | 20.0 | 18.8 | 93.8 | 70 | 130 |
| m,p-Xylene | 40.0 | 42.0 | 105 | 70 | 130 |
| o-Xylene | 20.0 | 20.3 | 102 | 70 | 130 |
| Xylenes,Total | 60.0 | 62.3 | 104 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 89.7 | 89.7 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 96.7 | 96.7 | 70 | 130 |

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

Sample Spiked: 09101508-01
RunID: HP_N_091102A-5273015 Units: ug/L
Analysis Date: 11/02/2009 18:33 Analyst: R_S

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

### Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Purgeable Aromatics **WorkOrder:** 09101378
**Method:** SW8021B **Lab Batch ID:** R288111

| 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 | 94.1 | 20 | 107 | N/C | 20 | 110 | N/C | N/C | 31 | 66 | 141 |
| Ethylbenzene | 92.9 | 20 | 108 | N/C | 20 | 110 | N/C | N/C | 28 | 52 | 136 |
| Toluene | 40.7 | 20 | 59.9 | 95.8 | 20 | 61.4 | 103 | 2.47 | 25 | 61 | 131 |
| m,p-Xylene | 229 | 40 | 256 | N/C | 40 | 261 | N/C | N/C | 36 | 60 | 130 |
| o-Xylene | 122 | 20 | 136 | N/C | 20 | 138 | N/C | N/C | 30 | 64 | 130 |
| Xylenes,Total | 351 | 60 | 392 | N/C | 60 | 399 | N/C | N/C | 36 | 60 | 130 |
| Surr: 1,4-Difluorobenzene | ND | 100 | 90.6 | 90.6 | 100 | 90.5 | 90.5 | 0.112 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 100 | 104 | 104 | 100 | 104 | 104 | 0.370 | 30 | 70 | 130 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - 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.

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

# Quality Control Report

## Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B

**WorkOrder:** 09101378
**Lab Batch ID:** R288126

### Method Blank

RunID: HP_P_091102A-5273286 Units: mg/L
Analysis Date: 11/02/2009 10:55 Analyst: R_S

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 97.3 | 60-155 |
| Surr: 4-Bromofluorobenzene | 91.7 | 50-158 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09101378-02A | IW-2 |
| 09101378-04A | IW-4 |
| 09101378-05A | MW-13 |
| 09101378-06A | IW-5 |
| 09101378-07A | IW-7 |
| 09101378-08A | DUP-1 |

### Laboratory Control Sample (LCS)

RunID: HP_P_091102A-5273285 Units: mg/L
Analysis Date: 11/02/2009 9:58 Analyst: R_S

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 1.00 | 0.996 | 99.6 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.108 | 108 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.0948 | 94.8 | 50 | 158 |

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

Sample Spiked: 09101498-01
RunID: HP_P_091102A-5273298 Units: mg/L
Analysis Date: 11/02/2009 18:35 Analyst: R_S

| 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 | 0.957 | 95.7 | 1 | 0.964 | 96.4 | 0.760 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 0.1 | 0.106 | 106 | 0.1 | 0.107 | 107 | 0.562 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 0.1 | 0.0946 | 94.6 | 0.1 | 0.0943 | 94.3 | 0.318 | 30 | 50 | 158 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Ion Chromatography **WorkOrder:** 09101378
**Method:** E300.0 **Lab Batch ID:** R288192B

### Method Blank

RunID: IC1_091102A-5274484 Units: mg/L
Analysis Date: 11/02/2009 11:22 Analyst: BDG

| Analyte | Result | Rep Limit |
|---|---|---|
| Chloride | ND | 0.50 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09101378-01C | SVE-1 |
| 09101378-02C | IW-2 |
| 09101378-03C | IW-3 |
| 09101378-04C | IW-4 |
| 09101378-05C | MW-13 |
| 09101378-07C | IW-7 |
| 09101378-08C | DUP-1 |

### Laboratory Control Sample (LCS)

RunID: IC1_091102A-5274485 Units: mg/L
Analysis Date: 11/02/2009 11:39 Analyst: BDG

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Chloride | 10.00 | 9.618 | 96.18 | 85 | 115 |

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

Sample Spiked: 09101409-20
RunID: IC1_091102A-5274533 Units: mg/L
Analysis Date: 11/03/2009 6:38 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 | 143.3 | 100 | 273.0 | 129.8 * | 100 | 273.9 | 130.6 * | 0.3046 | 20 | 80 | 120 |

**Qualifiers:**

ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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

## Conoco Phillips

**1159640005/ NM1-1**

**Analysis:** Ion Chromatography
**Method:** E300.0
**WorkOrder:** 09101378
**Lab Batch ID:** R288335

### Method Blank

RunID: IC1_091104A-5276815 Units: mg/L
Analysis Date: 11/04/2009 11:47 Analyst: BDG

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09101378-06C | IW-5 |

| Analyte | Result | Rep Limit |
|---|---|---|
| Chloride | ND | 0.50 |

### Laboratory Control Sample (LCS)

RunID: IC1_091104A-5276816 Units: mg/L
Analysis Date: 11/04/2009 12:04 Analyst: BDG

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Chloride | 10.00 | 9.783 | 97.83 | 85 | 115 |

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

Sample Spiked: 09110031-01
RunID: IC1_091104A-5276823 Units: mg/L
Analysis Date: 11/04/2009 14:00 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 | 9.607 | 96.07 | 10 | 9.474 | 94.74 | 1.394 | 20 | 80 | 120 |

**Qualifiers:**
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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: | **09101378** | Received By: | **AMV** |
| Date and Time Received: | **10/28/2009 9:30:00 AM** | Carrier name: | **Fedex-Standard Overnight** |
| Temperature: | **1.5°C** | Chilled by: | **Water Ice** |

| | | | | |
|---|---|---|---|---|
| 1. **Shipping container/cooler in good condition?** | Yes ☑ | No ☐ | Not Present ☐ | |
| 2. **Custody seals intact on shippping 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?** 1. One vials broken for IW-5 . | 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. 5 remain for analysis.

**Client Instructions:**

**SPL, Inc.**
Analysis Request & Chain of Custody Record

SPL Workorder No. 09101378 | 301702

page 1 of 4

Client Name: TETRA Tech
Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Phone/Fax: 432 686 8081
Client Contact: Grey POPE Email:
Project Name/No.: 115-96400005
Site Name: NM 1-1
Site Location: Hobbs, NM
Invoice To: ConocoPhillips Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: TPH GRO 8015 | BTEX 8021 | TPH DRO 8015 | CLO. 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVE-1 | 10/27/09 | 824 | | X | W | V | 40 | 1 | 3 | X | | | |
| ↓ | ↓ | ↓ | | X | ↓ | V | 40 | 1 | 3 | | X | | |
| | | | | X | | A | 60 | 1 | 2 | | | X | |
| | | | | X | | P | 1 | X | 1 | | | | X |
| IW-2 | 10/27/09 | 845 | | | | V | 40 | 1 | 3 | X | | | |
| ↓ | | ↓ | | | | V | 40 | 1 | 3 | | X | | |
| | | | | | | A | 60 | 1 | 2 | | | X | |
| | | ↓ | | | | P | 1 | X | 1 | | | | X |
| IW-3 | 10/27/09 | 908 | | | | V | 40 | 1 | 3 | X | | | |
| IW-3 | 10/27/09 | 908 | | ↓ | ↓ | V | 40 | 1 | 3 | | X | | |

Client/Consultant Remarks: TRIP Blank 1 Per cooler

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.5

**Requested TAT**
- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- Rush TAT requires prior notice

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):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: JA Ortiz | 10/27/09 | 300 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 10/28/09 | time 9:30 | 6. Received by Laboratory: Amanda Vickman |

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Traverse City, MI 49686 (231) 947-5777

**SPL, Inc.**
Analysis Request & Chain of Custody Record

SPL Workorder No. 09101378 | 301703 | page 2 of 4

Client Name: TETRA Tech
Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Phone/Fax: 432 686 8081
Client Contact: G. Pope Email:
Project Name/No.: 115964 0005
Site Name: NM I-1
Site Location: Hobbs NM
Invoice To: Conoco Phillips Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: TPH GRO 8015 | BTEX 8021 | TPH DRO 8015 | Cl. 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-3 | 10 27 09 | 903 | | X | W | A | 60 | 1 | 2 | | | X | |
| IW-3 | ↓ | ↓ | | | | P | 1 | X | 1 | | | | X |
| IW-4 | 10/27/09 | 930 | | | | V | 40 | 1 | 3 | X | | | |
| ↓ | ↓ | ↓ | | | | V | 40 | 1 | 3 | | X | | |
| | | | | | | A | 60 | 1 | 2 | | | X | |
| ↓ | ↓ | ↓ | | | | P | 1 | X | 1 | | | | X |
| MW-13 | 10/27/09 | 950 | | | | V | 40 | 1 | 3 | X | | | |
| | ↓ | ↓ | | | | V | 40 | 1 | 3 | | X | | |
| ↓ | | | | | | A | 60 | 1 | 2 | | | X | |
| MW-13 | 10/27/09 | 950 | | ↓ | ↓ | P | 1 | X | 1 | | | | X |

Client/Consultant Remarks: 1 Rep / Cooler

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.5

**Requested TAT**
- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- Rush TAT requires prior notice

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):

| | | | |
|---|---|---|---|
| 1. Relinquished by Sampler: S Drews | date 10/27/09 | time 300 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 10/28/09 | time 930 | 6. Received by Laboratory: Amanda Vickman |

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Traverse City, MI 49686 (231) 947-5777

**SPL, Inc.**
Analysis Request & Chain of Custody Record

SPL Workorder No. 09101378 | 301694 | page 3 of 4

Client Name: TETRA Tech
Address: 1910 N Big Spring
City Midland State TX Zip 79705
Phone/Fax: 432 686 8081
Client Contact: G Pope Email:
Project Name/No.: 115964 0005
Site Name: NM 1-1
Site Location: Hobbs, NM
Invoice To: Conoco Phillips Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: TPH 6ro 8015 | BTEX 8021 | TPH Dro 8015 | Cl 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-5 | 10/29/09 | 10:10 | | X | X | V | 40 | 1 | 3 | X | | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 40 | 1 | 3 | | X | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | A | 60 | 1 | 2 | | | X | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | P | 1 | X | 1 | | | | X |
| IW-7 | 10/~~27~~/09 | 1045 | | ↓ | ↓ | V | 40 | 1 | 3 | X | | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 40 | 1 | 3 | | X | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | A | 60 | 1 | 2 | | | X | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | P | 1 | X | 1 | | | | X |
| DUP-1 | 10/27/09 ~~0002~~ | 0000 | | ↓ | ↓ | V | 40 | 1 | 3 | X | | | |
| DUP-1 | ↓ | ↓ | | ↓ | ↓ | V | 40 | 1 | 3 | | X | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1 5

**Requested TAT**
- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other

Rush TAT requires prior notice

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):

| | | | |
|---|---|---|---|
| 1. Relinquished by Sampler: J Deans | date 10/27/09 | time 300 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 10/28/09 | time 9:30 | 6. Received by Laboratory: Amanda McKnight |

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**SPL, Inc.**
Analysis Request & Chain of Custody Record

SPL Workorder No.: 09101378 | 301695

page 4 of 4

Client Name: ~~Conoco~~ TetraTech
Address: 1910 N BigSpring
City: Midland State: TX Zip: 79705
Phone/Fax: 432 686 8081
Client Contact: G Pope Email:
Project Name/No.: 115964 0005
Site Name: NM 1-1
Site Location: Hobbs, NM
Invoice To: Conoco Phillips Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz. 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

| SAMPLE ID | DATE | TIME | comp | grab | matrix | bottle | size | pres. | Number of Containers | Requested Analysis: TPH 8015 Ext Pro | Requested Analysis: Cl 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dup-1 | 102709 | 0000 | | X | W | A | 60 | 1 | 2 | X | |
| Dup-1 | 102709 | 0000 | | X | W | P | 1 | X | 1 | | X |

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.5

**Requested TAT**
- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- Rush TAT requires prior notice

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):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: S Deems | 10/27/09 | 300 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 10/28/09 | time 930 | 6. Received by Laboratory: Amanda Vickrow |


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HOUSTON LABORATORY
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HOUSTON, TX 77054
(713) 660-0901

## Conoco Phillips

**Certificate of Analysis Number:**

**09071529**

| Report To: | | Project Name: | COP /1159640005 NM1-1 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | 4511063168 |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 8/7/2009 |

This Report Contains A Total Of 23 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

8/10/2009

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:

## 09071529

| Report To: | | Project Name: | COP /1159640005 NM1-1 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | 4511063168 |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 8/7/2009 |

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSES AND EXCEPTIONS:

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.

Diesel Range Organics analysis by Method 8015B:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 92499. 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.

Ion Chromatography analysis by Method 300:

Sample ID "SVE-1" (SPL ID: 09071529-01) was randomly selected for use in SPL's quality control program for Batch ID: R279831A. The Matrix Spike (MS) recovery was outside of the advisable quality control limits due to possible matrix interference for the following analyte: Chloride. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry " ).

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.

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.



8/10/2009

Erica Cardenas
Project Manager

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:

### 09071529

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.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Erica Cardenas



8/10/2009

Erica Cardenas
Project Manager

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:

## 09071529

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

Midland
TX
79705-
ph: (432) 682-4559 fax: (432) 686-8085

**Fax To:**

**Project Name:** COP /1159640005 NM1-1
**Site:** Hobbs, NM
**Site Address:**

**PO Number:** 4511063168
**State:** New Mexico
**State Cert. No.:**
**Date Reported:** 8/7/2009

| Client Sample ID | Lab Sample ID | Matrix | Date Collected | Date Received | COC ID | HOLD |
|---|---|---|---|---|---|---|
| SVE-1 | 09071529-01 | Water | 7/28/2009 8:11:00 AM | 7/29/2009 9:15:00 AM | 326433 | ☐ |
| IW-2 | 09071529-02 | Water | 7/28/2009 8:38:00 AM | 7/29/2009 9:15:00 AM | 326433 | ☐ |
| IW-3 | 09071529-03 | Water | 7/28/2009 8:55:00 AM | 7/29/2009 9:15:00 AM | 326433 | ☐ |
| IW-3 | 09071529-03 | Water | 7/28/2009 8:55:00 AM | 7/29/2009 9:15:00 AM | 326434 | ☐ |
| IW-4 | 09071529-04 | Water | 7/28/2009 9:11:00 AM | 7/29/2009 9:15:00 AM | 326433/326434 | ☐ |
| IW-5 | 09071529-05 | Water | 7/28/2009 9:25:00 AM | 7/29/2009 9:15:00 AM | 326433/326434 | ☐ |
| IW-7 | 09071529-06 | Water | 7/28/2009 9:44:00 AM | 7/29/2009 9:15:00 AM | 326435 | ☐ |
| DUP-01 | 09071529-07 | Water | 7/28/2009 | 7/29/2009 9:15:00 AM | 326435 | ☐ |
| Trip Blank | 09071529-08 | Water | 7/28/2009 | 7/29/2009 9:15:00 AM | 326435 | ☐ |

Erica Cardenas
Project Manager

8/10/2009
Date

Kesavalu M. Bagawandoss Ph.D., J.D.
Laboratory Director

Ted Yen
Quality Assurance Officer

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

**Client Sample ID:** SVE-1 **Collected:** 07/28/2009 8:11 **SPL Sample ID:** 09071529-01

**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 | 08/05/09 5:04 | NW | 5146200 |
| Surr: n-Pentacosane | 111 | | % | 20-150 | 1 | 08/05/09 5:04 | NW | 5146200 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 07/30/09 22:06 | CLJ | 5137520 |
| Surr: 1,4-Difluorobenzene | 94.2 | | % | 60-155 | 1 | 07/30/09 22:06 | CLJ | 5137520 |
| Surr: 4-Bromofluorobenzene | 106 | | % | 50-158 | 1 | 07/30/09 22:06 | CLJ | 5137520 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 113 | | | 5 | 10 | 08/03/09 21:33 | BDG | 5141483 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |
| Toluene | ND | | | 1 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |
| Ethylbenzene | ND | | | 1 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |
| m,p-Xylene | ND | | | 1 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |
| o-Xylene | ND | | | 1 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |
| Xylenes,Total | ND | | | 1 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |
| Surr: 1,4-Difluorobenzene | 99.0 | | % | 70-130 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |
| Surr: 4-Bromofluorobenzene | 93.0 | | % | 70-130 | 1 | 08/01/09 0:20 | E_S1 | 5140635 |

**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:** 07/28/2009 8:38 **SPL Sample ID:** 09071529-02

**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 | 3.9 | | | 0.05 | 1 | 08/05/09 13:23 | NW | 5146211 |
| Surr: n-Pentacosane | 118 | | % | 20-150 | 1 | 08/05/09 13:23 | NW | 5146211 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 07/30/09 22:35 | CLJ | 5137521 |
| Surr: 1,4-Difluorobenzene | 91.9 | | % | 60-155 | 1 | 07/30/09 22:35 | CLJ | 5137521 |
| Surr: 4-Bromofluorobenzene | 106 | | % | 50-158 | 1 | 07/30/09 22:35 | CLJ | 5137521 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 68.3 | | | 5 | 10 | 08/03/09 23:02 | BDG | 5141491 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |
| Toluene | ND | | | 1 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |
| Ethylbenzene | ND | | | 1 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |
| m,p-Xylene | ND | | | 1 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |
| o-Xylene | ND | | | 1 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |
| Xylenes,Total | ND | | | 1 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |
| Surr: 1,4-Difluorobenzene | 98.8 | | % | 70-130 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |
| Surr: 4-Bromofluorobenzene | 94.5 | | % | 70-130 | 1 | 08/01/09 0:52 | E_S1 | 5140636 |

**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:** 07/28/2009 8:55 **SPL Sample ID:** 09071529-03

**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 | 0.43 | | | 0.05 | 1 | 08/05/09 5:35 | NW | 5146201 |
| Surr: n-Pentacosane | 93.2 | | % | 20-150 | 1 | 08/05/09 5:35 | NW | 5146201 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.11 | | | 0.1 | 1 | 07/30/09 23:03 | CLJ | 5137522 |
| Surr: 1,4-Difluorobenzene | 92.7 | | % | 60-155 | 1 | 07/30/09 23:03 | CLJ | 5137522 |
| Surr: 4-Bromofluorobenzene | 106 | | % | 50-158 | 1 | 07/30/09 23:03 | CLJ | 5137522 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 78.1 | | | 5 | 10 | 08/03/09 23:19 | BDG | 5141492 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |
| Toluene | ND | | | 1 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |
| Ethylbenzene | ND | | | 1 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |
| m,p-Xylene | ND | | | 1 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |
| o-Xylene | ND | | | 1 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |
| Xylenes,Total | ND | | | 1 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |
| Surr: 1,4-Difluorobenzene | 98.2 | | % | 70-130 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |
| Surr: 4-Bromofluorobenzene | 93.2 | | % | 70-130 | 1 | 08/01/09 1:24 | E_S1 | 5140637 |

**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:** 07/28/2009 9:11 **SPL Sample ID:** 09071529-04

**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 | 12 | | | 0.5 | 10 | 08/05/09 10:17 | NW | 5146206 |
| Surr: n-Pentacosane | 101 | | % | 20-150 | 10 | 08/05/09 10:17 | NW | 5146206 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.36 | | | 0.1 | 1 | 08/04/09 1:27 | E_S1 | 5146149 |
| Surr: 1,4-Difluorobenzene | 91.9 | | % | 60-155 | 1 | 08/04/09 1:27 | E_S1 | 5146149 |
| Surr: 4-Bromofluorobenzene | 126 | | % | 50-158 | 1 | 08/04/09 1:27 | E_S1 | 5146149 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 72.2 | | | 5 | 10 | 08/03/09 23:37 | BDG | 5141493 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | ND | | | 1 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |
| Toluene | ND | | | 1 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |
| Ethylbenzene | ND | | | 1 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |
| m,p-Xylene | ND | | | 1 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |
| o-Xylene | ND | | | 1 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |
| Xylenes,Total | ND | | | 1 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |
| Surr: 1,4-Difluorobenzene | 98.1 | | % | 70-130 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |
| Surr: 4-Bromofluorobenzene | 93.1 | | % | 70-130 | 1 | 08/03/09 22:11 | E_S1 | 5146047 |

**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:** 07/28/2009 9:25 **SPL Sample ID:** 09071529-05

**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 | 18 | | | 0.5 | 10 | 08/05/09 10:48 | NW | 5146207 |
| Surr: n-Pentacosane | 148 | | % | 20-150 | 10 | 08/05/09 10:48 | NW | 5146207 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 0.34 | | | 0.1 | 1 | 08/01/09 4:27 | FAK | 5138779 |
| Surr: 1,4-Difluorobenzene | 92.1 | | % | 60-155 | 1 | 08/01/09 4:27 | FAK | 5138779 |
| Surr: 4-Bromofluorobenzene | 118 | | % | 50-158 | 1 | 08/01/09 4:27 | FAK | 5138779 |
| **ION CHROMATOGRAPHY** | | | | | **MCL** | **E300.0** | **Units: mg/L** | |
| Chloride | 97.9 | | | 5 | 10 | 08/03/09 23:55 | BDG | 5141495 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | 1.5 | | | 1 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |
| Toluene | ND | | | 1 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |
| Ethylbenzene | ND | | | 1 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |
| m,p-Xylene | 1.4 | | | 1 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |
| o-Xylene | ND | | | 1 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |
| Xylenes,Total | 1.4 | | | 1 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |
| Surr: 1,4-Difluorobenzene | 99.0 | | % | 70-130 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |
| Surr: 4-Bromofluorobenzene | 93.9 | | % | 70-130 | 1 | 08/01/09 3:00 | E_S1 | 5140640 |

**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:** 07/28/2009 9:44 **SPL Sample ID:** 09071529-06

**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 | 6.2 | | | 0.1 | 2 | 08/05/09 16:06 | NW | 5146213 |
| Surr: n-Pentacosane | 110 | | % | 20-150 | 2 | 08/05/09 16:06 | NW | 5146213 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | MCL | SW8015B | Units: mg/L | | |
| Gasoline Range Organics | 0.13 | | | 0.1 | 1 | 08/01/09 4:56 | FAK | 5138780 |
| Surr: 1,4-Difluorobenzene | 92.0 | | % | 60-155 | 1 | 08/01/09 4:56 | FAK | 5138780 |
| Surr: 4-Bromofluorobenzene | 106 | | % | 50-158 | 1 | 08/01/09 4:56 | FAK | 5138780 |
| **ION CHROMATOGRAPHY** | | | | MCL | E300.0 | Units: mg/L | | |
| Chloride | 74.7 | | | 5 | 10 | 08/04/09 0:12 | BDG | 5141496 |
| **PURGEABLE AROMATICS** | | | | MCL | SW8021B | Units: ug/L | | |
| Benzene | ND | | | 1 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |
| Toluene | ND | | | 1 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |
| Ethylbenzene | ND | | | 1 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |
| m,p-Xylene | ND | | | 1 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |
| o-Xylene | ND | | | 1 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |
| Xylenes,Total | ND | | | 1 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |
| Surr: 1,4-Difluorobenzene | 99.0 | | % | 70-130 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |
| Surr: 4-Bromofluorobenzene | 93.0 | | % | 70-130 | 1 | 08/01/09 3:32 | E_S1 | 5140641 |

**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:** DUP-01 **Collected:** 07/28/2009 0:00 **SPL Sample ID:** 09071529-07

**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 | 0.24 | | | 0.05 | 1 | 08/05/09 6:07 | NW | 5146202 |
| Surr: n-Pentacosane | 136 | | % | 20-150 | 1 | 08/05/09 6:07 | NW | 5146202 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | **MCL** | **SW8015B** | **Units: mg/L** | | |
| Gasoline Range Organics | ND | | | 0.1 | 1 | 07/31/09 0:57 | CLJ | 5137523 |
| Surr: 1,4-Difluorobenzene | 92.3 | | % | 60-155 | 1 | 07/31/09 0:57 | CLJ | 5137523 |
| Surr: 4-Bromofluorobenzene | 106 | | % | 50-158 | 1 | 07/31/09 0:57 | CLJ | 5137523 |
| **ION CHROMATOGRAPHY** | | | | **MCL** | **E300.0** | **Units: mg/L** | | |
| Chloride | 114 | | | 5 | 10 | 08/04/09 0:30 | BDG | 5141498 |
| **PURGEABLE AROMATICS** | | | | **MCL** | **SW8021B** | **Units: ug/L** | | |
| Benzene | ND | | | 1 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |
| Toluene | ND | | | 1 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |
| Ethylbenzene | ND | | | 1 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |
| m,p-Xylene | ND | | | 1 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |
| o-Xylene | ND | | | 1 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |
| Xylenes,Total | ND | | | 1 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |
| Surr: 1,4-Difluorobenzene | 97.2 | | % | 70-130 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |
| Surr: 4-Bromofluorobenzene | 93.7 | | % | 70-130 | 1 | 08/01/09 1:56 | E_S1 | 5140638 |

**Qualifiers:**

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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:** 07/28/2009 0:00 **SPL Sample ID:** 09071529-08

**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 | 07/30/09 21:38 | CLJ | 5137519 |
| Surr: 1,4-Difluorobenzene | 95.0 | | % | 60-155 | 1 | 07/30/09 21:38 | CLJ | 5137519 |
| Surr: 4-Bromofluorobenzene | 105 | | % | 50-158 | 1 | 07/30/09 21:38 | CLJ | 5137519 |
| **PURGEABLE AROMATICS** | | | | MCL | SW8021B | Units: ug/L | | |
| Benzene | ND | | | 1 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |
| Toluene | ND | | | 1 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |
| Ethylbenzene | ND | | | 1 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |
| m,p-Xylene | ND | | | 1 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |
| o-Xylene | ND | | | 1 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |
| Xylenes,Total | ND | | | 1 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |
| Surr: 1,4-Difluorobenzene | 96.7 | | % | 70-130 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |
| Surr: 4-Bromofluorobenzene | 93.5 | | % | 70-130 | 1 | 07/31/09 23:48 | E_S1 | 5140634 |

**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*

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

# Quality Control Report

## Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Diesel Range Organics
**Method:** SW8015B
**WorkOrder:** 09071529
**Lab Batch ID:** 92499

### Method Blank

RunID: HP_Z_090805A-5146197 Units: mg/L
Analysis Date: 08/05/2009 3:29 Analyst: NW
Preparation Date: 07/31/2009 9:53 Prep By: N_M Method SW3510C

| Analyte | Result | Rep Limit |
|---|---|---|
| Diesel Range Organics | ND | 0.050 |
| Surr: n-Pentacosane | 135.4 | 20-150 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071529-01C | SVE-1 |
| 09071529-02C | IW-2 |
| 09071529-03C | IW-3 |
| 09071529-04C | IW-4 |
| 09071529-05C | IW-5 |
| 09071529-06C | IW-7 |
| 09071529-07C | DUP-01 |

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

RunID: HP_Z_090805A-5146198 Units: mg/L
Analysis Date: 08/05/2009 4:01 Analyst: NW
Preparation Date: 07/31/2009 9:53 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 | 2.94 | 147 | 2.00 | 2.86 | 143 | 2.6 | 43 | 21 | 175 |
| Surr: n-Pentacosane | 0.0500 | 0.0726 | 145 | 0.0500 | 0.0679 | 136 | 6.7 | 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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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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HOUSTON LABORATORY
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# Quality Control Report

## Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B

**WorkOrder:** 09071529
**Lab Batch ID:** R279684

### Method Blank

RunID: HP_P_090730B-5137565 Units: mg/L
Analysis Date: 07/30/2009 16:00 Analyst: CLJ

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 94.9 | 60-155 |
| Surr: 4-Bromofluorobenzene | 108.2 | 50-158 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071529-01A | SVE-1 |
| 09071529-02A | IW-2 |
| 09071529-03A | IW-3 |
| 09071529-07A | DUP-01 |
| 09071529-08A | Trip Blank |

### Laboratory Control Sample (LCS)

RunID: HP_P_090730B-5137516 Units: mg/L
Analysis Date: 07/30/2009 19:44 Analyst: CLJ

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 2.00 | 2.11 | 105 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.102 | 102 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.113 | 113 | 50 | 158 |

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

Sample Spiked: 09071281-04
RunID: HP_P_090730B-5137535 Units: mg/L
Analysis Date: 07/31/2009 10:38 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 | 2 | 2.14 | 107 | 2 | 2.21 | 110 | 3.07 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 0.1 | 0.101 | 101 | 0.1 | 0.101 | 101 | 0.495 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 0.1 | 0.113 | 113 | 0.1 | 0.113 | 113 | 0.354 | 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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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.

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

# Quality Control Report

## Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B
**WorkOrder:** 09071529
**Lab Batch ID:** R279749

### Method Blank

RunID: HP_P_090731A-5138767 Units: mg/L
Analysis Date: 07/31/2009 12:33 Analyst: FAK

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071529-05A | IW-5 |
| 09071529-06A | IW-7 |

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 92.4 | 60-155 |
| Surr: 4-Bromofluorobenzene | 103.2 | 50-158 |

### Laboratory Control Sample (LCS)

RunID: HP_P_090731A-5138769 Units: mg/L
Analysis Date: 07/31/2009 18:21 Analyst: FAK

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 1.00 | 0.954 | 95.4 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.0936 | 93.6 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.107 | 107 | 50 | 158 |

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

Sample Spiked: 09071513-01
RunID: HP_P_090731A-5138773 Units: mg/L
Analysis Date: 07/31/2009 22:19 Analyst: FAK

| 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 | 1.06 | 103 | 1 | 0.974 | 95.4 | 7.94 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 0.1 | 0.0938 | 93.8 | 0.1 | 0.0964 | 96.4 | 2.73 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 0.1 | 0.107 | 107 | 0.1 | 0.107 | 107 | 0.373 | 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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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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(713) 660-0901

## Quality Control Report

### Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 09071529
**Lab Batch ID:** R279882

**Method Blank**

RunID: HP_U_090731B-5140630 Units: ug/L
Analysis Date: 07/31/2009 16:44 Analyst: E_S1

| 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 | 98.3 | 70-130 |
| Surr: 4-Bromofluorobenzene | 92.1 | 70-130 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071529-01A | SVE-1 |
| 09071529-02A | IW-2 |
| 09071529-03A | IW-3 |
| 09071529-05A | IW-5 |
| 09071529-06A | IW-7 |
| 09071529-07A | DUP-01 |
| 09071529-08A | Trip Blank |

**Laboratory Control Sample (LCS)**

RunID: HP_U_090731B-5140629 Units: ug/L
Analysis Date: 07/31/2009 15:29 Analyst: E_S1

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Benzene | 20.0 | 20.0 | 99.8 | 70 | 130 |
| Ethylbenzene | 20.0 | 20.7 | 103 | 70 | 130 |
| Toluene | 20.0 | 19.8 | 98.8 | 70 | 130 |
| m,p-Xylene | 40.0 | 42.4 | 106 | 70 | 130 |
| o-Xylene | 20.0 | 19.9 | 99.6 | 70 | 130 |
| Xylenes,Total | 60.0 | 62.3 | 104 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 98.2 | 98.2 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 93.3 | 93.3 | 70 | 130 |

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

Sample Spiked: 09071338-02
RunID: HP_U_090731B-5140645 Units: ug/L
Analysis Date: 08/01/2009 7:14 Analyst: E_S1

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

HOUSTON LABORATORY
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HOUSTON, TX 77054
(713) 660-0901

## Quality Control Report

### Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Purgeable Aromatics **WorkOrder:** 09071529
**Method:** SW8021B **Lab Batch ID:** R279882

| 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 | 4810 | 10000 | 14400 | 96.3 | 10000 | 14300 | 94.4 | 1.27 | 31 | 66 | 141 |
| Ethylbenzene | 3660 | 10000 | 13800 | 101 | 10000 | 13600 | 99.7 | 0.892 | 28 | 52 | 136 |
| Toluene | 16700 | 10000 | 26100 | 94.0 | 10000 | 26100 | 93.5 | 0.187 | 25 | 61 | 131 |
| m,p-Xylene | 11400 | 20000 | 31900 | 103 | 20000 | 31400 | 100 | 1.49 | 36 | 60 | 130 |
| o-Xylene | 2850 | 10000 | 12700 | 99.0 | 10000 | 12700 | 98.3 | 0.517 | 30 | 64 | 130 |
| Xylenes,Total | 14200 | 30000 | 44600 | 101 | 30000 | 44100 | 99.6 | 1.21 | 36 | 60 | 130 |
| Surr: 1,4-Difluorobenzene | ND | 50000 | 49500 | 99.1 | 50000 | 49100 | 98.1 | 0.922 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 50000 | 47400 | 94.8 | 50000 | 47400 | 94.8 | 0.0309 | 30 | 70 | 130 |

**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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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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HOUSTON LABORATORY
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HOUSTON, TX 77054
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# Quality Control Report

## Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 09071529
**Lab Batch ID:** R280154

### Method Blank

RunID: HP_U_090803A-5146037 Units: ug/L
Analysis Date: 08/03/2009 13:23 Analyst: E_S1

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071529-04A | 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 | 97.6 | 70-130 |
| Surr: 4-Bromofluorobenzene | 92.6 | 70-130 |

### Laboratory Control Sample (LCS)

RunID: HP_U_090803A-5146036 Units: ug/L
Analysis Date: 08/03/2009 12:19 Analyst: E_S1

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Benzene | 20.0 | 19.8 | 98.8 | 70 | 130 |
| Ethylbenzene | 20.0 | 20.5 | 103 | 70 | 130 |
| Toluene | 20.0 | 20.1 | 100 | 70 | 130 |
| m,p-Xylene | 40.0 | 42.1 | 105 | 70 | 130 |
| o-Xylene | 20.0 | 19.9 | 99.4 | 70 | 130 |
| Xylenes,Total | 60.0 | 62.0 | 103 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 96.9 | 96.9 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 94.1 | 94.1 | 70 | 130 |

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

Sample Spiked: 09071601-21
RunID: HP_U_090803A-5146048 Units: ug/L
Analysis Date: 08/03/2009 23:16 Analyst: E_S1

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

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

## Quality Control Report

### Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 09071529
**Lab Batch ID:** R280154

| 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 | 15000 | 1000 | 15300 | N/C | 1000 | 15000 | N/C | N/C | 31 | 66 | 141 |
| Ethylbenzene | 639 | 1000 | 1590 | 94.7 | 1000 | 1550 | 91.5 | 2.04 | 28 | 52 | 136 |
| Toluene | 2050 | 1000 | 2860 | 81.5 | 1000 | 2880 | 83.2 | 0.587 | 25 | 61 | 131 |
| m,p-Xylene | 1090 | 2000 | 3070 | 99.1 | 2000 | 3020 | 96.4 | 1.75 | 36 | 60 | 130 |
| o-Xylene | 439 | 1000 | 1380 | 93.8 | 1000 | 1350 | 90.8 | 2.23 | 30 | 64 | 130 |
| Xylenes,Total | 1530 | 3000 | 4450 | 97.3 | 3000 | 4370 | 94.5 | 1.90 | 36 | 60 | 130 |
| Surr: 1,4-Difluorobenzene | ND | 5000 | 4950 | 98.9 | 5000 | 4810 | 96.2 | 2.76 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 5000 | 4790 | 95.8 | 5000 | 4780 | 95.6 | 0.232 | 30 | 70 | 130 |

**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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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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HOUSTON, TX 77054
(713) 660-0901

# Quality Control Report

## Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B
**WorkOrder:** 09071529
**Lab Batch ID:** R280159

### Method Blank

RunID: HP_P_090803B-5146132 Units: mg/L
Analysis Date: 08/03/2009 10:25 Analyst: E_S1

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071529-04A | IW-4 |

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 92.0 | 60-155 |
| Surr: 4-Bromofluorobenzene | 103.2 | 50-158 |

### Laboratory Control Sample (LCS)

RunID: HP_P_090803B-5146131 Units: mg/L
Analysis Date: 08/03/2009 9:29 Analyst: E_S1

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 1.00 | 0.929 | 92.9 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.0955 | 95.5 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.107 | 107 | 50 | 158 |

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

Sample Spiked: 09071601-18
RunID: HP_P_090803B-5146136 Units: mg/L
Analysis Date: 08/03/2009 17:25 Analyst: E_S1

| 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 | 0.118 | 1 | 0.807 | 68.9 | 1 | 0.972 | 85.4 | 18.6 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 0.1 | 0.0946 | 94.6 | 0.1 | 0.0992 | 99.2 | 4.75 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 0.1 | 0.11 | 110 | 0.1 | 0.112 | 112 | 1.98 | 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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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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HOUSTON LABORATORY
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HOUSTON, TX 77054
(713) 660-0901

# Quality Control Report

## Conoco Phillips

**COP /1159640005 NM1-1**

**Analysis:** Ion Chromatography **WorkOrder:** 09071529
**Method:** E300.0 **Lab Batch ID:** R279831A

### Method Blank

RunID: IC1_090803A-5139841 Units: mg/L
Analysis Date: 08/03/2009 13:24 Analyst: BDG

| Analyte | Result | Rep Limit |
|---|---|---|
| Chloride | ND | 0.50 |

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071529-01D | SVE-1 |
| 09071529-02D | IW-2 |
| 09071529-03D | IW-3 |
| 09071529-04D | IW-4 |
| 09071529-05D | IW-5 |
| 09071529-06D | IW-7 |
| 09071529-07D | DUP-01 |

### Laboratory Control Sample (LCS)

RunID: IC1_090803A-5139842 Units: mg/L
Analysis Date: 08/03/2009 13:42 Analyst: BDG

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Chloride | 10.00 | 9.220 | 92.20 | 85 | 115 |

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

Sample Spiked: 09071529-01
RunID: IC1_090803A-5141485 Units: mg/L
Analysis Date: 08/03/2009 21:51 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 | 112.7 | 100 | 234.9 | 122.2 * | 100 | 227.4 | 114.7 | 3.252 | 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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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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8/10/2009 1:23:45 PM

# *Sample Receipt Checklist*

# *And*

# *Chain of Custody*

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

# Sample Receipt Checklist

| | | | |
|---|---|---|---|
| Workorder: | 09071529 | Received By: | BF |
| *Date and Time Received:* | *7/29/2009 9:15:00 AM* | *Carrier name:* | *FedEx* |
| Temperature: | 4.2/3.5°C | Chilled by: | Water Ice |

| | | | | |
|---|---|---|---|---|
| 1. | ***Shipping container/cooler in good condition?*** | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | **Custody seals intact on shippping 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:** _____

**SPL, Inc.**
Analysis Request & Chain of Custody Record

SPL Workorder No. 326433
0907/1529
page 1 of 3

Client Name: TETRA TECH, INC
Address: 1910 N. BIG SPRING ST.
City MIDLAND State TX Zip 79705-4410
Phone/Fax: (432) 661-3852
Client Contact: GREG POPE Email: GREG.POPE@TETRATECH.COM
Project Name/No.: NM I-I ARW CONOCO-PHILLIPS / 115964 0005
Site Name: NM I-I
Site Location: HOBBS, NM
Invoice To: CONOCO-PHILLIPS Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix | bottle | size | pres. | Number of Containers | Requested Analysis: TPH-GRO 8015 | BTEX 8021 | TPH-DRO 8015 | Chloride 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVE-1 | 7/28/09 | 0811 | | X | W | V | 40 | 1 | 3 | X | | | |
| | | | | | | V | 40 | 1 | 3 | | X | | |
| | | | | | | V | 60ml | 1 | 2 | | | X | |
| | | | | | | P | 1 | NONE | 1 | | | | X |
| IW-2 | 7/28/09 | 0838 | | X | W | V | 40 | 1 | 3 | X | | | |
| | | | | | | V | 40 | 1 | 3 | | X | | |
| | | | | | | V | 60ml | 1 | 2 | | | X | |
| | | | | | | P | 1 | NONE | 1 | | | | X |
| IW-3 | 7/28/09 | 0855 | | X | W | V | 40 | 1 | 3 | X | | | |
| | | | | | | V | 40 | 1 | 3 | | X | | |

Client/Consultant Remarks: TEMP BLANK I PER COOLER
Laboratory remarks:
Intact? Y N
Ice? Y N
Temp: 4.2/3.5

**Requested TAT**
- 1 Business Day
- 2 Business Days
- 3 Business Days
- Other
- Contract
- Standard

Rush TAT requires prior notice

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):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: | 7/28/09 | 1115 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 7/29/09 | time 915 | 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

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 326434
0907529 page 2 of 3

Client Name: TETRA TECH, INC.
Address: 1910 N. BIG SPRING ST.
City MIDLAND State TX Zip REQUIRED
Phone/Fax: (432) 661-3852
Client Contact: GREG POPE Email: GREG.POPE@TETRATECH.COM
Project Name/No.: HM-1 ABDM CONOCO-PHILLIPS / 115964 0005
Site Name: COPC NM1-1
Site Location: HOBBS, NM
Invoice To: CONOCO-PHILLIPS Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

| SAMPLE ID | DATE | TIME | comp | grab | matrix | bottle | size | pres. | Number of Containers | TPH-GRO 8015 | BTEX 8021 | TPH DRO 8015 | Chloride 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-3 | 7/28/09 | 0855 | | X | W | V | 60ml | 1 | 2 | | | X | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | P | 1 | NONE | 1 | | | | X |
| IW-4 | 7/28/09 | 0911 | | X | W | V | 40 | 1 | 3 | X | | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 40 | 1 | 3 | | X | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 60ml | 1 | 2 | | | X | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | P | 1 | NONE | 1 | | | | X |
| IW-5 | 7/28/09 | 0925 | | X | W | V | 40 | 1 | 3 | X | | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 40 | 1 | 3 | | X | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 60ml | 1 | 2 | | | X | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | P | 1 | NONE | 1 | | | | X |

Client/Consultant Remarks: Temp Blank 1 per Cooler
Laboratory remarks:
Intact? Y N
Ice? Y N
Temp: 4.2 / 3-5

Requested TAT
- 1 Business Day
- 2 Business Days
- 3 Business Days
- Other
- Contract
- Standard

Rush TAT requires prior notice

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):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: | 7/28/09 | 1115 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 7/29/09 | time 915 | 6. Received by Laboratory: |

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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

**SPL, Inc.**
Analysis Request & Chain of Custody Record

SPL Workorder No. 326435

0907529 page 3 of 3

Client Name: TETRA TECH INC.
Address: 1910 N. BIG SPRINGS ST.
City MIDLAND State TX Zip REQUIRED
Phone/Fax: (432) 661-3852
Client Contact: GREG POPE Email: GREG.POPE@TETRATECH.COM
Project Name/No.: CONOCO-PHILLIPS / 115964 0005
Site Name: NM 1-1
Site Location: HOBBS, NM
Invoice To: CONOCO-PHILLIPS Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: TPH-GRO 8015 | BTEX 8021 | TPH-DRO 8015 | Chloride 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-7 | 7/28/09 | 0944 | | X | W | V | 40 | 1 | 3 | X | | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 40 | 1 | 3 | | X | | |
| | | | | | | V | 60ml | 1 | 2 | | | X | |
| | | | | | | P | 1 | NONE | 1 | | | | X |
| DUP-01 | 7/28/09 | 0000 | | X | W | V | 40 | 1 | 3 | X | | | |
| | | | | | | V | 40 | 1 | 3 | | X | | |
| | | | | | | V | 60ml | 1 | 2 | | | X | |
| | | | | | | P | 1 | NONE | 1 | | | | X |
| TRIP BLANK | LAB Supply | LAB Supply | | | W | V | 40 | 1 | 1 | X | X | | |

Client/Consultant Remarks: TEMP BLANK I PER COOLER

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 4.2 / 3.5

**Requested TAT**
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☑ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

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):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: | 7/28/09 | 1115 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | 7/29/09 | 915 | 6. Received by Laboratory: |

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

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

## Conoco Phillips

**Certificate of Analysis Number:**

**09071600**

| Report To: | | Project Name: | COP NM 1-1 #1159640005 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | 4511063168 |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 8/7/2009 |

This Report Contains A Total Of 11 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

8/7/2009

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:

## 09071600

| Report To: | | Project Name: | COP NM 1-1 #1159640005 |
|---|---|---|---|
| Tetra Tech | | Site: | Hobbs, NM |
| Greg Pope | | Site Address: | |
| 1910 N. Big Spring St | | | |
| Midland | | PO Number: | 4511063168 |
| TX | | State: | New Mexico |
| 79705- | | State Cert. No.: | |
| ph: (432) 682-4559 | fax: | Date Reported: | 8/7/2009 |

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSES AND EXCEPTIONS:

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.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 92499 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.

III. GENERAL REPORTING COMMENTS:

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.

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.



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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.



8/10/2009

Erica Cardenas
Project Manager

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:

## 09071600

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

Midland
TX
79705-
ph: (432) 682-4559 fax: (432) 686-8085

**Fax To:**

**Project Name:** COP NM 1-1 #1159640005
**Site:** Hobbs, NM
**Site Address:**

**PO Number:** 4511063168
**State:** New Mexico
**State Cert. No.:**
**Date Reported:** 8/7/2009

| Client Sample ID | Lab Sample ID | Matrix | Date Collected | Date Received | COC ID | HOLD |
|---|---|---|---|---|---|---|
| MW-13 | 09071600-01 | Water | 7/29/2009 1:28:00 PM | 7/30/2009 9:30:00 AM | 326433 | ☐ |

Erica Cardenas
Project Manager

8/7/2009
Date

Kesavalu M. Bagawandoss Ph.D., J.D.
Laboratory Director

Ted Yen
Quality Assurance Officer

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

**Client Sample ID:** MW-13 **Collected:** 07/29/2009 13:28 **SPL Sample ID:** 09071600-01

**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 | 1.7 | | | 0.05 | 1 | 08/05/09 6:38 | NW | 5146203 |
| Surr: n-Pentacosane | 125 | | % | 20-150 | 1 | 08/05/09 6:38 | NW | 5146203 |

| Prep Method | Prep Date | Prep Initials | Prep Factor |
|---|---|---|---|
| SW3510C | 07/31/2009 9:53 | N_M | 1.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS** | | | | | **MCL** | **SW8015B** | **Units: mg/L** | |
| Gasoline Range Organics | 5.8 | | | 2.5 | 25 | 08/01/09 17:46 | CLJ | 5138736 |
| Surr: 1,4-Difluorobenzene | 92.4 | | % | 60-155 | 25 | 08/01/09 17:46 | CLJ | 5138736 |
| Surr: 4-Bromofluorobenzene | 106 | | % | 50-158 | 25 | 08/01/09 17:46 | CLJ | 5138736 |
| **PURGEABLE AROMATICS** | | | | | **MCL** | **SW8021B** | **Units: ug/L** | |
| Benzene | 2100 | | | 25 | 25 | 08/01/09 17:46 | E_S1 | 5140880 |
| Toluene | ND | | | 1 | 1 | 08/05/09 8:24 | E_S1 | 5147527 |
| Ethylbenzene | 2 | | | 1 | 1 | 08/05/09 8:24 | E_S1 | 5147527 |
| m,p-Xylene | ND | | | 1 | 1 | 08/05/09 8:24 | E_S1 | 5147527 |
| o-Xylene | ND | | | 1 | 1 | 08/05/09 8:24 | E_S1 | 5147527 |
| Xylenes,Total | ND | | | 1 | 1 | 08/05/09 8:24 | E_S1 | 5147527 |
| Surr: 1,4-Difluorobenzene | 99.2 | | % | 70-130 | 25 | 08/01/09 17:46 | E_S1 | 5140880 |
| Surr: 1,4-Difluorobenzene | 108 | | % | 70-130 | 1 | 08/05/09 8:24 | E_S1 | 5147527 |
| Surr: 4-Bromofluorobenzene | 112 | | % | 70-130 | 25 | 08/01/09 17:46 | E_S1 | 5140880 |
| Surr: 4-Bromofluorobenzene | 95.0 | | % | 70-130 | 1 | 08/05/09 8:24 | E_S1 | 5147527 |

**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*

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

# Quality Control Report

## Conoco Phillips

**COP NM 1-1 #1159640005**

**Analysis:** Diesel Range Organics
**Method:** SW8015B
**WorkOrder:** 09071600
**Lab Batch ID:** 92499

**Method Blank**

RunID: HP_Z_090805A-5146197 Units: mg/L
Analysis Date: 08/05/2009 3:29 Analyst: NW
Preparation Date: 07/31/2009 9:53 Prep By: N_M Method SW3510C

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071600-01C | MW-13 |

| Analyte | Result | Rep Limit |
|---|---|---|
| Diesel Range Organics | ND | 0.050 |
| Surr: n-Pentacosane | 135.4 | 20-150 |

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

RunID: HP_Z_090805A-5146198 Units: mg/L
Analysis Date: 08/05/2009 4:01 Analyst: NW
Preparation Date: 07/31/2009 9:53 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 | 2.94 | 147 | 2.00 | 2.86 | 143 | 2.6 | 43 | 21 | 175 |
| Surr: n-Pentacosane | 0.0500 | 0.0726 | 145 | 0.0500 | 0.0679 | 136 | 6.7 | 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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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.

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

# Quality Control Report

## Conoco Phillips

**COP NM 1-1 #1159640005**

**Analysis:** Gasoline Range Organics
**Method:** SW8015B
**WorkOrder:** 09071600
**Lab Batch ID:** R279748

### Method Blank

RunID: HP_P_090801A-5138759 Units: mg/L
Analysis Date: 08/01/2009 13:03 Analyst: CLJ

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071600-01A | MW-13 |

| Analyte | Result | Rep Limit |
|---|---|---|
| Gasoline Range Organics | ND | 0.10 |
| Surr: 1,4-Difluorobenzene | 92.1 | 60-155 |
| Surr: 4-Bromofluorobenzene | 104.0 | 50-158 |

### Laboratory Control Sample (LCS)

RunID: HP_P_090801A-5138727 Units: mg/L
Analysis Date: 08/01/2009 12:06 Analyst: CLJ

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Gasoline Range Organics | 1.00 | 0.808 | 80.8 | 42 | 136 |
| Surr: 1,4-Difluorobenzene | 0.100 | 0.0946 | 94.6 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | 0.100 | 0.105 | 105 | 50 | 158 |

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

Sample Spiked: 09071338-05
RunID: HP_P_090801A-5138731 Units: mg/L
Analysis Date: 08/01/2009 14:56 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 | 14.0 | 50 | 60.9 | 93.9 | 50 | 57.0 | 86.0 | 6.65 | 36 | 22 | 174 |
| Surr: 1,4-Difluorobenzene | ND | 5 | 4.82 | 96.4 | 5 | 4.81 | 96.1 | 0.326 | 30 | 60 | 155 |
| Surr: 4-Bromofluorobenzene | ND | 5 | 5.48 | 110 | 5 | 5.46 | 109 | 0.385 | 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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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.

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

# Quality Control Report

## Conoco Phillips

**COP NM 1-1 #1159640005**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 09071600
**Lab Batch ID:** R279891

### Method Blank

RunID: HP_P_090801B-5140874 Units: ug/L
Analysis Date: 08/01/2009 13:03 Analyst: E_S1

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071600-01A | MW-13 |

| Analyte | Result | Rep Limit |
|---|---|---|
| Benzene | ND | 1.0 |
| Surr: 1,4-Difluorobenzene | 96.4 | 70-130 |
| Surr: 4-Bromofluorobenzene | 113.2 | 70-130 |

### Laboratory Control Sample (LCS)

RunID: HP_P_090801B-5140873 Units: ug/L
Analysis Date: 08/01/2009 11:38 Analyst: E_S1

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Benzene | 20.0 | 18.6 | 93.1 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 96.1 | 96.1 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 113 | 113 | 70 | 130 |

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

Sample Spiked: 09071338-05
RunID: HP_P_090801B-5140876 Units: ug/L
Analysis Date: 08/01/2009 13:59 Analyst: E_S1

| 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 | 1680 | 2500 | 4000 | 92.6 | 2500 | 3820 | 85.6 | 4.49 | 31 | 66 | 141 |
| Surr: 1,4-Difluorobenzene | ND | 5000 | 4970 | 99.3 | 5000 | 4950 | 99.1 | 0.243 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 5000 | 5670 | 113 | 5000 | 5660 | 113 | 0.267 | 30 | 70 | 130 |

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

8/7/2009 4:22:39 PM

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

# Quality Control Report

## Conoco Phillips

**COP NM 1-1 #1159640005**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 09071600
**Lab Batch ID:** R280244

### Method Blank

RunID: HP_U_090805B-5147526 Units: ug/L
Analysis Date: 08/05/2009 7:52 Analyst: E_S1

**Samples in Analytical Batch:**

| Lab Sample ID | Client Sample ID |
|---|---|
| 09071600-01A | MW-13 |

| 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 | 99.2 | 70-130 |
| Surr: 4-Bromofluorobenzene | 94.1 | 70-130 |

### Laboratory Control Sample (LCS)

RunID: HP_U_090805B-5147525 Units: ug/L
Analysis Date: 08/05/2009 6:48 Analyst: E_S1

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|
| Ethylbenzene | 20.0 | 20.8 | 104 | 70 | 130 |
| Toluene | 20.0 | 19.9 | 99.5 | 70 | 130 |
| m,p-Xylene | 40.0 | 42.7 | 107 | 70 | 130 |
| o-Xylene | 20.0 | 19.9 | 99.6 | 70 | 130 |
| Xylenes,Total | 60.0 | 62.6 | 104 | 70 | 130 |
| Surr: 1,4-Difluorobenzene | 100 | 97.6 | 97.6 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | 100 | 95.4 | 95.4 | 70 | 130 |

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

Sample Spiked: 09071601-20
RunID: HP_U_090805B-5147529 Units: ug/L
Analysis Date: 08/05/2009 11:03 Analyst: E_S1

| 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 | 178 | 20 | 180 | N/C | 20 | 180 | N/C | N/C | 28 | 52 | 136 |

**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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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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HOUSTON, TX 77054
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## Quality Control Report

**Conoco Phillips**

**COP NM 1-1 #1159640005**

**Analysis:** Purgeable Aromatics
**Method:** SW8021B
**WorkOrder:** 09071600
**Lab Batch ID:** R280244

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

Sample Spiked: 09071601-20
RunID: HP_U_090805B-5147529 Units: ug/L
Analysis Date: 08/05/2009 11:03 Analyst: E_S1

| 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 | 213 | 20 | 211 | N/C | 20 | 211 | N/C | N/C | 25 | 61 | 131 |
| m,p-Xylene | 168 | 40 | 195 | N/C | 40 | 194 | N/C | N/C | 36 | 60 | 130 |
| o-Xylene | 76.9 | 20 | 92.3 | 77.3 | 20 | 92.0 | 75.5 | 0.391 | 30 | 64 | 130 |
| Xylenes,Total | 245.1 | 60 | 287.3 | N/C | 60 | 286.0 | N/C | N/C | 36 | 60 | 130 |
| Surr: 1,4-Difluorobenzene | ND | 100 | 102 | 102 | 100 | 96.9 | 96.9 | 4.83 | 30 | 70 | 130 |
| Surr: 4-Bromofluorobenzene | ND | 100 | 103 | 103 | 100 | 102 | 102 | 0.726 | 30 | 70 | 130 |

**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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
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: | 09071600 | Received By: | BF |
| Date and Time Received: | 7/30/2009 9:30:00 AM | Carrier name: | FedEx |
| Temperature: | 0.4°C | Chilled by: | Water Ice |

| | | | | |
|---|---|---|---|---|
| 1. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | Custody seals intact on shippping 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: _____

# SPL, Inc.

## Analysis Request & Chain of Custody Record

SPL Workorder No. 316792

0907160 0

page 1 of 1

Client Name: TETRA TECH, INC.

Address: 1910 N. BIG SPRING ST. MIDLAND, TX 79705

Phone/Fax: (432) 682-4559

Client Contact: GREG POPE Email: GREG.POPE@TETRATECH.COM

Project Name/No.: CONOCO-PHILLIPS

Site Name: NM 1-1 / ## 115964 0005

Site Location: HOBBS, NM

Invoice To: CONOCO-PHILLIPS Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil SL=sludge X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: TPH GRO 8015 | BTEX 8021 | TPH DRO 8015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-13 | 7/29/09 | 1328 | | X | W | V | 40 | 1 | 3 | X | | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 40 | 1 | 3 | | X | |
| ↓ | ↓ | ↓ | | ↓ | ↓ | V | 60ml | 1 | 2 | | | X |
| ~~TRIP BLANK~~ TRIP BLANK-1 | ~~LAB~~ ARA Supply | ~~LAB~~ ARA Supply | | | ~~ARA~~ W | ~~ARA~~ V | ~~ARA 40~~ | ~~ARA~~ + | | | | |

Client/Consultant Remarks: TEMP BLANK IN COOLER

TripBlank-1

Laboratory remarks:

Intact? Y N

Ice? Y N

Temp: 0.4

### 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 ☐

Special Detection Limits (specify):

PM review (initial):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: | 7/29/09 | 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | 7/30/09 | 930 | 6. Received by Laboratory: |


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☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

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

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# Certificate of Analysis

May 19, 2009

**Workorder: H09040524**

Greg W. Pope, P.G.
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

**Project: Line NM1-1**

Project Number: COP - Line NM1-1

Site: Hobbs, NM

PO Number: 4511063168

NELAC Cert. No.: T104704205-08C-TX

This Report Contains A Total Of 60 Pages

Excluding Any Attachments

SPL Inc.
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# Case Narrative

May 19, 2009

**Workorder: H09040524**

Greg W. Pope, P.G.
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

**Project: Line NM1-1**

Project Number: COP - Line NM1-1

Site: Hobbs, NM

PO Number: 4511063168

NELAC Cert. No.: T104704205-08C-TX

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry " ).

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.

Your sample ID "IW-2" (SPL ID: H09040524002) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6020. The MSD recovery was outside of the advisable quality control limits for Zinc (Batch ID: DIGM/1168) due to matrix interference. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were outside quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: EXTO/1258 for the SIM Semivolatile Organics analysis by SW846 Method 8270C. 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: EXTO/1263 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.

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.

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## Case Narrative

May 19, 2009

**Workorder: H09040524**

Greg W. Pope, P.G.
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

**Project: Line NM1-1**

Project Number: COP - Line NM1-1

Site: Hobbs, NM

PO Number: 4511063168

NELAC Cert. No.: T104704205-08C-TX



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, Senior Project Manager

Enclosures

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## SAMPLE SUMMARY

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

| Lab ID | Sample ID | Matrix | COC ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|---|---|
| H09040524001 | SVE-1 | Water | | 4/21/2009 07:55 | 4/22/2009 10:00 |
| H09040524002 | IW-2 | Water | | 4/21/2009 08:23 | 4/22/2009 10:00 |
| H09040524003 | IW-3 | Water | | 4/21/2009 08:51 | 4/22/2009 10:00 |
| H09040524004 | IW-4 | Water | | 4/21/2009 09:25 | 4/22/2009 10:00 |
| H09040524005 | IW-5 | Water | | 4/21/2009 09:55 | 4/22/2009 10:00 |
| H09040524006 | IW-7 | Water | | 4/21/2009 10:17 | 4/22/2009 10:00 |
| H09040524007 | DUP#1 | Water | | 4/21/2009 00:00 | 4/22/2009 10:00 |
| H09040524008 | MW-13 | Water | | 4/21/2009 15:15 | 4/22/2009 10:00 |

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# ANALYTICAL RESULTS

Project Number: COP - Line NM1-1

Workorder: H09040524 : Line NM1-1 | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Lab ID: **H09040524001** | Date/Time Collected: 4/21/2009 07:55

Sample ID: **SVE-1**

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1067 EPA 300.0 on 05/05/2009 05:19 by BDG DF = 1
Batch: 1067 EPA 300.0 on 05/05/2009 08:03 by BDG DF = 10

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Batch Information Analysis |
|---|---|---|---|---|---|---|---|
| Chloride | 114 | | 5.00 | 10 | | | 1067 |
| Fluoride | 1.18 | | 0.500 | 1 | | | 1067 |

**WET CHEMISTRY**

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1142 SM 2540 C on 04/24/2009 19:00 by CFS

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Batch Information Analysis |
|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | 796 | | 10.0 | 1 | | | 1142 |

**Diesel Range Organics (DRO)**

Analysis Desc: SW-846 8015B DRO LVI

Preparation Batches:
Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:16 by N_M

Analytical Batches:
Batch: 1188 SW-846 8015B DRO LVI on 04/29/2009 23:33 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Batch Information Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | ND | | 0.050 | 1 | | 1263 | 1188 |
| n-Pentacosane (S) | 74.3 % | | 20-150 | 1 | | 1263 | 1188 |

**ICP DISSOLVED METALS**

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1166 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:
Batch: 1080 SW-846 6010B on 05/05/2009 20:12 by EBG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Batch Information Analysis |
|---|---|---|---|---|---|---|---|
| Boron | 0.272 | | 0.100 | 1 | | 1166 | 1080 |
| Iron | 0.0734 | | 0.0200 | 1 | | 1166 | 1080 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524001** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **SVE-1** Date/Time Collected: 4/21/2009 07:55

## VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 1271 SW-846 8021B on 04/25/2009 10:13 by WLV

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 1 | | | 1271 |
| Ethylbenzene | ND | | 1.0 | 1 | | | 1271 |
| Toluene | ND | | 1.0 | 1 | | | 1271 |
| m,p-Xylene | ND | | 1.0 | 1 | | | 1271 |
| o-Xylene | ND | | 1.0 | 1 | | | 1271 |
| Xylenes, Total | ND | | 1.0 | 1 | | | 1271 |
| 1,4-Difluorobenzene (S) | 98.3 % | | 70-130 | 1 | | | 1271 |
| 4-Bromofluorobenzene (S) | 98.4 % | | 70-130 | 1 | | | 1271 |
| Preservation pH | <2 | | | 1 | | | 1271 |

## PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1258 SW-846 3510C on 04/27/2009 13:07 by N_M
Analytical Batches:
Batch: 1082 SW-846 8270C SIM on 05/04/2009 21:08 by SBG

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Acenaphthylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)pyrene | ND | | 0.70 | 1 | | 1258 | 1082 |
| Benzo(b)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(g,h,i)perylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(k)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Chrysene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenz(a,h)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenzofuran | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluorene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Indeno(1,2,3-cd)pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| 1-Methylnaphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |
| 2-Methylnaphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Naphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524001** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 4/21/2009 07:55

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Nitrobenzene-d5 (S) | 70.5 % | | 10-165 | 1 | | 1258 | 1082 |
| 2-Fluorobiphenyl (S) | 68 % | | 10-123 | 1 | | 1258 | 1082 |
| Terphenyl-d14 (S) | 59 % | | 10-150 | 1 | | 1258 | 1082 |

**ICP/MS DISSOLVED METALS**

Analysis Desc: SW-846 6020A

Preparation Batches:

Batch: 1168 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:

Batch: 1101 SW-846 6020A on 05/01/2009 00:13 by S_C DF = 1.

Batch: 1119 SW-846 6020A on 05/16/2009 18:54 by S_C DF = 1.

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Aluminum | 0.0177 | | 0.0100 | 1 | | 1168 | 1119 |
| Arsenic | 0.0105 | | 0.00500 | 1 | | 1168 | 1101 |
| Barium | 0.114 | | 0.00500 | 1 | | 1168 | 1101 |
| Cadmium | ND | | 0.00500 | 1 | | 1168 | 1119 |
| Chromium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Cobalt | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Copper | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Lead | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Manganese | 0.00928 | | 0.00500 | 1 | | 1168 | 1101 |
| Molybdenum | ND | | 0.0100 | 1 | | 1168 | 1119 |
| Nickel | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Selenium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Silver | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Zinc | ND | | 0.0100 | 1 | | 1168 | 1101 |

**METALS**

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1056 SW-846 7470A on 05/04/2009 12:00 by F_S

Analytical Batches:

Batch: 1057 SW-846 7470A on 05/04/2009 15:04 by F_S

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524001** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **SVE-1** Date/Time Collected: 4/21/2009 07:55

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | | 1056 | 1057 |

**Gasoline Range Organics (GRO)**

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 1267 SW-846 8015B GRO Gas on 04/25/2009 10:13 by WLV

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.10 | 1 | | | 1267 |
| 1,4-Difluorobenzene (S) | 96.5 % | | 60-155 | 1 | | | 1267 |
| 4-Bromofluorobenzene (S) | 101 % | | 50-158 | 1 | | | 1267 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524002** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **IW-2** Date/Time Collected: 4/21/2009 08:23

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1067 EPA 300.0 on 05/05/2009 05:37 by BDG DF = 1.
Batch: 1067 EPA 300.0 on 05/05/2009 08:22 by BDG DF = 10.

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Chloride | 66.6 | | 5.00 | 10 | | | 1067 |
| Fluoride | 1.05 | | 0.500 | 1 | | | 1067 |

**WET CHEMISTRY**

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1142 SM 2540 C on 04/24/2009 19:00 by CFS

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | 578 | | 10.0 | 1 | | | 1142 |

**Diesel Range Organics (DRO)**

Analysis Desc: SW-846 8015B DRO LVI

Preparation Batches:
Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:17 by N_M
Analytical Batches:
Batch: 1188 SW-846 8015B DRO LVI on 04/30/2009 00:12 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | 0.85 | | 0.050 | 1 | | 1263 | 1188 |
| n-Pentacosane (S) | 89 % | | 20-150 | 1 | | 1263 | 1188 |

**ICP DISSOLVED METALS**

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1166 SW-846 3010A on 04/28/2009 16:00 by A_B
Analytical Batches:
Batch: 1080 SW-846 6010B on 05/05/2009 20:45 by EBG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Boron | 0.194 | | 0.100 | 1 | | 1166 | 1080 |
| Iron | 0.183 | | 0.0200 | 1 | | 1166 | 1080 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524002** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **IW-2** Date/Time Collected: 4/21/2009 08:23

## VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 1281 SW-846 8021B on 04/28/2009 16:34 by WLV

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 1 | | | 1281 |
| Ethylbenzene | ND | | 1.0 | 1 | | | 1281 |
| Toluene | ND | | 1.0 | 1 | | | 1281 |
| m,p-Xylene | ND | | 1.0 | 1 | | | 1281 |
| o-Xylene | ND | | 1.0 | 1 | | | 1281 |
| Xylenes, Total | ND | | 1.0 | 1 | | | 1281 |
| 1,4-Difluorobenzene (S) | 95.6 % | | 70-130 | 1 | | | 1281 |
| 4-Bromofluorobenzene (S) | 104 % | | 70-130 | 1 | | | 1281 |
| Preservation pH | <2 | | | 1 | | | 1281 |

## PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1258 SW-846 3510C on 04/27/2009 13:08 by N_M
Analytical Batches:
Batch: 1082 SW-846 8270C SIM on 05/05/2009 13:13 by SBG

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Acenaphthylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)pyrene | ND | | 0.70 | 1 | | 1258 | 1082 |
| Benzo(b)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(g,h,i)perylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(k)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Chrysene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenz(a,h)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenzofuran | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluorene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Indeno(1,2,3-cd)pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| 1-Methylnaphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |
| 2-Methylnaphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Naphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524002** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **IW-2** Date/Time Collected: 4/21/2009 08:23

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Nitrobenzene-d5 (S) | 55 % | | 10-165 | 1 | | 1258 | 1082 |
| 2-Fluorobiphenyl (S) | 53.5 % | | 10-123 | 1 | | 1258 | 1082 |
| Terphenyl-d14 (S) | 41 % | | 10-150 | 1 | | 1258 | 1082 |

**ICP/MS DISSOLVED METALS**

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1168 SW-846 3010A on 04/28/2009 16:00 by A_B
Analytical Batches:
Batch: 1101 SW-846 6020A on 04/30/2009 23:42 by S_C DF = 1
Batch: 1119 SW-846 6020A on 05/16/2009 17:59 by S_C DF = 1

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Aluminum | 0.0273 | | 0.0100 | 1 | | 1168 | 1119 |
| Arsenic | 0.00956 | | 0.00500 | 1 | | 1168 | 1101 |
| Barium | 0.110 | | 0.00500 | 1 | | 1168 | 1101 |
| Cadmium | ND | | 0.00500 | 1 | | 1168 | 1119 |
| Chromium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Cobalt | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Copper | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Lead | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Manganese | 0.00994 | | 0.00500 | 1 | | 1168 | 1101 |
| Molybdenum | 0.0150 | | 0.0100 | 1 | | 1168 | 1119 |
| Nickel | 0.0106 | | 0.00500 | 1 | | 1168 | 1101 |
| Selenium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Silver | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Zinc | 0.0152 | | 0.0100 | 1 | | 1168 | 1101 |

**METALS**

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1056 SW-846 7470A on 05/04/2009 12:00 by F_S
Analytical Batches:
Batch: 1057 SW-846 7470A on 05/04/2009 15:15 by F_S

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524002** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **IW-2** Date/Time Collected: 4/21/2009 08:23

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | | 1056 | 1057 |

**Gasoline Range Organics (GRO)**

Analysis Desc: SW-846 8015B GRO Gas — SW-846 8015B GRO Gas Analytical Batches:
Batch: 1267 SW-846 8015B GRO Gas on 04/25/2009 15:32 by WLV DF = 1
Batch: 1277 SW-846 8015B GRO Gas on 04/26/2009 16:28 by WLV DF = 1

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | 0.11 | | 0.10 | 1 | | | 1277 |
| 1,4-Difluorobenzene (S) | 96.5 % | | 60-155 | 1 | | | 1267 |
| 4-Bromofluorobenzene (S) | 107 % | | 50-158 | 1 | | | 1277 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 | Project Number: COP - Line NM1-1

Lab ID: **H09040524003** | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Sample ID: **IW-3** | Date/Time Collected: 4/21/2009 08:51

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1067 EPA 300.0 on 05/05/2009 05:56 by BDG DF = 1

Batch: 1067 EPA 300.0 on 05/05/2009 08:40 by BDG DF = 10

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Chloride | 80.8 | | 5.00 | 10 | | | 1067 |
| Fluoride | 0.804 | | 0.500 | 1 | | | 1067 |

**WET CHEMISTRY**

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1142 SM 2540 C on 04/24/2009 19:00 by CFS

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | 756 | | 40.0 | 4 | | | 1142 |

**Diesel Range Organics (DRO)**

Analysis Desc: SW-846 8015B DRO LVI

Preparation Batches:

Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:17 by N_M

Analytical Batches:

Batch: 1188 SW-846 8015B DRO LVI on 04/30/2009 00:51 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | 0.39 | | 0.050 | 1 | | 1263 | 1188 |
| n-Pentacosane (S) | 100 % | | 20-150 | 1 | | 1263 | 1188 |

**ICP DISSOLVED METALS**

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1166 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:

Batch: 1080 SW-846 6010B on 05/05/2009 20:49 by EBG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Boron | 0.205 | | 0.100 | 1 | | 1166 | 1080 |
| Iron | 0.160 | | 0.0200 | 1 | | 1166 | 1080 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 | Project Number: COP - Line NM1-1

Lab ID: **H09040524003** | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Sample ID: **IW-3** | Date/Time Collected: 4/21/2009 08:51

## VOLATILES

Analysis Desc: SW-846 8021B | Analytical Batches: SW-846 5030

Batch: 1281 SW-846 8021B on 04/28/2009 17:05 by WLV

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 1 | | | 1281 |
| Ethylbenzene | ND | | 1.0 | 1 | | | 1281 |
| Toluene | ND | | 1.0 | 1 | | | 1281 |
| m,p-Xylene | ND | | 1.0 | 1 | | | 1281 |
| o-Xylene | ND | | 1.0 | 1 | | | 1281 |
| Xylenes, Total | ND | | 1.0 | 1 | | | 1281 |
| 1,4-Difluorobenzene (S) | 93.4 % | | 70-130 | 1 | | | 1281 |
| 4-Bromofluorobenzene (S) | 104 % | | 70-130 | 1 | | | 1281 |
| Preservation pH | <2 | | | 1 | | | 1281 |

## PAH SIM

Analysis Desc: SW-846 8270C SIM | Preparation Batches:

Batch: 1258 SW-846 3510C on 04/27/2009 13:08 by N_M

Analytical Batches:

Batch: 1082 SW-846 8270C SIM on 05/04/2009 22:40 by SBG

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Acenaphthylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)pyrene | ND | | 0.70 | 1 | | 1258 | 1082 |
| Benzo(b)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(g,h,i)perylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(k)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Chrysene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenz(a,h)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenzofuran | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluorene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Indeno(1,2,3-cd)pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| 1-Methylnaphthalene | 1.8 | | 1.0 | 1 | | 1258 | 1082 |
| 2-Methylnaphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Naphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 | Project Number: COP - Line NM1-1

Lab ID: **H09040524003** | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Sample ID: **IW-3** | Date/Time Collected: 4/21/2009 08:51

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Nitrobenzene-d5 (S) | 68 % | | 10-165 | 1 | | 1258 | 1082 |
| 2-Fluorobiphenyl (S) | 60.5 % | | 10-123 | 1 | | 1258 | 1082 |
| Terphenyl-d14 (S) | 44.3 % | | 10-150 | 1 | | 1258 | 1082 |

**ICP/MS DISSOLVED METALS**

Analysis Desc: SW-846 6020A

Preparation Batches:

Batch: 1168 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:

Batch: 1101 SW-846 6020A on 05/01/2009 00:29 by S_C

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Aluminum | 0.0203 | | 0.0100 | 1 | | 1168 | 1119 |
| Arsenic | 0.0223 | | 0.00500 | 1 | | 1168 | 1101 |
| Barium | 0.182 | | 0.00500 | 1 | | 1168 | 1101 |
| Cadmium | ND | | 0.00500 | 1 | | 1168 | 1119 |
| Chromium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Cobalt | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Copper | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Lead | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Manganese | 0.0210 | | 0.00500 | 1 | | 1168 | 1101 |
| Molybdenum | 0.0128 | | 0.0100 | 1 | | 1168 | 1119 |
| Nickel | 0.0205 | | 0.00500 | 1 | | 1168 | 1101 |
| Selenium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Silver | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Zinc | 0.0105 | | 0.0100 | 1 | | 1168 | 1101 |

**METALS**

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1056 SW-846 7470A on 05/04/2009 12:00 by F_S

Analytical Batches:

Batch: 1057 SW-846 7470A on 05/04/2009 15:17 by F_S

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | | 1056 | 1057 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524003** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **IW-3** Date/Time Collected: 4/21/2009 08:51

**Gasoline Range Organics (GRO)**

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 1267 SW-846 8015B GRO Gas on 04/25/2009 16:01 by WLV

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.10 | 1 | | | 1267 |
| 1,4-Difluorobenzene (S) | 95.8 % | | 60-155 | 1 | | | 1267 |
| 4-Bromofluorobenzene (S) | 102 % | | 50-158 | 1 | | | 1267 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 | Project Number: COP - Line NM1-1

Lab ID: **H09040524004** | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Sample ID: **IW-4** | Date/Time Collected: 4/21/2009 09:25

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1067 EPA 300.0 on 05/05/2009 06:14 by BDG DF = 1

Batch: 1067 EPA 300.0 on 05/05/2009 08:58 by BDG DF = 10

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Chloride | 67.1 | | 5.00 | 10 | | | 1067 |
| Fluoride | 1.19 | | 0.500 | 1 | | | 1067 |

**WET CHEMISTRY**

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1142 SM 2540 C on 04/24/2009 19:00 by CFS

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | 555 | | 10.0 | 1 | | | 1142 |

**Diesel Range Organics (DRO)**

Analysis Desc: SW-846 8015B DRO LVI

Preparation Batches:

Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:17 by N_M

Analytical Batches:

Batch: 1188 SW-846 8015B DRO LVI on 05/01/2009 14:19 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | 5.2 | | 0.10 | 2 | | 1263 | 1188 |
| n-Pentacosane (S) | 103 % | | 20-150 | 2 | | 1263 | 1188 |

**ICP DISSOLVED METALS**

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1166 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:

Batch: 1080 SW-846 6010B on 05/05/2009 20:53 by EBG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Boron | 0.153 | | 0.100 | 1 | | 1166 | 1080 |
| Iron | 0.527 | | 0.0200 | 1 | | 1166 | 1080 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524004** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **IW-4** Date/Time Collected: 4/21/2009 09:25

## VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 1281 SW-846 8021B on 04/28/2009 17:37 by WLV

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 1 | | | 1281 |
| Ethylbenzene | ND | | 1.0 | 1 | | | 1281 |
| Toluene | ND | | 1.0 | 1 | | | 1281 |
| m,p-Xylene | ND | | 1.0 | 1 | | | 1281 |
| o-Xylene | ND | | 1.0 | 1 | | | 1281 |
| Xylenes, Total | ND | | 1.0 | 1 | | | 1281 |
| 1,4-Difluorobenzene (S) | 92.1 % | | 70-130 | 1 | | | 1281 |
| 4-Bromofluorobenzene (S) | 101 % | | 70-130 | 1 | | | 1281 |
| Preservation pH | <2 | | | 1 | | | 1281 |

## PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1258 SW-846 3510C on 04/27/2009 13:08 by N_M
Analytical Batches:
Batch: 1082 SW-846 8270C SIM on 05/04/2009 23:11 by SBG

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Acenaphthylene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Anthracene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(a)anthracene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(a)pyrene | ND | | 3.5 | 5 | | 1258 | 1082 |
| Benzo(b)fluoranthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(g,h,i)perylene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(k)fluoranthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Chrysene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Dibenzofuran | ND | | 5.0 | 5 | | 1258 | 1082 |
| Fluoranthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Fluorene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Indeno(1,2,3-cd)pyrene | ND | | 5.0 | 5 | | 1258 | 1082 |
| 1-Methylnaphthalene | ND | | 5.0 | 5 | | 1258 | 1082 |
| 2-Methylnaphthalene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Naphthalene | ND | | 5.0 | 5 | | 1258 | 1082 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 | Project Number: COP - Line NM1-1

Lab ID: **H09040524004** | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Sample ID: **IW-4** | Date/Time Collected: 4/21/2009 09:25

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Pyrene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Nitrobenzene-d5 (S) | 94.8 % | | 10-165 | 5 | | 1258 | 1082 |
| 2-Fluorobiphenyl (S) | 94.5 % | | 10-123 | 5 | | 1258 | 1082 |
| Terphenyl-d14 (S) | 55.8 % | | 10-150 | 5 | | 1258 | 1082 |

**ICP/MS DISSOLVED METALS**

Analysis Desc: SW-846 6020A

Preparation Batches:
Batch: 1168 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:
Batch: 1101 SW-846 6020A on 05/01/2009 00:34 by S_C

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Aluminum | 0.0714 | | 0.0100 | 1 | | 1168 | 1119 |
| Arsenic | 0.0186 | | 0.00500 | 1 | | 1168 | 1101 |
| Barium | 0.327 | | 0.00500 | 1 | | 1168 | 1101 |
| Cadmium | ND | | 0.00500 | 1 | | 1168 | 1119 |
| Chromium | 0.00710 | | 0.00500 | 1 | | 1168 | 1101 |
| Cobalt | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Copper | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Lead | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Manganese | 0.0661 | | 0.00500 | 1 | | 1168 | 1101 |
| Molybdenum | ND | | 0.0100 | 1 | | 1168 | 1119 |
| Nickel | 0.00847 | | 0.00500 | 1 | | 1168 | 1101 |
| Selenium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Silver | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Zinc | 0.0128 | | 0.0100 | 1 | | 1168 | 1101 |

**METALS**

Analysis Desc: SW-846 7470A

Preparation Batches:
Batch: 1056 SW-846 7470A on 05/04/2009 12:00 by F_S

Analytical Batches:
Batch: 1057 SW-846 7470A on 05/04/2009 15:19 by F_S

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | | 1056 | 1057 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524004** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **IW-4** Date/Time Collected: 4/21/2009 09:25

**Gasoline Range Organics (GRO)**

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO Gas Analytical Batches:

Batch: 1277 SW-846 8015B GRO Gas on 04/26/2009 22:50 by WLV

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | 0.16 | | 0.10 | 1 | | | 1277 |
| 1,4-Difluorobenzene (S) | 97.7 % | | 60-155 | 1 | | | 1277 |
| 4-Bromofluorobenzene (S) | 108 % | | 50-158 | 1 | | | 1277 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 | Project Number: COP - Line NM1-1

Lab ID: **H09040524005** | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Sample ID: **IW-5** | Date/Time Collected: 4/21/2009 09:55

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1067 EPA 300.0 on 05/05/2009 06:32 by BDG DF = 1

Batch: 1067 EPA 300.0 on 05/05/2009 09:16 by BDG DF = 10

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Chloride | 134 | | 5.00 | 10 | | | 1067 |
| Fluoride | 0.618 | | 0.500 | 1 | | | 1067 |

**WET CHEMISTRY**

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1142 SM 2540 C on 04/24/2009 19:00 by CFS

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | 842 | | 20.0 | 2 | | | 1142 |

**Diesel Range Organics (DRO)**

Analysis Desc: SW-846 8015B DRO LVI

Preparation Batches:

Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:17 by N_M

Analytical Batches:

Batch: 1188 SW-846 8015B DRO LVI on 04/30/2009 04:34 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | 18 | | 0.50 | 10 | | 1263 | 1188 |
| n-Pentacosane (S) | 129 % | | 20-150 | 10 | | 1263 | 1188 |

**ICP DISSOLVED METALS**

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1166 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:

Batch: 1080 SW-846 6010B on 05/05/2009 20:57 by EBG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Boron | 0.283 | | 0.100 | 1 | | 1166 | 1080 |
| Iron | 2.65 | | 0.0200 | 1 | | 1166 | 1080 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524005** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **IW-5** Date/Time Collected: 4/21/2009 09:55

## VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 1281 SW-846 8021B on 04/28/2009 18:08 by WLV

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 1 | | | 1281 |
| Ethylbenzene | ND | | 1.0 | 1 | | | 1281 |
| Toluene | ND | | 1.0 | 1 | | | 1281 |
| m,p-Xylene | 5.6 | | 1.0 | 1 | | | 1281 |
| o-Xylene | ND | | 1.0 | 1 | | | 1281 |
| Xylenes, Total | 5.6 | | 1.0 | 1 | | | 1281 |
| 1,4-Difluorobenzene (S) | 96 % | | 70-130 | 1 | | | 1281 |
| 4-Bromofluorobenzene (S) | 106 % | | 70-130 | 1 | | | 1281 |
| Preservation pH | <2 | | | 1 | | | 1281 |

## PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1258 SW-846 3510C on 04/27/2009 13:08 by N_M
Analytical Batches:
Batch: 1082 SW-846 8270C SIM on 05/04/2009 23:42 by SBG

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 10 | 10 | | 1258 | 1082 |
| Acenaphthylene | ND | | 10 | 10 | | 1258 | 1082 |
| Anthracene | ND | | 10 | 10 | | 1258 | 1082 |
| Benzo(a)anthracene | ND | | 10 | 10 | | 1258 | 1082 |
| Benzo(a)pyrene | ND | | 7.0 | 10 | | 1258 | 1082 |
| Benzo(b)fluoranthene | ND | | 10 | 10 | | 1258 | 1082 |
| Benzo(g,h,i)perylene | ND | | 10 | 10 | | 1258 | 1082 |
| Benzo(k)fluoranthene | ND | | 10 | 10 | | 1258 | 1082 |
| Chrysene | ND | | 10 | 10 | | 1258 | 1082 |
| Dibenz(a,h)anthracene | ND | | 10 | 10 | | 1258 | 1082 |
| Dibenzofuran | 19 | | 10 | 10 | | 1258 | 1082 |
| Fluoranthene | ND | | 10 | 10 | | 1258 | 1082 |
| Fluorene | 11 | | 10 | 10 | | 1258 | 1082 |
| Indeno(1,2,3-cd)pyrene | ND | | 10 | 10 | | 1258 | 1082 |
| 1-Methylnaphthalene | 19 | | 10 | 10 | | 1258 | 1082 |
| 2-Methylnaphthalene | ND | | 10 | 10 | | 1258 | 1082 |
| Naphthalene | ND | | 10 | 10 | | 1258 | 1082 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524005** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **IW-5** Date/Time Collected: 4/21/2009 09:55

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Phenanthrene | 23 | | 10 | 10 | | 1258 | 1082 |
| Pyrene | ND | | 10 | 10 | | 1258 | 1082 |
| Nitrobenzene-d5 (S) | 0 % | D* | 10-165 | 10 | | 1258 | 1082 |
| 2-Fluorobiphenyl (S) | 0 % | D* | 10-123 | 10 | | 1258 | 1082 |
| Terphenyl-d14 (S) | 0 % | D* | 10-150 | 10 | | 1258 | 1082 |

**ICP/MS DISSOLVED METALS**

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1168 SW-846 3010A on 04/28/2009 16:00 by A_B
Analytical Batches:
Batch: 1101 SW-846 6020A on 05/01/2009 00:39 by S_C

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Aluminum | 0.0156 | | 0.0100 | 1 | | 1168 | 1119 |
| Arsenic | 0.0155 | | 0.00500 | 1 | | 1168 | 1101 |
| Barium | 0.389 | | 0.00500 | 1 | | 1168 | 1101 |
| Cadmium | ND | | 0.00500 | 1 | | 1168 | 1119 |
| Chromium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Cobalt | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Copper | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Lead | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Manganese | 0.110 | | 0.00500 | 1 | | 1168 | 1101 |
| Molybdenum | ND | | 0.0100 | 1 | | 1168 | 1119 |
| Nickel | 0.00593 | | 0.00500 | 1 | | 1168 | 1101 |
| Selenium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Silver | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Zinc | ND | | 0.0100 | 1 | | 1168 | 1101 |

**METALS**

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1056 SW-846 7470A on 05/04/2009 12:00 by F_S
Analytical Batches:
Batch: 1057 SW-846 7470A on 05/04/2009 15:23 by F_S

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | | 1056 | 1057 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524005** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **IW-5** Date/Time Collected: 4/21/2009 09:55

**Gasoline Range Organics (GRO)**

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:

Batch: 1277 SW-846 8015B GRO Gas on 04/26/2009 23:19 by WLV

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | 0.36 | | 0.10 | 1 | | | 1277 |
| 1,4-Difluorobenzene (S) | 101 % | | 60-155 | 1 | | | 1277 |
| 4-Bromofluorobenzene (S) | 114 % | | 50-158 | 1 | | | 1277 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524006** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **IW-7** Date/Time Collected: 4/21/2009 10:17

## WET CHEMISTRY

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1067 EPA 300.0 on 05/05/2009 09:35 by BDG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Chloride | 71.4 | | 5.00 | 10 | | | 1067 |
| Fluoride | 1.30 | | 0.500 | 1 | | | 1067 |

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1142 SM 2540 C on 04/24/2009 19:00 by CFS

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | 800 | | 40.0 | 4 | | | 1142 |

## Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI

Preparation Batches:
Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:17 by N_M
Analytical Batches:
Batch: 1188 SW-846 8015B DRO LVI on 05/01/2009 15:28 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | 6.5 | | 0.10 | 2 | | 1263 | 1188 |
| n-Pentacosane (S) | 98.6 % | | 20-150 | 2 | | 1263 | 1188 |

## ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1166 SW-846 3010A on 04/28/2009 16:00 by A_B
Analytical Batches:
Batch: 1080 SW-846 6010B on 05/05/2009 21:02 by EBG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Boron | 0.312 | | 0.100 | 1 | | 1166 | 1080 |
| Iron | 0.746 | | 0.0200 | 1 | | 1166 | 1080 |

## VOLATILES

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524006** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **IW-7** Date/Time Collected: 4/21/2009 10:17

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:

Batch: 1281 SW-846 8021B on 04/28/2009 18:40 by WLV

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 1 | | | 1281 |
| Ethylbenzene | ND | | 1.0 | 1 | | | 1281 |
| Toluene | ND | | 1.0 | 1 | | | 1281 |
| m,p-Xylene | ND | | 1.0 | 1 | | | 1281 |
| o-Xylene | ND | | 1.0 | 1 | | | 1281 |
| Xylenes, Total | ND | | 1.0 | 1 | | | 1281 |
| 1,4-Difluorobenzene (S) | 95 % | | 70-130 | 1 | | | 1281 |
| 4-Bromofluorobenzene (S) | 105 % | | 70-130 | 1 | | | 1281 |
| Preservation pH | <2 | | | 1 | | | 1281 |

**PAH SIM**

Analysis Desc: SW-846 8270C SIM Preparation Batches:

Batch: 1258 SW-846 3510C on 04/27/2009 13:08 by N_M

Analytical Batches:

Batch: 1082 SW-846 8270C SIM on 05/05/2009 00:13 by SBG

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Acenaphthylene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Anthracene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(a)anthracene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(a)pyrene | 4.5 | | 3.5 | 5 | | 1258 | 1082 |
| Benzo(b)fluoranthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(g,h,i)perylene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Benzo(k)fluoranthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Chrysene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Dibenzofuran | ND | | 5.0 | 5 | | 1258 | 1082 |
| Fluoranthene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Fluorene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Indeno(1,2,3-cd)pyrene | ND | | 5.0 | 5 | | 1258 | 1082 |
| 1-Methylnaphthalene | ND | | 5.0 | 5 | | 1258 | 1082 |
| 2-Methylnaphthalene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Naphthalene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Phenanthrene | ND | | 5.0 | 5 | | 1258 | 1082 |
| Pyrene | ND | | 5.0 | 5 | | 1258 | 1082 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 | Project Number: COP - Line NM1-1

Lab ID: **H09040524006** | Date/Time Received: 4/22/2009 10:00 | Matrix: Water

Sample ID: **IW-7** | Date/Time Collected: 4/21/2009 10:17

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 (S) | 88 % | | 10-165 | 5 | | 1258 | 1082 |
| 2-Fluorobiphenyl (S) | 62 % | | 10-123 | 5 | | 1258 | 1082 |
| Terphenyl-d14 (S) | 54.8 % | | 10-150 | 5 | | 1258 | 1082 |

**ICP/MS DISSOLVED METALS**

Analysis Desc: SW-846 6020A

Preparation Batches:

Batch: 1168 SW-846 3010A on 04/28/2009 16:00 by A_B

Analytical Batches:

Batch: 1101 SW-846 6020A on 05/01/2009 00:44 by S_C

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Aluminum | 0.0984 | | 0.0100 | 1 | | 1168 | 1119 |
| Arsenic | 0.0332 | | 0.00500 | 1 | | 1168 | 1101 |
| Barium | 0.152 | | 0.00500 | 1 | | 1168 | 1101 |
| Cadmium | ND | | 0.00500 | 1 | | 1168 | 1119 |
| Chromium | 0.00744 | | 0.00500 | 1 | | 1168 | 1101 |
| Cobalt | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Copper | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Lead | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Manganese | 0.0347 | | 0.00500 | 1 | | 1168 | 1101 |
| Molybdenum | 0.0261 | | 0.0100 | 1 | | 1168 | 1119 |
| Nickel | 0.0158 | | 0.00500 | 1 | | 1168 | 1101 |
| Selenium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Silver | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Zinc | 0.0131 | | 0.0100 | 1 | | 1168 | 1101 |

**METALS**

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1056 SW-846 7470A on 05/04/2009 12:00 by F_S

Analytical Batches:

Batch: 1057 SW-846 7470A on 05/04/2009 15:34 by F_S

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | | 1056 | 1057 |

**Gasoline Range Organics (GRO)**

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524006** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **IW-7** Date/Time Collected: 4/21/2009 10:17

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 1277 SW-846 8015B GRO Gas on 04/26/2009 23:48 by WLV

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | 0.12 | | 0.10 | 1 | | | 1277 |
| 1,4-Difluorobenzene (S) | 98.1 % | | 60-155 | 1 | | | 1277 |
| 4-Bromofluorobenzene (S) | 107 % | | 50-158 | 1 | | | 1277 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1

Lab ID: **H09040524007**
Sample ID: **DUP#1**

Project Number: COP - Line NM1-1
Date/Time Received: 4/22/2009 10:00
Date/Time Collected: 4/21/2009 00:00
Matrix: Water

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1067 EPA 300.0 on 05/05/2009 07:09 by BDG DF = 1
Batch: 1067 EPA 300.0 on 05/05/2009 09:53 by BDG DF = 10

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Chloride | 118 | | 5.00 | 10 | | | 1067 |
| Fluoride | 1.15 | | 0.500 | 1 | | | 1067 |

**WET CHEMISTRY**

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1142 SM 2540 C on 04/24/2009 19:00 by CFS

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | 839 | | 10.0 | 1 | | | 1142 |

**Diesel Range Organics (DRO)**

Analysis Desc: SW-846 8015B DRO LVI

Preparation Batches:
Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:16 by N_M
Analytical Batches:
Batch: 1188 SW-846 8015B DRO LVI on 04/30/2009 01:29 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | 0.099 | | 0.050 | 1 | | 1263 | 1188 |
| n-Pentacosane (S) | 86.5 % | | 20-150 | 1 | | 1263 | 1188 |

**ICP DISSOLVED METALS**

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1166 SW-846 3010A on 04/28/2009 16:00 by A_B
Analytical Batches:
Batch: 1080 SW-846 6010B on 05/05/2009 21:06 by EBG

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Boron | 0.265 | | 0.100 | 1 | | 1166 | 1080 |
| Iron | 0.756 | | 0.0200 | 1 | | 1166 | 1080 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524007** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **DUP#1** Date/Time Collected: 4/21/2009 00:00

## VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:

Batch: 1279 SW-846 8021B on 04/29/2009 14:41 by WLV

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 1 | | | 1279 |
| Ethylbenzene | ND | | 1.0 | 1 | | | 1279 |
| Toluene | ND | | 1.0 | 1 | | | 1279 |
| m,p-Xylene | ND | | 1.0 | 1 | | | 1279 |
| o-Xylene | ND | | 1.0 | 1 | | | 1279 |
| Xylenes, Total | ND | | 1.0 | 1 | | | 1279 |
| 1,4-Difluorobenzene (S) | 97.3 % | | 70-130 | 1 | | | 1279 |
| 4-Bromofluorobenzene (S) | 100 % | | 70-130 | 1 | | | 1279 |
| Preservation pH | <2 | | | 1 | | | 1279 |

## PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:

Batch: 1258 SW-846 3510C on 04/27/2009 13:07 by N_M

Analytical Batches:

Batch: 1082 SW-846 8270C SIM on 05/04/2009 21:39 by SBG

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Acenaphthylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(a)pyrene | ND | | 0.70 | 1 | | 1258 | 1082 |
| Benzo(b)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(g,h,i)perylene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Benzo(k)fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Chrysene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenz(a,h)anthracene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Dibenzofuran | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluoranthene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Fluorene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Indeno(1,2,3-cd)pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| 1-Methylnaphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |
| 2-Methylnaphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Naphthalene | ND | | 1.0 | 1 | | 1258 | 1082 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524007** Date/Time Received: 4/22/2009 10:00 Matrix: Water
Sample ID: **DUP#1** Date/Time Collected: 4/21/2009 00:00

| Parameters | Results | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Pyrene | ND | | 1.0 | 1 | | 1258 | 1082 |
| Nitrobenzene-d5 (S) | 52 % | | 10-165 | 1 | | 1258 | 1082 |
| 2-Fluorobiphenyl (S) | 55.5 % | | 10-123 | 1 | | 1258 | 1082 |
| Terphenyl-d14 (S) | 72 % | | 10-150 | 1 | | 1258 | 1082 |

**ICP/MS DISSOLVED METALS**

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1168 SW-846 3010A on 04/28/2009 16:00 by A_B
Analytical Batches:
Batch: 1101 SW-846 6020A on 05/01/2009 00:49 by S_C

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Aluminum | 1.33 | | 0.0100 | 1 | | 1168 | 1119 |
| Arsenic | 0.00968 | | 0.00500 | 1 | | 1168 | 1101 |
| Barium | 0.136 | | 0.00500 | 1 | | 1168 | 1101 |
| Cadmium | ND | | 0.00500 | 1 | | 1168 | 1119 |
| Chromium | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Cobalt | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Copper | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Lead | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Manganese | 0.0109 | | 0.00500 | 1 | | 1168 | 1101 |
| Molybdenum | ND | | 0.0100 | 1 | | 1168 | 1119 |
| Nickel | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Silver | ND | | 0.00500 | 1 | | 1168 | 1101 |
| Zinc | ND | | 0.0100 | 1 | | 1168 | 1101 |

**METALS**

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1056 SW-846 7470A on 05/04/2009 12:00 by F_S
Analytical Batches:
Batch: 1057 SW-846 7470A on 05/04/2009 15:37 by F_S

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | | 1056 | 1057 |

**Gasoline Range Organics (GRO)**

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524007** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **DUP#1** Date/Time Collected: 4/21/2009 00:00

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO Gas Analytical Batches:

Batch: 1267 SW-846 8015B GRO Gas on 04/25/2009 18:02 by WLV

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.10 | 1 | | | 1267 |
| 1,4-Difluorobenzene (S) | 96 % | | 60-155 | 1 | | | 1267 |
| 4-Bromofluorobenzene (S) | 101 % | | 50-158 | 1 | | | 1267 |

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# ANALYTICAL RESULTS

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

Lab ID: **H09040524008** Date/Time Received: 4/22/2009 10:00 Matrix: Water

Sample ID: **MW-13** Date/Time Collected: 4/21/2009 15:15

**Diesel Range Organics (DRO)**

Analysis Desc: SW-846 8015B DRO LVI
Preparation Batches:
Batch: 1263 SW-846 8015B DRO LVI on 04/27/2009 18:17 by N_M
Analytical Batches:
Batch: 1188 SW-846 8015B DRO LVI on 04/30/2009 02:07 by SLE

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | 0.45 | | 0.050 | 1 | | 1263 | 1188 |
| n-Pentacosane (S) | 82.8 % | | 20-150 | 1 | | 1263 | 1188 |

**VOLATILES**

Analysis Desc: SW-846 8021B
SW-846 5030Analytical Batches:
Batch: 1279 SW-846 8021B on 04/29/2009 15:11 by WLV DF = 1
Batch: 1279 SW-846 8021B on 04/29/2009 17:31 by WLV DF = 10

| Parameters | Results ug/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Benzene | 4600 | | 10 | 10 | | | 1279 |
| Ethylbenzene | 120 | | 1.0 | 1 | | | 1279 |
| Toluene | ND | | 1.0 | 1 | | | 1279 |
| m,p-Xylene | 1.3 | | 1.0 | 1 | | | 1279 |
| o-Xylene | 5.2 | | 1.0 | 1 | | | 1279 |
| Xylenes, Total | 6.5 | | 1.0 | 1 | | | 1279 |
| 1,4-Difluorobenzene (S) | 109 % | | 70-130 | 10 | | | 1279 |
| 1,4-Difluorobenzene (S) | 144 % | MI* | 70-130 | 1 | | | 1279 |
| 4-Bromofluorobenzene (S) | 102 % | | 70-130 | 10 | | | 1279 |
| 4-Bromofluorobenzene (S) | 108 % | | 70-130 | 1 | | | 1279 |
| Preservation pH | <2 | | | 1 | | | 1279 |
| Preservation pH | <2 | | | 10 | | | 1279 |

**Gasoline Range Organics (GRO)**

Analysis Desc: SW-846 8015B GRO Gas
SW-846 8015B GRO GasAnalytical Batches:
Batch: 1277 SW-846 8015B GRO Gas on 04/26/2009 21:22 by WLV

| Parameters | Results mg/l | Qual | Report Limit | DF | RegLmt | Batch Information Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | 11 | | 1.0 | 10 | | | 1277 |
| 1,4-Difluorobenzene (S) | 104 % | | 60-155 | 10 | | | 1277 |
| 4-Bromofluorobenzene (S) | 107 % | | 50-158 | 10 | | | 1277 |

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: WETS/1142 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples: H09040524001 H09040524002 H09040524003 H09040524004 H09040524005 H09040524006 H09040524007 H09040537001 H09040555001 H09040555002 H09040555003 H09040555004 H09040555005 H09040555006 H09040555007

METHOD BLANK: 11501

Analysis Date/Time Analyst: 04/24/2009 19:00 CFS

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Residue, Filterable (TDS) | mg/l | ND | | 10.0 |

LABORATORY CONTROL SAMPLE & LCSD: 11502 11503

LCS Analysis Date/Time Analyst: 04/24/2009 19:00 CFS

LCSD Analysis Date/Time 04/24/2009 19:00 CFS

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | mg/l | 200 | 202.0 | 198.0 | 101 | 99.0 | 95-107 | 2.0 | 10 |

SAMPLE DUPLICATE: 11504 Original: H09040537001

| Parameter | Units | Original Result | DUP Result | RPD | Max RPD | DF |
|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | mg/l | 4860 | 4850 | 0.2 | 10 | 4 |

SAMPLE DUPLICATE: 11505 Original: H09040524001

| Parameter | Units | Original Result | DUP Result | RPD | Max RPD | DF |
|---|---|---|---|---|---|---|
| Residue, Filterable (TDS) | mg/l | 796 | 794 | 0.3 | 10 | 1 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: EXTO/1258 Analysis Method: SW-846 8270C SIM

QC Batch Method: SW-846 3510C Preparation: 04/27/2009 13:07 by N_M

Associated Lab Samples: H09040524001 H09040524002 H09040524003 H09040524004 H09040524005 H09040524006 H09040524007

METHOD BLANK: 11750

Analysis Date/Time Analyst: 05/05/2009 12:42 SBG

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| 1-Methylnaphthalene | ug/l | ND | | 1.0 |
| 2-Methylnaphthalene | ug/l | ND | | 1.0 |
| Acenaphthene | ug/l | ND | | 1.0 |
| Acenaphthylene | ug/l | ND | | 1.0 |
| Anthracene | ug/l | ND | | 1.0 |
| Benzo(a)anthracene | ug/l | ND | | 1.0 |
| Benzo(a)pyrene | ug/l | ND | | 1.0 |
| Benzo(b)fluoranthene | ug/l | ND | | 1.0 |
| Benzo(g,h,i)perylene | ug/l | ND | | 1.0 |
| Benzo(k)fluoranthene | ug/l | ND | | 1.0 |
| Chrysene | ug/l | ND | | 1.0 |
| Dibenz(a,h)anthracene | ug/l | ND | | 1.0 |
| Dibenzofuran | ug/l | ND | | 1.0 |
| Fluoranthene | ug/l | ND | | 1.0 |
| Fluorene | ug/l | ND | | 1.0 |
| Indeno(1,2,3-cd)pyrene | ug/l | ND | | 1.0 |
| Naphthalene | ug/l | ND | | 1.0 |
| Phenanthrene | ug/l | ND | | 1.0 |
| Pyrene | ug/l | ND | | 1.0 |
| Nitrobenzene-d5 (S) | % | 38.1 | | 10-165 |
| 2-Fluorobiphenyl (S) | % | 33.1 | | 10-123 |
| Terphenyl-d14 (S) | % | 37.1 | | 10-150 |

LABORATORY CONTROL SAMPLE & LCSD: 11751 11752

LCS Analysis Date/Time Analyst: 05/05/2009 18:03 SBG

LCSD Analysis Date/Time 05/05/2009 18:34 SBG

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ug/l | 10 | 6.15 | 6.05 | 61.5 | 60.5 | 25-128 | 1.6 | 30 |
| 2-Methylnaphthalene | ug/l | 10 | 6.1 | 6.0 | 61.0 | 60.0 | 21-125 | 1.7 | 30 |
| Acenaphthene | ug/l | 10 | 6.2 | 6.25 | 62.0 | 62.5 | 21-138 | 0.8 | 30 |
| Acenaphthylene | ug/l | 10 | 6.35 | 6.3 | 63.5 | 63.0 | 20-131 | 0.8 | 30 |
| Anthracene | ug/l | 10 | 6.65 | 6.6 | 66.5 | 66.0 | 20-130 | 0.8 | 30 |
| Benzo(a)anthracene | ug/l | 10 | 7.8 | 7.7 | 78.0 | 77.0 | 27-133 | 1.3 | 30 |
| Benzo(a)pyrene | ug/l | 10 | 5.85 | 5.8 | 58.5 | 58.0 | 27-122 | 0.9 | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

LABORATORY CONTROL SAMPLE & LCSD: 11751 11752

LCS Analysis Date/Time Analyst: 05/05/2009 18:03 SBG

LCSD Analysis Date/Time 05/05/2009 18:34 SBG

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | ug/l | 10 | 5.55 | 5.35 | 55.5 | 53.5 | 23-126 | 3.7 | 30 |
| Benzo(g,h,i)perylene | ug/l | 10 | 5.45 | 5.45 | 54.5 | 54.5 | 29-125 | 0.0 | 30 |
| Benzo(k)fluoranthene | ug/l | 10 | 5.0 | 5.05 | 50.0 | 50.5 | 31-133 | 1.0 | 30 |
| Chrysene | ug/l | 10 | 6.5 | 6.5 | 65.0 | 65.0 | 36-135 | 0.0 | 30 |
| Dibenz(a,h)anthracene | ug/l | 10 | 5.2 | 5.15 | 52.0 | 51.5 | 24-120 | 1.0 | 30 |
| Dibenzofuran | ug/l | 10 | 6.25 | 6.35 | 62.5 | 63.5 | 25-124 | 1.6 | 30 |
| Fluoranthene | ug/l | 10 | 6.35 | 6.4 | 63.5 | 64.0 | 26-125 | 0.8 | 30 |
| Fluorene | ug/l | 10 | 6.4 | 6.35 | 64.0 | 63.5 | 22-132 | 0.8 | 30 |
| Indeno(1,2,3-cd)pyrene | ug/l | 10 | 8.2 | 7.95 | 82.0 | 79.5 | 23-127 | 3.1 | 30 |
| Naphthalene | ug/l | 10 | 6.05 | 6.2 | 60.5 | 62.0 | 23-136 | 2.5 | 30 |
| Phenanthrene | ug/l | 10 | 5.95 | 6.0 | 59.5 | 60.0 | 22-133 | 0.8 | 30 |
| Pyrene | ug/l | 10 | 7.4 | 7.4 | 74.0 | 74.0 | 31-142 | 0.0 | 30 |
| Nitrobenzene-d5 (S) | % | | | | 65.5 | 65.5 | 10-165 | | 30 |
| 2-Fluorobiphenyl (S) | % | | | | 58.5 | 59.0 | 10-123 | | 30 |
| Terphenyl-d14 (S) | % | | | | 68.0 | 68.0 | 10-150 | | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: EXTO/1263 Analysis Method: SW-846 8015B DRO LVI

QC Batch Method: SW-846 8015B DRO LVI Preparation: 04/27/2009 18:15 by N_M

Associated Lab Samples: H09040519001 H09040519002 H09040519003 H09040519004 H09040519005 H09040519006
H09040519007 H09040519008 H09040519009 H09040519010 H09040519020 H09040519022
H09040524001 H09040524002 H09040524003 H09040524004 H09040524005 H09040524006
H09040524007 H09040524008

METHOD BLANK: 11877

Analysis Date/Time Analyst: 04/29/2009 12:20 SLE

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | mg/l | ND | | 0.050 |
| n-Pentacosane (S) | % | 142 | | 20-150 |

LABORATORY CONTROL SAMPLE & LCSD: 11878 11879

LCS Analysis Date/Time Analyst: 04/29/2009 12:53 SLE

LCSD Analysis Date/Time 04/29/2009 13:26 SLE

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics(C10-C28) | mg/l | 1.0 | 1.05 | 0.996 | 105 | 99.6 | 21-175 | 5.3 | 43 |
| n-Pentacosane (S) | % | | | | 127 | 110 | 20-150 | | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: GCVW/1266 Analysis Method: SW-846 8015B GRO Gas

QC Batch Method: SW-846 5030 Preparation: 04/25/2009 07:48 by APR

Associated Lab Samples: H09040519021 H09040519022 H09040524001 H09040524002 H09040524003 H09040524007 H09040549001

METHOD BLANK: 12417

Analysis Date/Time Analyst: 04/25/2009 09:44 WLV

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Gasoline Range Organics | mg/l | ND | | 0.10 |
| 4-Bromofluorobenzene (S) | % | 101 | | 50-158 |
| 1,4-Difluorobenzene (S) | % | 95.1 | | 60-155 |

LABORATORY CONTROL SAMPLE: 12418

Analysis Date/Time Analyst: 04/25/2009 08:46 WLV

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Gasoline Range Organics | mg/l | 1.0 | 0.743 | 74.3 | 70-130 |
| 4-Bromofluorobenzene (S) | % | | | 104 | 50-158 |
| 1,4-Difluorobenzene (S) | % | | | 97.9 | 60-155 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12419 12420 Original: H09040524001

MS Analysis Date/Time Analyst: 04/25/2009 12:09 WLV

MSD Analysis Date/Time Analyst: 04/25/2009 12:38 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/l | 0.0045 | 0.8 | 0.655 | 0.663 | 81.9 | 82.9 | 36-160 | 1.2 | 36 |
| 4-Bromofluorobenzene (S) | % | 101 | | | | 104 | 103 | 50-158 | | 30 |
| 1,4-Difluorobenzene (S) | % | 96.5 | | | | 99.1 | 96.0 | 60-155 | | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: GCVW/1270 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 04/25/2009 07:19 by GCV

Associated Lab Samples: H09040519022 H09040524001

METHOD BLANK: 12442

Analysis Date/Time Analyst: 04/25/2009 09:44 WLV

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Benzene | ug/l | ND | | 1.0 |
| Ethylbenzene | ug/l | ND | | 1.0 |
| Toluene | ug/l | ND | | 1.0 |
| m,p-Xylene | ug/l | ND | | 1.0 |
| o-Xylene | ug/l | ND | | 1.0 |
| Xylenes, Total | ug/l | ND | | 1.0 |
| 1,4-Difluorobenzene (S) | % | 98.7 | | 70-130 |
| 4-Bromofluorobenzene (S) | % | 98.3 | | 70-130 |

LABORATORY CONTROL SAMPLE: 12443

Analysis Date/Time Analyst: 04/25/2009 08:17 WLV

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Benzene | ug/l | 20 | 20.5 | 103 | 70-130 |
| Ethylbenzene | ug/l | 20 | 21.3 | 106 | 70-130 |
| Toluene | ug/l | 20 | 20.7 | 103 | 70-130 |
| m,p-Xylene | ug/l | 40 | 43.0 | 108 | 70-130 |
| o-Xylene | ug/l | 20 | 20.3 | 101 | 70-130 |
| Xylenes, Total | ug/l | 60 | 63.3 | 105 | 70-130 |
| 1,4-Difluorobenzene (S) | % | | | 99.6 | 70-130 |
| 4-Bromofluorobenzene (S) | % | | | 99.1 | 70-130 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12444 12445 Original: H09040519022

MS Analysis Date/Time Analyst: 04/25/2009 11:11 WLV

MSD Analysis Date/Time Analyst: 04/25/2009 11:40 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/l | ND | 20 | 20.5 | 20.5 | 103 | 103 | 66-141 | 0.0 | 31 |
| Ethylbenzene | ug/l | ND | 20 | 20.8 | 20.9 | 104 | 104 | 52-136 | 0.0 | 28 |
| Toluene | ug/l | ND | 20 | 20.3 | 20.1 | 101 | 100 | 61-131 | 1.0 | 25 |
| m,p-Xylene | ug/l | ND | 40 | 41.7 | 42.0 | 104 | 105 | 60-130 | 1.0 | 36 |
| o-Xylene | ug/l | ND | 20 | 19.9 | 20.0 | 99.5 | 100 | 64-130 | 0.5 | 30 |
| Xylenes, Total | ug/l | ND | 60 | 61.6 | 62.0 | 103 | 103 | 60-130 | 0.0 | 36 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12444 12445 Original: H09040519022

MS Analysis Date/Time Analyst: 04/25/2009 11:11 WLV

MSD Analysis Date/Time Analyst: 04/25/2009 11:40 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene (S) | % | 98.6 | | | | 99.8 | 99.7 | 70-130 | | 30 |
| 4-Bromofluorobenzene (S) | % | 96.8 | | | | 99.6 | 99.3 | 70-130 | | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: DIGM/1166 Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A Preparation: 04/28/2009 16:00 by A_B

Associated Lab Samples: H09040524001 H09040524002 H09040524003 H09040524004 H09040524005 H09040524006 H09040524007

METHOD BLANK: 12639

Analysis Date/Time Analyst: 05/05/2009 20:04 EBG

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Boron | mg/l | ND | | 0.100 |
| Iron | mg/l | ND | | 0.0200 |

LABORATORY CONTROL SAMPLE: 12640

Analysis Date/Time Analyst: 05/05/2009 20:08 EBG

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Boron | mg/l | 1.0 | 1.053 | 105 | 80-120 |
| Iron | mg/l | 1.0 | 1.048 | 105 | 80-120 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12641 12642 Original: H09040524001

MS Analysis Date/Time Analyst: 05/05/2009 20:16 EBG

MSD Analysis Date/Time Analyst: 05/05/2009 20:20 EBG

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | mg/l | 0.272 | 1.0 | 1.321 | 1.348 | 105 | 108 | 75-125 | 2.8 | 20 |
| Iron | mg/l | 0.0734 | 1.0 | 1.075 | 1.073 | 100 | 100 | 75-125 | 0.0 | 20 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: GCVW/1275 Analysis Method: SW-846 8015B GRO Gas

QC Batch Method: SW-846 5030 Preparation: 04/26/2009 14:01 by GCV

Associated Lab Samples: H09040519005 H09040519006 H09040524002 H09040524004 H09040524005 H09040524006 H09040524008 H09040549002

METHOD BLANK: 12656

Analysis Date/Time Analyst: 04/26/2009 15:58 WLV

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Gasoline Range Organics | mg/l | ND | | 0.10 |
| 4-Bromofluorobenzene (S) | % | 104 | | 50-158 |
| 1,4-Difluorobenzene (S) | % | 96.5 | | 60-155 |

LABORATORY CONTROL SAMPLE: 12657

Analysis Date/Time Analyst: 04/26/2009 15:00 WLV

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Gasoline Range Organics | mg/l | 1.0 | 0.809 | 80.9 | 70-130 |
| 4-Bromofluorobenzene (S) | % | | | 108 | 50-158 |
| 1,4-Difluorobenzene (S) | % | | | 101 | 60-155 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12658 12659 Original: H09040524002

MS Analysis Date/Time Analyst: 04/26/2009 18:25 WLV

MSD Analysis Date/Time Analyst: 04/26/2009 18:55 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/l | 0.11 | 0.8 | 0.694 | 0.732 | 73.3 | 78.1 | 36-160 | 6.3 | 36 |
| 4-Bromofluorobenzene (S) | % | 107 | | | | 106 | 106 | 50-158 | | 30 |
| 1,4-Difluorobenzene (S) | % | 96.5 | | | | 101 | 97.7 | 60-155 | | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: DIGM/1168 Analysis Method: SW-846 6020A

QC Batch Method: SW-846 3010A Preparation: 04/28/2009 16:00 by A_B

Associated Lab Samples: H09040524001 H09040524002 H09040524003 H09040524004 H09040524005 H09040524006 H09040524007

METHOD BLANK: 12671

Analysis Date/Time Analyst: 04/30/2009 23:32 S_C

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Arsenic | mg/l | ND | | 0.00500 |
| Barium | mg/l | ND | | 0.00500 |
| Chromium | mg/l | ND | | 0.00500 |
| Cobalt | mg/l | ND | | 0.00500 |
| Copper | mg/l | ND | | 0.00500 |
| Lead | mg/l | ND | | 0.00500 |
| Manganese | mg/l | ND | | 0.00500 |
| Nickel | mg/l | ND | | 0.00500 |
| Selenium | mg/l | ND | | 0.00500 |
| Silver | mg/l | ND | | 0.00500 |
| Zinc | mg/l | ND | | 0.0100 |

Analysis Date/Time Analyst: 05/16/2009 17:48 S_C

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Aluminum | mg/l | ND | | 0.0100 |
| Cadmium | mg/l | ND | | 0.00500 |
| Molybdenum | mg/l | ND | | 0.0100 |

LABORATORY CONTROL SAMPLE: 12672

Analysis Date/Time Analyst: 04/30/2009 23:37 S_C

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Arsenic | mg/l | 0.10 | 0.0998 | 99.8 | 80-120 |
| Barium | mg/l | 0.10 | 0.09134 | 91.3 | 80-120 |
| Chromium | mg/l | 0.10 | 0.09516 | 95.2 | 80-120 |
| Cobalt | mg/l | 0.10 | 0.08676 | 86.8 | 80-120 |
| Copper | mg/l | 0.10 | 0.107 | 107 | 80-120 |
| Lead | mg/l | 0.10 | 0.0863 | 86.3 | 80-120 |
| Manganese | mg/l | 0.10 | 0.0882 | 88.2 | 80-120 |
| Nickel | mg/l | 0.10 | 0.1058 | 106 | 80-120 |
| Selenium | mg/l | 0.10 | 0.08863 | 88.6 | 80-120 |
| Silver | mg/l | 0.10 | 0.1015 | 102 | 80-120 |
| Zinc | mg/l | 0.10 | 0.09015 | 90.2 | 80-120 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

LABORATORY CONTROL SAMPLE: 12672

Analysis Date/Time Analyst: 05/16/2009 18:48 S_C

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Aluminum | mg/l | 0.10 | 0.1057 | 106 | 80-120 |
| Cadmium | mg/l | 0.10 | 0.088 | 88.0 | 80-120 |
| Molybdenum | mg/l | 0.10 | 0.09687 | 96.9 | 80-120 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12673 12674 Original: H09040524002

MS Analysis Date/Time Analyst: 04/30/2009 23:47 S_C

MSD Analysis Date/Time Analyst: 04/30/2009 23:53 S_C

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0.00956 | 0.10 | 0.1091 | 0.1099 | 99.5 | 100 | 75-125 | 0.5 | 20 |
| Barium | mg/l | 0.11 | 0.10 | 0.2078 | 0.2131 | 97.9 | 103 | 75-125 | 5.1 | 20 |
| Chromium | mg/l | 0.00249 | 0.10 | 0.09893 | 0.09855 | 98.9 | 98.6 | 75-125 | 0.3 | 20 |
| Cobalt | mg/l | 0.00234 | 0.10 | 0.08889 | 0.09133 | 88.9 | 91.3 | 75-125 | 2.7 | 20 |
| Copper | mg/l | 0.00038 | 0.10 | 0.1083 | 0.106 | 108 | 106 | 75-125 | 1.9 | 20 |
| Lead | mg/l | 2.81e-00 | 0.10 | 0.09187 | 0.0919 | 91.9 | 91.9 | 75-125 | 0.0 | 20 |
| Manganese | mg/l | 0.00994 | 0.10 | 0.09505 | 0.09703 | 85.1 | 87.1 | 75-125 | 2.3 | 20 |
| Nickel | mg/l | 0.0106 | 0.10 | 0.1163 | 0.1164 | 106 | 106 | 75-125 | 0.0 | 20 |
| Selenium | mg/l | 0.00063 | 0.10 | 0.1025 | 0.09892 | 102 | 98.9 | 75-125 | 3.1 | 20 |
| Silver | mg/l | ND | 0.10 | 0.1001 | 0.1019 | 100 | 102 | 75-125 | 2.0 | 20 |
| Zinc | mg/l | 0.0152 | 0.10 | 0.09377 | 0.08704 | 78.6 | 71.8 * | 75-125 | 9.0 | 20 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12673 12674 Original: H09040524002

MS Analysis Date/Time Analyst: 05/16/2009 18:11 S_C

MSD Analysis Date/Time Analyst: 05/16/2009 18:16 S_C

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/l | 0.0273 | 0.10 | 0.1277 | 0.118 | 100 | 90.7 | 75-125 | 9.8 | 20 |
| Cadmium | mg/l | 0.00011 | 0.10 | 0.1079 | 0.1126 | 108 | 113 | 75-125 | 4.5 | 20 |
| Molybdenum | mg/l | 0.015 | 0.10 | 0.1176 | 0.1224 | 103 | 107 | 75-125 | 3.8 | 20 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

POST DIGESTION SPIKE & DUPLICATE: 12675 12676 Original: H09040524002

PDS Analysis Date/Time Analyst: 05/01/2009 00:03 S_C

PDSD Analysis Date/Time Analyst: 05/01/2009 00:08 S_C

| Parameter | Units | Original Result | Spike Conc. | PDS Result | PDSD Result | PDS % Rec | PDSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | mg/l | 0.0152 | 0.10 | 0.0938 | 0.0936 | 78.6 * | 78.4 * | 85-125 | 0.3 | 20 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: GCVW/1278 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 04/29/2009 10:21 by GCV

Associated Lab Samples: H09040519005 H09040519006 H09040519011 H09040519012 H09040519013 H09040519014 H09040519015 H09040524007 H09040524008 H09040549001 H09040549002

METHOD BLANK: 12677

Analysis Date/Time Analyst: 04/29/2009 12:01 WLV

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Benzene | ug/l | ND | | 1.0 |
| Ethylbenzene | ug/l | ND | | 1.0 |
| Toluene | ug/l | ND | | 1.0 |
| m,p-Xylene | ug/l | ND | | 1.0 |
| o-Xylene | ug/l | ND | | 1.0 |
| Xylenes, Total | ug/l | ND | | 1.0 |
| 1,4-Difluorobenzene (S) | % | 98.8 | | 70-130 |
| 4-Bromofluorobenzene (S) | % | 100 | | 70-130 |

LABORATORY CONTROL SAMPLE: 12678

Analysis Date/Time Analyst: 04/29/2009 11:02 WLV

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Benzene | ug/l | 20 | 19.8 | 99.0 | 70-130 |
| Ethylbenzene | ug/l | 20 | 21.4 | 107 | 70-130 |
| Toluene | ug/l | 20 | 20.2 | 101 | 70-130 |
| m,p-Xylene | ug/l | 40 | 43.5 | 109 | 70-130 |
| o-Xylene | ug/l | 20 | 20.3 | 102 | 70-130 |
| Xylenes, Total | ug/l | 60 | 63.8 | 106 | 70-130 |
| 1,4-Difluorobenzene (S) | % | | | 98.7 | 70-130 |
| 4-Bromofluorobenzene (S) | % | | | 101 | 70-130 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12679 12680 Original: H09040549001

MS Analysis Date/Time Analyst: 04/29/2009 13:42 WLV

MSD Analysis Date/Time Analyst: 04/29/2009 14:11 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/l | 1400 | 100 | 1530 | 1490 | NC | NC | 66-141 | NC | 31 |
| Ethylbenzene | ug/l | 64 | 100 | 168 | 163 | 104 | 98.3 | 52-136 | 5.6 | 28 |
| Toluene | ug/l | 830 | 100 | 923 | 897 | NC | NC | 61-131 | NC | 25 |
| m,p-Xylene | ug/l | 400 | 200 | 606 | 587 | 103 | 93.2 | 60-130 | 10.0 | 36 |
| o-Xylene | ug/l | 170 | 100 | 270 | 261 | 99.3 | 90.9 | 64-130 | 8.8 | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12679 12680 Original: H09040549001

MS Analysis Date/Time Analyst: 04/29/2009 13:42 WLV

MSD Analysis Date/Time Analyst: 04/29/2009 14:11 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | ug/l | 570 | 300 | 876 | 848 | 102 | 92.5 | 60-130 | 9.8 | 36 |
| 1,4-Difluorobenzene (S) | % | 109 | | | | 109 | 104 | 70-130 | | 30 |
| 4-Bromofluorobenzene (S) | % | 104 | | | | 104 | 103 | 70-130 | | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: GCVW/1280 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 04/28/2009 13:49 by GCV

Associated Lab Samples: H09040524002 H09040524003 H09040524004 H09040524005 H09040524006

METHOD BLANK: 12892

Analysis Date/Time Analyst: 04/28/2009 16:02 WLV

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Benzene | ug/l | ND | | 1.0 |
| Ethylbenzene | ug/l | ND | | 1.0 |
| Toluene | ug/l | ND | | 1.0 |
| m,p-Xylene | ug/l | ND | | 1.0 |
| o-Xylene | ug/l | ND | | 1.0 |
| Xylenes, Total | ug/l | ND | | 1.0 |
| 1,4-Difluorobenzene (S) | % | 93.6 | | 70-130 |
| 4-Bromofluorobenzene (S) | % | 103 | | 70-130 |

LABORATORY CONTROL SAMPLE: 12893

Analysis Date/Time Analyst: 04/28/2009 14:59 WLV

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Benzene | ug/l | 20 | 18.2 | 90.8 | 70-130 |
| Ethylbenzene | ug/l | 20 | 18.0 | 89.8 | 70-130 |
| Toluene | ug/l | 20 | 18.5 | 92.5 | 70-130 |
| m,p-Xylene | ug/l | 40 | 36.7 | 91.8 | 70-130 |
| o-Xylene | ug/l | 20 | 18.1 | 90.3 | 70-130 |
| Xylenes, Total | ug/l | 60 | 54.8 | 91.3 | 70-130 |
| 1,4-Difluorobenzene (S) | % | | | 93.7 | 70-130 |
| 4-Bromofluorobenzene (S) | % | | | 104 | 70-130 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12894 12895 Original: H09040524006

MS Analysis Date/Time Analyst: 04/28/2009 19:11 WLV

MSD Analysis Date/Time Analyst: 04/28/2009 19:42 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/l | ND | 20 | 19.9 | 19.6 | 99.7 | 97.8 | 66-141 | 1.9 | 31 |
| Ethylbenzene | ug/l | 0.031 | 20 | 18.4 | 18.6 | 91.9 | 92.9 | 52-136 | 1.1 | 28 |
| Toluene | ug/l | 0.083 | 20 | 19.3 | 19.4 | 96.4 | 96.8 | 61-131 | 0.4 | 25 |
| m,p-Xylene | ug/l | 0.34 | 40 | 38.0 | 38.4 | 95.1 | 95.9 | 60-130 | 0.8 | 36 |
| o-Xylene | ug/l | ND | 20 | 18.7 | 18.8 | 93.4 | 94.1 | 64-130 | 0.7 | 30 |
| Xylenes, Total | ug/l | ND | 60 | 56.7 | 57.2 | 94.5 | 95.3 | 60-130 | 0.8 | 36 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12894 12895 Original: H09040524006

MS Analysis Date/Time Analyst: 04/28/2009 19:11 WLV

MSD Analysis Date/Time Analyst: 04/28/2009 19:42 WLV

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene (S) | % | 95 | | | | 92.7 | 90.9 | 70-130 | | 30 |
| 4-Bromofluorobenzene (S) | % | 105 | | | | 103 | 104 | 70-130 | | 30 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: HGPR/1056 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Preparation: 05/04/2009 12:00 by F_S

Associated Lab Samples: H09040462001 H09040462002 H09040524001 H09040524002 H09040524003 H09040524004 H09040524005 H09040524006 H09040524007 H09040629002

METHOD BLANK: 13484

Analysis Date/Time Analyst: 05/04/2009 14:59 F_S

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Mercury | mg/l | ND | | 0.000200 |

LABORATORY CONTROL SAMPLE: 13485

Analysis Date/Time Analyst: 05/04/2009 15:01 F_S

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Mercury | mg/l | 0.002 | 0.001931 | 96.5 | 80-120 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 13486 13487 Original: H09040524001

MS Analysis Date/Time Analyst: 05/04/2009 15:07 F_S

MSD Analysis Date/Time Analyst: 05/04/2009 15:10 F_S

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/l | ND | 0.002 | 0.001864 | 0.001948 | 93.2 | 97.4 | 75-125 | 4.4 | 20 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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# QUALITY CONTROL DATA

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

QC Batch: IC/1067 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H09040524001 H09040524002 H09040524003 H09040524004 H09040524005 H09040524006 H09040524007 H09050028001 H09050028002 H09050028003 H09050028004 H09050028005

METHOD BLANK: 13609

Analysis Date/Time Analyst: 05/05/2009 11:54 BDG

| Parameter | Units | Blank Result | Qualifiers | Reporting Limit |
|---|---|---|---|---|
| Chloride | mg/l | ND | | 0.500 |
| Fluoride | mg/l | ND | | 0.500 |

LABORATORY CONTROL SAMPLE: 13610

Analysis Date/Time Analyst: 05/05/2009 12:12 BDG

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Chloride | mg/l | 10 | 9.759 | 97.6 | 85-115 |
| Fluoride | mg/l | 10 | 10.05 | 100 | 85-115 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 13611 13612 Original: H09040524001

MS Analysis Date/Time Analyst: 05/05/2009 10:11 BDG

MSD Analysis Date/Time Analyst: 05/05/2009 10:29 BDG

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/l | 114 | 100 | 233.2 | 228.8 | 119 | 115 | 80-120 | 3.4 | 20 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 13613 13614 Original: H09040524002

MS Analysis Date/Time Analyst: 05/05/2009 13:07 BDG

MSD Analysis Date/Time Analyst: 05/05/2009 13:25 BDG

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/l | 66.6 | 100 | 172.6 | 175.1 | 106 | 109 | 80-120 | 2.8 | 20 |
| Fluoride | mg/l | 1.05 | 100 | 99.24 | 101.2 | 98.2 | 100 | 80-120 | 1.8 | 20 |

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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## Legend

(S) - Indicates analyte is a surrogate

| Qualifier | Qualifier Description |
|---|---|
| * | Recovery/RPD value outside QC limits |
| B | Analyte detected in the Method Blank |
| C | MTBE results were not confirmed by GCMS |
| D | Recovery out of range due to dilution |
| E | Results exceed calibration range |
| H | Exceeds holding time |
| I | Estimated value, between MDL and PQL (Florida) |
| J | Estimated value |
| JN | The analysis indicates the presence of an analyte |
| MI | Matrix Interference |
| N | Recovery outside of control limits |
| NC | Not Calculable (Sample Duplicate) |
| NC | Not Calculated - Sample concentration > 4 times the spike |
| P | Pesticide dual column results, greater then 25% |
| Q | Received past holding time |

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# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| H09040524001 | SVE-1 | SM 2540 C | WETS/1142 | | |
| H09040524002 | IW-2 | SM 2540 C | WETS/1142 | | |
| H09040524003 | IW-3 | SM 2540 C | WETS/1142 | | |
| H09040524004 | IW-4 | SM 2540 C | WETS/1142 | | |
| H09040524005 | IW-5 | SM 2540 C | WETS/1142 | | |
| H09040524006 | IW-7 | SM 2540 C | WETS/1142 | | |
| H09040524007 | DUP#1 | SM 2540 C | WETS/1142 | | |
| H09040524001 | SVE-1 | SW-846 3510C | EXTO/1258 | SW-846 8270C SIM | MSSV/1082 |
| H09040524002 | IW-2 | SW-846 3510C | EXTO/1258 | SW-846 8270C SIM | MSSV/1082 |
| H09040524003 | IW-3 | SW-846 3510C | EXTO/1258 | SW-846 8270C SIM | MSSV/1082 |
| H09040524004 | IW-4 | SW-846 3510C | EXTO/1258 | SW-846 8270C SIM | MSSV/1082 |
| H09040524005 | IW-5 | SW-846 3510C | EXTO/1258 | SW-846 8270C SIM | MSSV/1082 |
| H09040524006 | IW-7 | SW-846 3510C | EXTO/1258 | SW-846 8270C SIM | MSSV/1082 |
| H09040524007 | DUP#1 | SW-846 3510C | EXTO/1258 | SW-846 8270C SIM | MSSV/1082 |
| H09040524001 | SVE-1 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524002 | IW-2 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524003 | IW-3 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524004 | IW-4 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524005 | IW-5 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524006 | IW-7 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524007 | DUP#1 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524008 | MW-13 | SW-846 8015B DRO LVI | EXTO/1263 | SW-846 8015B DRO LVI | GCSV/1188 |
| H09040524001 | SVE-1 | SW-846 8015B GRO Gas | GCVW/1266 | SW-846 8015B GRO Gas | GCVW/1267 |
| H09040524002 | IW-2 | SW-846 8015B GRO Gas | GCVW/1266 | SW-846 8015B GRO Gas | GCVW/1267 |
| H09040524003 | IW-3 | SW-846 8015B GRO Gas | GCVW/1266 | SW-846 8015B GRO Gas | GCVW/1267 |
| H09040524007 | DUP#1 | SW-846 8015B GRO Gas | GCVW/1266 | SW-846 8015B GRO Gas | GCVW/1267 |
| H09040524001 | SVE-1 | SW-846 5030 | GCVW/1270 | SW-846 8021B | GCVW/1271 |
| H09040524001 | SVE-1 | SW-846 3010A | DIGM/1166 | SW-846 6010B | ICP/1080 |

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Fax: (713) 660-8975

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| H09040524002 | IW-2 | SW-846 3010A | DIGM/1166 | SW-846 6010B | ICP/1080 |
| H09040524003 | IW-3 | SW-846 3010A | DIGM/1166 | SW-846 6010B | ICP/1080 |
| H09040524004 | IW-4 | SW-846 3010A | DIGM/1166 | SW-846 6010B | ICP/1080 |
| H09040524005 | IW-5 | SW-846 3010A | DIGM/1166 | SW-846 6010B | ICP/1080 |
| H09040524006 | IW-7 | SW-846 3010A | DIGM/1166 | SW-846 6010B | ICP/1080 |
| H09040524007 | DUP#1 | SW-846 3010A | DIGM/1166 | SW-846 6010B | ICP/1080 |
| H09040524002 | IW-2 | SW-846 8015B GRO Gas | GCVW/1275 | SW-846 8015B GRO Gas | GCVW/1277 |
| H09040524004 | IW-4 | SW-846 8015B GRO Gas | GCVW/1275 | SW-846 8015B GRO Gas | GCVW/1277 |
| H09040524005 | IW-5 | SW-846 8015B GRO Gas | GCVW/1275 | SW-846 8015B GRO Gas | GCVW/1277 |
| H09040524006 | IW-7 | SW-846 8015B GRO Gas | GCVW/1275 | SW-846 8015B GRO Gas | GCVW/1277 |
| H09040524008 | MW-13 | SW-846 8015B GRO Gas | GCVW/1275 | SW-846 8015B GRO Gas | GCVW/1277 |
| H09040524001 | SVE-1 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1101 |
| H09040524002 | IW-2 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1101 |
| H09040524003 | IW-3 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1101 |
| H09040524004 | IW-4 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1101 |
| H09040524005 | IW-5 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1101 |
| H09040524006 | IW-7 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1101 |
| H09040524007 | DUP#1 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1101 |
| H09040524001 | SVE-1 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1119 |
| H09040524002 | IW-2 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1119 |
| H09040524003 | IW-3 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1119 |
| H09040524004 | IW-4 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1119 |
| H09040524005 | IW-5 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1119 |
| H09040524006 | IW-7 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1119 |
| H09040524007 | DUP#1 | SW-846 3010A | DIGM/1168 | SW-846 6020A | ICPM/1119 |
| H09040524007 | DUP#1 | SW-846 5030 | GCVW/1278 | SW-846 8021B | GCVW/1279 |
| H09040524008 | MW-13 | SW-846 5030 | GCVW/1278 | SW-846 8021B | GCVW/1279 |
| H09040524002 | IW-2 | SW-846 5030 | GCVW/1280 | SW-846 8021B | GCVW/1281 |
| H09040524003 | IW-3 | SW-846 5030 | GCVW/1280 | SW-846 8021B | GCVW/1281 |
| H09040524004 | IW-4 | SW-846 5030 | GCVW/1280 | SW-846 8021B | GCVW/1281 |
| H09040524005 | IW-5 | SW-846 5030 | GCVW/1280 | SW-846 8021B | GCVW/1281 |

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Fax: (713) 660-8975

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H09040524 : Line NM1-1 Project Number: COP - Line NM1-1

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **H09040524006** | **IW-7** | SW-846 5030 | GCVW/1280 | SW-846 8021B | GCVW/1281 |
| **H09040524001** | **SVE-1** | SW-846 7470A | HGPR/1056 | SW-846 7470A | HG/1057 |
| **H09040524002** | **IW-2** | SW-846 7470A | HGPR/1056 | SW-846 7470A | HG/1057 |
| **H09040524003** | **IW-3** | SW-846 7470A | HGPR/1056 | SW-846 7470A | HG/1057 |
| **H09040524004** | **IW-4** | SW-846 7470A | HGPR/1056 | SW-846 7470A | HG/1057 |
| **H09040524005** | **IW-5** | SW-846 7470A | HGPR/1056 | SW-846 7470A | HG/1057 |
| **H09040524006** | **IW-7** | SW-846 7470A | HGPR/1056 | SW-846 7470A | HG/1057 |
| **H09040524007** | **DUP#1** | SW-846 7470A | HGPR/1056 | SW-846 7470A | HG/1057 |
| **H09040524001** | **SVE-1** | EPA 300.0 | IC/1067 | | |
| **H09040524002** | **IW-2** | EPA 300.0 | IC/1067 | | |
| **H09040524003** | **IW-3** | EPA 300.0 | IC/1067 | | |
| **H09040524004** | **IW-4** | EPA 300.0 | IC/1067 | | |
| **H09040524005** | **IW-5** | EPA 300.0 | IC/1067 | | |
| **H09040524006** | **IW-7** | EPA 300.0 | IC/1067 | | |
| **H09040524007** | **DUP#1** | EPA 300.0 | IC/1067 | | |

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Fax: (713) 660-8975

# Sample Receipt Checklist

| | | | |
|---|---|---|---|
| WorkOrder: | H09040524 | Received By | LOG |
| Date and Time | 04/22/2009 10:00 | Carrier Name: | FEDEXS |
| Temperature: | 2.5°C | Chilled By: | Water Ice |

| | | |
|---|---|---|
| 1. | Shipping container/cooler in good condition? | YES |
| 2. | Custody seals intact on shipping container/cooler? | YES |
| 3. | Custody seals intact on sample bottles? | Not Present |
| 4. | Chain of custody present? | YES |
| 5. | Chain of custody signed when relinquished and received? | YES |
| 6. | Chain of custody agrees with sample labels? | YES |
| | Client did not request for any analysis for received TRIP BLANKS. Logged in on hold. | |
| 7. | Samples in proper container/bottle? | YES |
| 8. | Samples containers intact? | YES |
| 9. | Sufficient sample volume for indicated test? | YES |
| 10. | All samples received within holding time? | YES |
| 11. | Container/Temp Blank temperature in compliance? | YES |
| 12. | Water - VOA vials have zero headspace? | YES |
| 13. | Water - Preservation checked upon receipt(except VOA*)? | YES |

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

**SPL, Inc.**
Analysis Request & Chain of Custody Record

H09040524

| SPL Workorder No. | 330404 |
|---|---|
| H09040524 | page 1 of 4 |

Client Name: Terra Tech
Address: 1910 N Big Spring St
City: Midland State: TX Zip: 79701
Phone/Fax: (432) 682-4559
Client Contact: Greg Pope Email: greg.pope@terra-tech.com
Project Name/No.: NM1-1
Site Name: NM
Site Location: Hobbs, NM
Invoice To: Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: BTEX 8021 | GRO 8015 | DRO 8015 | Cl 300.0, Alkalinity 310.1, TDS 160.1 | PAH - 8270 | VOC metals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVE-1 | 4/21/09 | 0755 | | X | W | G | 40 | 1 | 6 | X | X | | | | | | | | |
| SVE-1 | | | | | | A | 1 | X | 2 | | | | | X | | | | | |
| SVE-1 | | | | | | A | X | 1 | 2 | | | X | | | | | | | |
| SVE-1 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | | |
| SVE-1 | | | | | | P | X | X | 1 | | | | X | | | | | | |
| IW-2 | | 0823 | | | | G | 40 | 1 | 6 | X | X | | | | | | | | |
| IW-2 | | | | | | A | 1 | X | 2 | | | | | X | | | | | |
| IW-2 | | | | | | A | 1L | 1 | 2 | | | X | | | | | | | |
| IW-2 | | | | | | P | X | 2 | 1 | | | | | | X | | | | |
| IW-2 | | | | | | P | 1 | X | 1 | | | | X | | | | | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 2.5C

**Requested TAT**
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☐ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

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):

| | | | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Thailand | date 4/21/09 | time 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 4/22/09 | time 1000 | 6. Received by Laboratory: |

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# SPL, Inc.

## Analysis Request & Chain of Custody Record

SPL Workorder No. 316547 (H09040524)

page 2 of 4

Client Name: Trihon Trail

Address: 1910 N Big Spring St

Phone/Fax:

Client Contact: Email:

Project Name/No.:

Site Name:

Site Location:

Invoice To: Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil SL=sludge X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: BTEX 8021 | GRO 8015 | DRO 8015 | 01 (gas) Pesticides (8081) TRS | PAH - 8270 | LUFT Metals 6010 TCL | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-3 | 4/21/09 | 0851 | | X | W | G | 40 | 1 | 6 | X | X | | | | | | | |
| IW-3 | | | | | | A | 1 | X | 2 | | | | | X | | | | |
| IW-3 | | | | | | A | X | 1 | 2 | | | X | | | | | | |
| IW-3 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | |
| IW-3 | | | | | | P | X | X | 1 | | | | X | | | | | |
| IW-4 | | 0925 | | | | G | 40 | 1 | 6 | X | X | | | | | | | |
| IW-4 | | | | | | A | 1 | X | 2 | | | | | X | | | | |
| IW-4 | | | | | | A | X | 1 | 2 | | | X | | | | | | |
| IW-4 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | |
| IW-4 | | | | | | P | X | X | 1 | | | | X | | | | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N

Ice? ☐ Y ☐ N

Temp: 2.5C

### 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 ☐

Special Detection Limits (specify):

PM review (initial):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Trail | 4/21/09 | 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 4/22/09 | time 1000 | 6. Received by Laboratory: |

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Scott, LA 70583 (337) 237-4775

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# SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 330406

H090405 24

page 3 of 4

Client Name: Terra Tech

Address: 1910 N. Big Spring St

City: Midland State: TX Zip: 79701

Phone/Fax: (432) 687-4559

Client Contact: Greg Pope Email: greg.pope@terratech.com

Project Name/No.: NM1-1

Site Name:

Site Location: Hobbs, NM

Invoice To: Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: BTEX 8021 | GRO 8015 | DRO 8015 | Cl 300.0 TDS 2.5 Perch 300.0 | PAH-8270 | WQCC Metals 4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-5 | 4/21/09 | 0955 | | X | W | G | 40 | 1 | 6 | X | X | | | | | | | |
| IW-5 | | | | | | A | 1 | X | 2 | | | | | X | | | | |
| IW-5 | | | | | | A | X | 1 | 2 | | | X | | | | | | |
| IW-5 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | |
| IW-5 | | | | | | P | X | X | 1 | | | | X | | | | | |
| IW-7 | | 1017 | | | | G | 40 | 1 | 6 | X | X | | | | | | | |
| IW-7 | | | | | | A | 1 | X | 2 | | | | | X | | | | |
| IW-7 | | | | | | A | X | 1 | 2 | | | X | | | | | | |
| IW-7 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | |
| IW-7 | | | | | | P | X | X | 1 | | | | X | | | | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N

Ice? ☐ Y ☐ N

Temp: 3.0c

## Requested TAT

☐ 1 Business Day ☐ Contract

☐ 2 Business Days ☐ Standard

☐ 3 Business Days

☐ Other

Rush TAT requires prior notice

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):

| | | | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Tirsucott | date 4/21/09 | time 1536 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 4/22/09 | time 1000 | 6. Received by Laboratory: |

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Scott, LA 70583 (337) 237-4775

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Traverse City MI 49686 (231) 947-5777

# SPL, Inc.

## Analysis Request & Chain of Custody Record

SPL Workorder No.: 316491

H09040524

page 4 of 4

Client Name: Tetra Tech

Address: 1910 N. Big Spring St

Phone/Fax: (432) 682-4559

Client Contact: Greg Pope Email: greg.pope@tetratech.com

Project Name/No.: NM1-1

Site Name:

Site Location: Hobbs, NM

Invoice To: Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil SL=sludge O=oil X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: BTEX 8021 | GRO 8015 | DRO 8015 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-13 | 4/21/09 | 1515 | | X | W | V | 40 | 1 | 4 | X | X | | | | | | | |
| MW-13 | 4/21/09 | 1515 | | X | W | A | X | X | 2 | | | X | | | | | | |
| Trip Blank | 4/21/09 | 1530 | | X | W | V | 40 | X | 4 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N

Ice? Y N

Temp: 3.5°C

**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 ☐

Special Detection Limits (specify):

PM review (initial):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Trevino | 4/21/09 | 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 4/22/09 | time 0000 | 6. Received by Laboratory: |

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Scott, LA 70583 (337) 237-4775

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

# SPL, Inc.

Analysis Request & Chain of Custody Record

H09040524

SPL Workorder No. H09040524 — 330404

page 1 of 4

Client Name: Tetra Tech
Address: 1910 N Big Spring St
City: Midland State: TX Zip: 79705 IRED
Phone/Fax: (432) 682-4559
Client Contact: Greg Pope Email: greg.pope@tetratech.com
Project Name/No.: NM1-1
Site Name: RM
Site Location: Hobbs, NM
Invoice To: Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | BTEX 8021 | GRO 8015 | DRO 8015 | Cl 300.0, Fluoride 300.00 TDS 25 | PAH - 8270 | WQC Metals 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVE-1 | 4/21/09 | 0755 | | X | W | G | 40 | 1 | 6 | X | X | | | | |
| SVE-1 | | | | | | A | 1 | X | 2 | | | | | X | |
| SVE-1 | | | | | | A | X | 1 | 2 | | | X | | | |
| SVE-1 | | | | | | P | 16 | 2 | 1 | | | | | | X |
| SVE-1 | | | | | | P | X | X | 1 | | | | X | | |
| IW-2 | | 0823 | | | | G | 40 | 1 | 6 | X | X | | | | |
| IW-2 | | | | | | A | 1 | X | 2 | | | | | X | |
| IW-2 | | | | | | A | 1L | 1 | 2 | | | X | | | |
| IW-2 | | | | | | P | X | 2 | 1 | | | | | | X |
| IW-2 | | | | | | P | 1 | X | 1 | | | | X | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 2.5C

## Requested TAT

☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☐ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

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):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Thickstun | 4/21/09 | 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 4/22/09 | time 1000 | 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

# SPL, Inc.

## Analysis Request & Chain of Custody Record

SPL Workorder No. 316547

1709040524

page 2 of 4

Client Name: Tetra Tech

Address: 1910 N Big Spring St

Phone/Fax:

Client Contact: Email:

Project Name/No.:

Site Name:

Site Location:

Invoice To: Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil SL=sludge X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: BTEX 8021 | GRO 8015 | DRO 8015 | Cl (Geo) TDS Florides (300.0) | PAH - 8270 | RCRA Metals TCL | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-3 | 4/21/09 | 0851 | | X | W | G | 40 | 1 | 4 | X | X | | | | | | | |
| IW-3 | | | | | | A | 1 | X | 2 | | | | | X | | | | |
| IW-3 | | | | | | A | X | 1 | 2 | | | X | | | | | | |
| IW-3 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | |
| IW 3 | | | | | | P | X | X | 1 | | | | X | | | | | |
| IW-4 | | 0925 | | | | G | 40 | 1 | 4 | X | X | | | | | | | |
| IW-4 | | | | | | A | 1 | X | 2 | | | | | X | | | | |
| IW-4 | | | | | | A | X | 1 | 2 | | | X | | | | | | |
| IW-4 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | |
| IW-4 | | | | | | P | X | X | 1 | | | | X | | | | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N

Ice? ☑ Y ☐ N

Temp: 2.5C

**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 ☐

Special Detection Limits (specify):

PM review (initial):

| | date | time | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Tidsworth | 4/21/09 | 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | 4/22/09 | 1000 | 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

# SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 330406

H090405Z4

page 3 of 4

Client Name: Tetra Tech

Address: 1910 N. Big Spring St

City Midland State TX Zip 79701-RED

Phone/Fax: (432) 682-4559

Client Contact: Greg Pope Email: greg.pope@tetratech.com

Project Name/No.: NM1-1

Site Name:

Site Location: Hobbs, NM

Invoice To: Ph:

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: BTEX 8021 | GRO 8015 | DRO 8015 | Cl 300.0 TPS 25 Fluor 300.0 | TPH-8270 | WQCC Metals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IW-5 | 4/21/09 | 0955 | | X | W | G | 40 | 1 | 6 | X | X | | | | | | | | |
| IW-5 | | | | | | A | 1 | X | 2 | | | | | X | | | | | |
| IW-5 | | | | | | A | X | 1 | 2 | | | X | | | | | | | |
| IW-5 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | | |
| IW-5 | | | | | | P | X | X | 1 | | | | X | | | | | | |
| IW-7 | | 1017 | | | | G | 40 | 1 | 6 | X | X | | | | | | | | |
| IW-7 | | | | | | A | 1 | X | 2 | | | | | X | | | | | |
| IW-7 | | | | | | A | X | 1 | 2 | | | X | | | | | | | |
| IW-7 | | | | | | P | 16 | 2 | 1 | | | | | | X | | | | |
| IW-7 | | | | | | P | X | X | 1 | | | | X | | | | | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N

Ice? ☐ Y ☐ N

Temp: 3.0c

## Requested TAT

☐ 1 Business Day ☐ Contract

☐ 2 Business Days ☐ Standard

☐ 3 Business Days

☐ Other _____

Rush TAT requires prior notice

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):

| | | | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Tidwell | date 4/21/09 | time 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 4/23/09 | time 1000 | 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

# SPL, Inc.

## Analysis Request & Chain of Custody Record

SPL Workorder No.: H09040524 — 316491

page 1 of 1

| | |
|---|---|
| Client Name: | Tetra Tech |
| Address: | 1910 N. Big Spring St |
| Phone/Fax: | (432) 682-4559 |
| Client Contact: | Greg Pope — Email: greg.pope@tetratech.com |
| Project Name/No.: | NM1-1 |
| Site Name: | |
| Site Location: | Hobbs, NM |
| Invoice To: | Ph: |

| SAMPLE ID | DATE | TIME | comp | grab | matrix (W=water S=soil O=oil SL=sludge X=other) | bottle (P=plastic A=amber glass G=glass V=vial X=other) | size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other) | pres. (1=HCl 2=HNO3 3=H2SO4 X=other) | Number of Containers | Requested Analysis: BTEX 8021 | GRO 8015 | DRO 8015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-13 | 4/21/09 | 1515 | | X | W | V | 40 | 1 | 6 | X | X | |
| MW-13 | 4/21/09 | 1515 | | X | W | A | X | X | 2 | | | X |
| Trip Blank | 4/21/09 | 1530 | | X | W | V | 40 | X | 4 | | | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 3.5 C

### 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 ☐

Special Detection Limits (specify):

PM review (initial):

| | | | |
|---|---|---|---|
| 1. Relinquished by Sampler: Johnny Tittsworth | date 4/21/09 | time 1530 | 2. Received by: |
| 3. Relinquished by: | date | time | 4. Received by: |
| 5. Relinquished by: | date 4/22/09 | time 1000 | 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

# 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
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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JUN 25 2009
HOBBSOCD

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-32541

## 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 June 29, 2009

**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 66 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 ConocoPhillips, Inc. | Transporter Pate Trucking | |
| By Greg W. Pope (Tetra Tech, Inc.) | Address 3800 S. Eunice Hwy, Hobbs, NM 88240 | |
| Title Project Manager | Signature Joe Morris | |
| E-mail Address greg.pope@tetratech.com | E-mail Address | |
| Date June 22, 2009 | Title Dispatcher | Date June 22, 2009 |

**OIL CONSERVATION DIVISION**

Approved By Patricia Martinez Title Ex. Secretary Date 6-25-09

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) |

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

RECEIVED
OCT 02 2009
HOBBSOCD

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-32707

# 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 5, 2009

**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 100 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 ConocoPhillips, Inc. | Transporter Pate Trucking | |
| By Greg W. Pope (Tetra Tech, Inc.) | Address 3800 S. Eunice Hwy, Hobbs, NM 88240 | |
| Title Project Manager | Signature Joe Morris | |
| E-mail Address greg.pope@tetratech.com | E-mail Address | |
| Date September 30, 2009 | Title Dispatcher | Date Sept 30, 2009 |

**OIL CONSERVATION DIVISION**

Approved By Patricia Martz Title Ex. Secretary Date 10-2-09

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) |

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

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DEC 17 2009
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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-32802

## 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 December 9, 2009

**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 65 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 ConocoPhillips, Inc. | Transporter Pate Trucking | |
| By Greg W. Pope (Tetra Tech, Inc.) | Address 3800 S. Eunice Hwy, Hobbs, NM 88240 | |
| Title Project Manager | Signature Joe Morris | |
| E-mail Address greg.pope@tetratech.com | E-mail Address | |
| Date December 8, 2009 | Title Dispatcher | Date Dec 8, 2009 |

**OIL CONSERVATION DIVISION**

Approved By Patricia Martin Title Env. Specialist Date 12-1-09

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) |