AP - 010

2010 AGWMR

04/12/2011

Thomas (Tom) Wynn
Site Manager
Risk Management & Remediation

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ConocoPhillips

April 12, 2011

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 2010 THROUGH FEBRUARY 2011
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 2010 through February 2011 relating to the operation, maintenance and monitoring of the remediation system, crude oil recovery and groundwater disposal operations, quarterly groundwater monitoring, sampling and analyses, and the installation of four new crude oil recovery wells, including connection of the new wells to the existing remediation system and startup operations.

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

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ANNUAL MONITORING, OPERATION AND MAINTENANCE REPORT

MARCH 2010 THROUGH FEBRUARY 2011

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

April 12, 2011

TETRA TECH, INC.

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

April 12, 2011

Mr. Glenn Von Gonten
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 2010 THROUGH FEBRUARY 2011
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. This report is a summary of the following activities performed from March 2010 through February 2011:

- New Crude Oil Recovery Well Installation
- Groundwater Monitoring and Sampling
- Free Petroleum Hydrocarbon Gauging, Recovery and Disposal
- Remediation System Operation and Maintenance

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.

During December 2010 and January 2011, four (4) new crude oil recovery wells were installed at the Site, and connected to the existing remediation system. Description of these activities is presented in this report.

This report also presents four quarters of groundwater monitoring data collected in April, July and October 2010, and January 2011.

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. Job Safety Analyses (JSAs) were performed each day prior to the start of work during the new recovery well installation and system connection activities.

NEW CRUDE OIL RECOVERY WELL INSTALLATION

Beginning on December 1, 2010, four (4) new crude oil recovery wells were installed at the Site. Prior to commencement of field activities, well permits were submitted to and approved by the New Mexico State Engineer's Office in Roswell, New Mexico, New Mexico One-Call notifications were completed, and a Letter of Intent to install the wells was submitted to the NMOCD. The wells were drilled, completed and developed by Straub Corporation of Stanton, Texas. Alliance Maintenance and Services of Houston, Texas, performed the installation of the recovery pumps, controller, wiring, trenching and plumbing. The four new recovery wells (RW-1, RW-2, RW-3, and RW-4; Figure 1) were installed in accordance with the following general parameters.

- Before drilling, an air knife was used to clear each boring location of existing subsurface utilities or piping structures. At each location, undisturbed, native caliche rock was encountered at approximately 6 inches below ground surface.
- Using a SpeedStar 30K air rotary drilling rig, RW-1 was drilled to a total depth (TD) of 60 feet below ground surface (fbgs) and plugged back to 52 fbgs. RW-2, RW-3 and RW-4 were drilled to a TD of 60 fbgs.

- The wells were set using 6-inch diameter Schedule 40 polyvinyl chloride (PVC) casing with 30 feet of 0.020-inch screen extending to the bottom of each well, and blank PVC casing extending from the top of the screened interval to approximately 3 feet above ground surface.
- Sand was packed from the bottom of each well to approximately 1-3 feet above the well screen with 8/16 silica sand.
- Bentonite was used to seal each well from the top of sand pack to approximately 2 fbgs.
- The wells were cemented from the top of the bentonite seal to ground surface.
- The wells were completed at the surface with upright steel security casing and a 4X4-foot cement pad.
- Well development was performed by bailing each well using a Smeal well service unit, until the water was relatively clear, based on the observation of the field geologist.
- Crude oil recovery pumps, consisting of new Xitech Model ADJ1015H 4-inch pneumatic High Performance Smart Skimmers with adjustable extended travel floats were installed in each well.
- The four new recovery well pumps and the seven existing recovery well pumps were connected to a new Xitech Model 5500E 16-station programmable pneumatic pump controller, allowing for individual control of each of the pumps.
- Crude oil return and air supply tubing was connected from each new well to the existing crude oil recovery system utilizing 2-inch diameter PVC secondary containment pipe set in subsurface trenches.
- Each new well was fitted with a 6-inch diameter well cap assembly for sealed connection of the tubing to the downhole skimmer pumps.
- A new Xitech Model 401 Tank Shutoff for the 5500E controller was installed in the existing crude oil storage tank at the Site.
- The new recovery wells were surveyed for latitude, longitude, and elevation with respect to area datum by a New Mexico Registered Professional Surveyor.

Copies of the New Mexico State Engineer's approved well permits, submitted well drillers logs, surveyors log, and well boring logs are included in Appendix A.

GROUNDWATER MONITORING AND SAMPLING

Quarterly groundwater monitoring and sampling activities were conducted at the Site on April 26 and 27, July 26 and 27, and October 25 and 26, 2010, and January 24 and 25, 2011. Accessible monitoring, recovery and remediation wells were measured for groundwater elevations prior to the sampling events. Wells IW-2, IW-3, IW-4, IW-5, IW-7, and SVE-1 were sampled during all four quarterly sampling events. Well MW-13 was sampled during the July and October 2010 events only due to very low water levels in the well during April 2010 and January 2011. 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 2010 were also analyzed for New Mexico Water Quality Control Commission (WQCC) metals by Methods 6010B/6020A/7470A/E300.0, and polynuclear aromatic hydrocarbons (PAHs) by Method 8270C 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 0.0041 feet per foot (ft/ft). Groundwater elevations show an overall decreasing trend after peaking during the January 2005 recharge event approximately five years ago. A general increase in water levels was noted during July and October 2010, but the decreasing trend resumed during January 2011. Hydrographs prepared for selected Site wells are included in Appendix B.

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 C. 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 IW-3, IW-4 and SVE-1 reported non-detect for BTEX constituents during all

four sampling events. IW-2 reported a detection of xylenes at the laboratory reporting limit of 1.0 micrograms per liter (µg/L) during October 2010. IW-5 reported detections of various BTEX constituents slightly above the laboratory reporting limits during each of the four sampling events. IW-5 reported benzene at 1.4 µg/L (April 2010) and 1.2 µg/L (October 2010), toluene at 1.2 µg/L (April and July 2010), 1.1 µg/L (October 2010) and 1.3 µg/L (January 2011), and xylenes at 1.7 µg/L (July 2010), 1.4 µg/L (October 2010) and 1.5 µg/L (January 2011). IW-7 reported xylenes slightly above the laboratory reporting limits during April 2010 (1.4 µg/L), July 2010 (1.2 µg/L in the duplicate sample) and October 2010 (1.0 µg/L in the duplicate sample). At monitoring well MW-13, samples collected during July and October 2010 reported benzene at 89 and 270 µg/L, ethylbenzene at 10 and 52 µg/L and xylenes at 5.4 and 31 µg/L, respectively. Concentrations of TPH show varying responses in the individual wells, as indicated on the groundwater analytical data graphs included in Appendix B. The highest concentration of TPH-GRO was reported in MW-13 at 0.90 milligrams per liter (mg/L) during October 2010. The highest concentration of TPH-DRO was reported in IW-7 at 85 mg/L (86 mg/L in the duplicate sample) during April 2010. Results of the April 2010 WQCC analysis (Table 2d) reported dissolved metals at naturally occurring background concentrations, except for iron reported above WQCC Standards in IW-5 at 3.34 mg/L. PAH analyses reported only 1-methylnaphthalene above WQCC Standards at 48 µg/L (51 µg/L in the duplicate sample) in 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 2010, and January 2011 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 2010 monitoring event showed a maximum measured thickness of 3.79 feet in MW-1 (Figure 4a). LPH measurements in July 2010 showed a maximum LPH thickness of 3.48 feet, also in MW-1 (Figure 4b). The LPH thickness measurements collected in October 2010 showed a maximum thickness of 3.02 feet in MW-6 (Figure 4c). The LPH measurements collected in January 2011 (Figure 4d) included the four new recovery wells, and showed maximum thicknesses of 4.69 feet in MW-1 and 4.25 feet in RW-2. 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, coupled with the fluctuating groundwater levels at the Site. Depiction of the responses of LPH plume thickness and groundwater level elevation over time is shown on the hydrographs in Appendix B.

FREE PETROLEUM HYDROCARBON RECOVERY

The pneumatic recovery system consists of Durham Geo F.A.P. Plus skimmer pumps installed in wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8, and Xitech Model ADJ1015H skimmer pumps installed in the new recovery wells RW-1, RW-2, RW-3 and RW-4, as previously discussed. 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. During January through December 2010, 36 barrels (bbls) of crude oil and 236 bbls of groundwater were recovered. With the installation of the four new recovery wells and controller for all the recovery wells, and since startup on January 3, 2011, 42 bbls of crude oil and only 38 bbls of groundwater have been recovered through February 2011. This increased recovery of crude oil and decreased groundwater recovery is expected to continue or be enhanced with further optimization and adjustment to the system. From April 20, 2002 to February 15, 2011, the system has recovered approximately 1,354 bbls of crude oil.

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[2]. 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 B) 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. The recovery of crude oil is also being greatly enhanced due to the operation of the four new recovery wells and controller for all the recovery wells, as previously discussed.

GROUNDWATER DISPOSAL ACTIVITIES

On April 20, 2010, approximately 80 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 August 16, 2010, approximately 60 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 November 1, 2010, approximately 60 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.

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[2] 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.

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

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:

- Four new crude oil recovery wells were completed at the Site in December 2010 and a new pneumatic pump controller was installed, allowing for individual control of each of the new and existing recovery wells. The new recovery wells and controller were brought into service on January 3, 2011.
- 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 compared to previous years.

- Groundwater levels measured during the recent sampling events show they peaked in January 2005 and are in a decreasing trend. A general increase in water levels was noted during July and October 2010, but the decreasing trend resumed during January 2011. Groundwater flow direction during all four quarterly events was generally to the south-southeast at an average gradient ranging from 0.0038 to 0.0041 ft/ft.

- The LPH plume shows a general increase in thickness during the four reporting quarters as the plume responds to the overall decreases in groundwater levels. The variances of LPH thickness measured in the crude oil recovery wells is in response to the crude oil extraction and fluctuating rates of crude oil recovery in those wells.

- 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 April 20, 2002 to February 15, 2011, the crude oil recovery system has recovered approximately 1,354 bbls of crude oil. During January through December 2010, 36 bbls of crude oil and 236 bbls of groundwater were recovered. With the installation of the four new recovery wells and controller for all the recovery wells, and since startup on January 3, 2011, 42 bbls of crude oil and only 38 bbls of groundwater have been recovered through February 2011. This increased recovery of crude oil and decreased groundwater recovery is expected to continue or be enhanced with further optimization and adjustment to the system.

- The requirement to analyze groundwater samples from the Site annually for WQCC metals and PAH was completed and will continue as necessary. PAH analyses reported only 1-methylnaphthalene 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.

TETRA TECH, INC.

- 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:

- During previous discussion with Mr. Von Gonten (NMOCD-Santa Fe) on April 19, 2010, Tetra Tech forwarded a verbal proposal to amend the current quarterly groundwater monitoring schedule to a semi-annual monitoring schedule, based on the extensive amount of data existing from approximately 7 years of quarterly groundwater sampling. In response, Mr. Von Gonten stated that he would like to see a proposal to this effect that includes installing additional recovery wells to expedite product recovery and provisions to perform groundwater sampling at all the recovery wells once per year for indicative parameters. Based on the fact that four new crude oil recovery wells have now been installed at the Site, it is recommended that a proposal be presented to the NMOCD to change the groundwater monitoring schedule from quarterly to semi-annual sampling, including yearly groundwater sampling at all the recovery wells.
- Continue the enhanced maintenance schedule on the crude oil skimmer system and further optimization and adjustments to the new crude oil recovery wells 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.

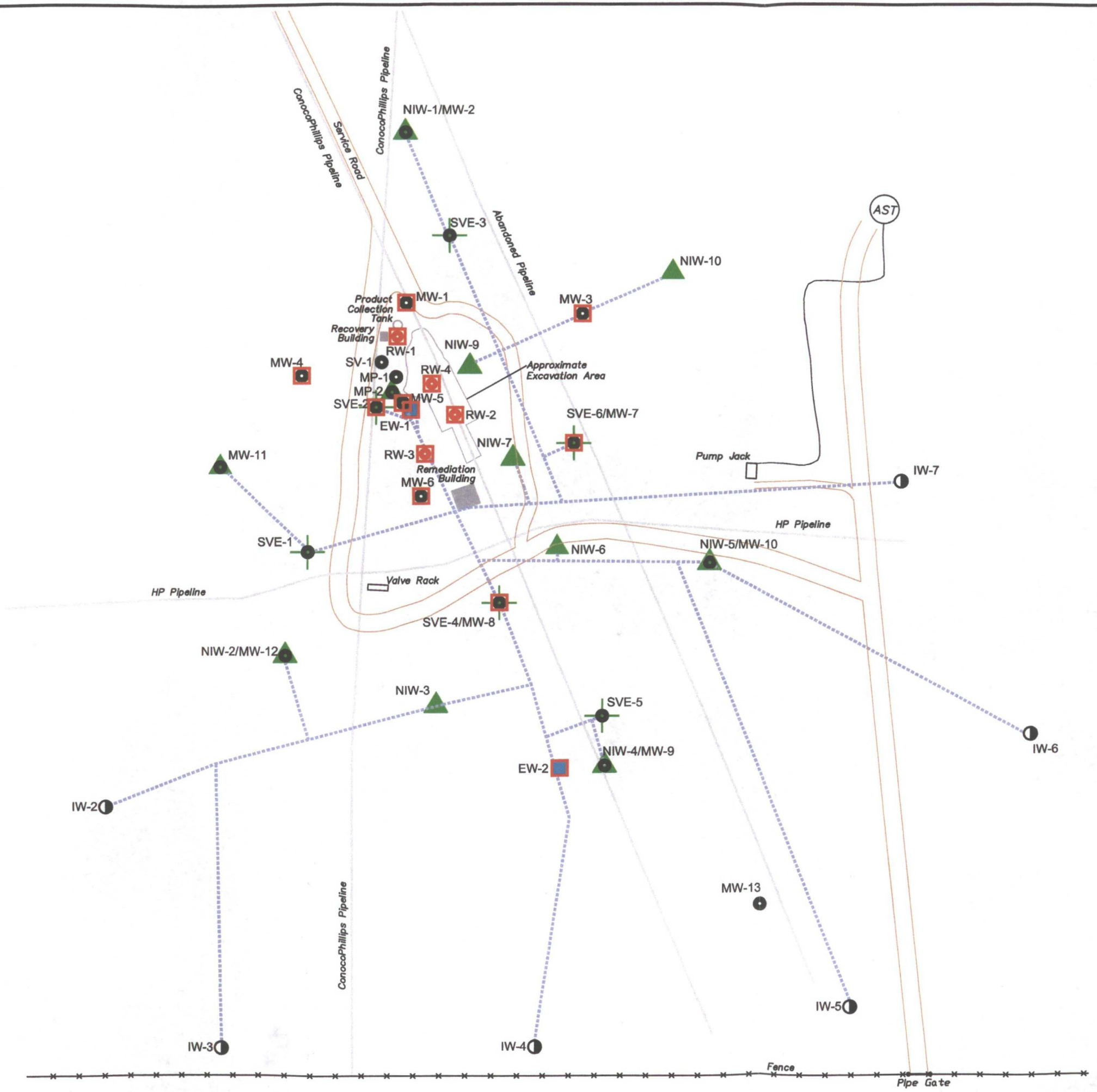
Should you have any questions or comments upon review of this report, please contact Mr. Tom Wynn at (918) 661-0310 or myself at (432) 682-4559.

Sincerely,
TETRA TECH

Greg W. Pope, P.G.
Project Manager

FIGURES

Figure 1	Site Map
Figure 2a	Groundwater Contour Map – April 2010
Figure 2b	Groundwater Contour Map – July 2010
Figure 2c	Groundwater Contour Map – October 2010
Figure 2d	Groundwater Contour Map – January 2011
Figure 3a	Summary of Groundwater Analytical Results – April 2010
Figure 3b	Summary of Groundwater Analytical Results – July 2010
Figure 3c	Summary of Groundwater Analytical Results – October 2010
Figure 3d	Summary of Groundwater Analytical Results – January 2011
Figure 4a	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – April 2010
Figure 4b	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – July 2010
Figure 4c	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – October 2010
Figure 4d	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – January 2011



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
- RW-1 — New Product Recovery Well Location & Designation
- Alignment of Conveyance Piping Corridor

N

0 120 240

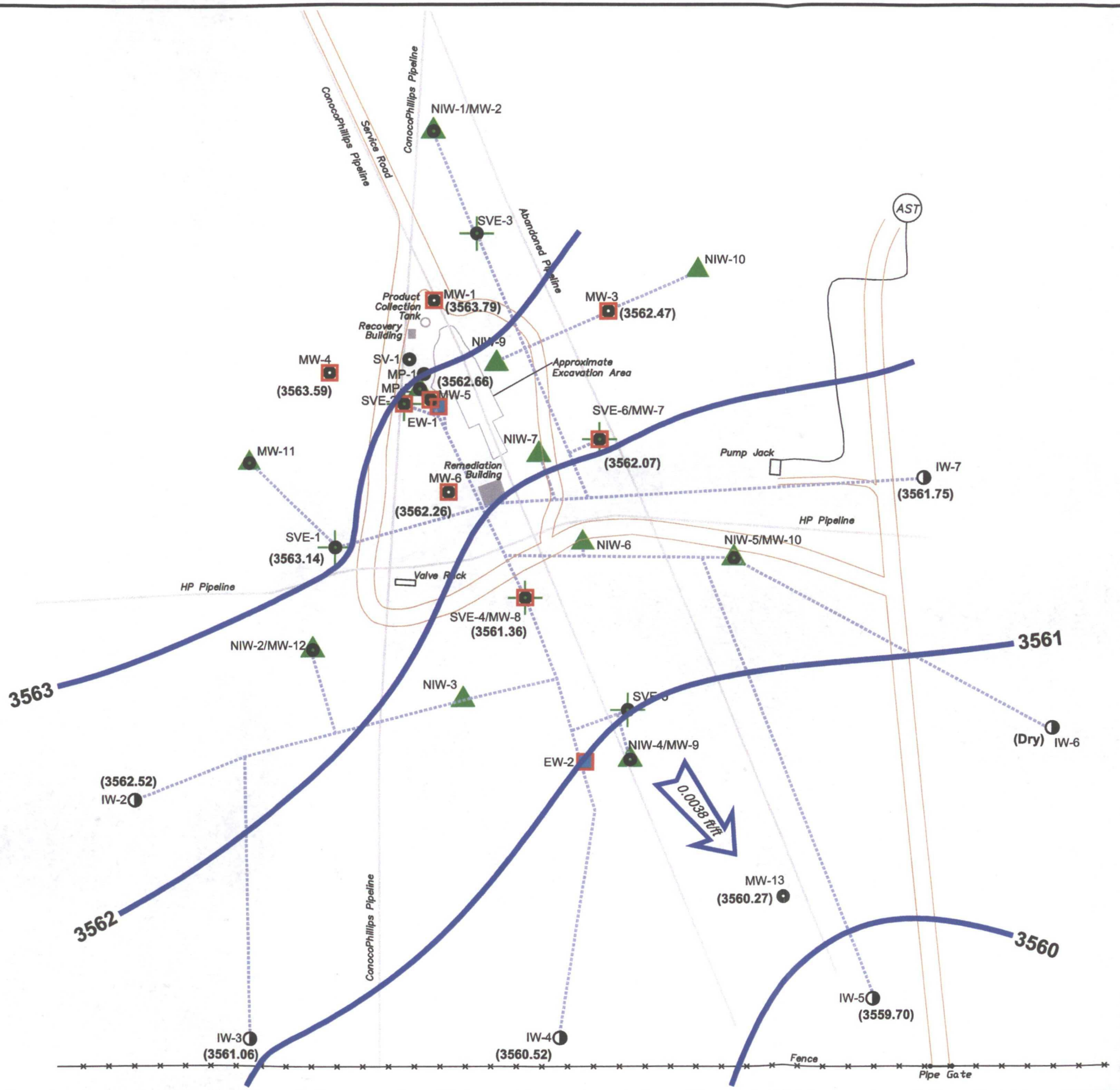
Scale (ft)

FIGURE 1 : SITE MAP

ConocoPhillips

TETRA TECH, INC.

LINE NM 1-1	DATA COLLECTED : JAN 24, 2011
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 114-6400786 MODIFIED BY : GWP DATE MODIFIED : 03/24/2011
	ACAD File : NM1_1 Site Map.dwg



LEGEND

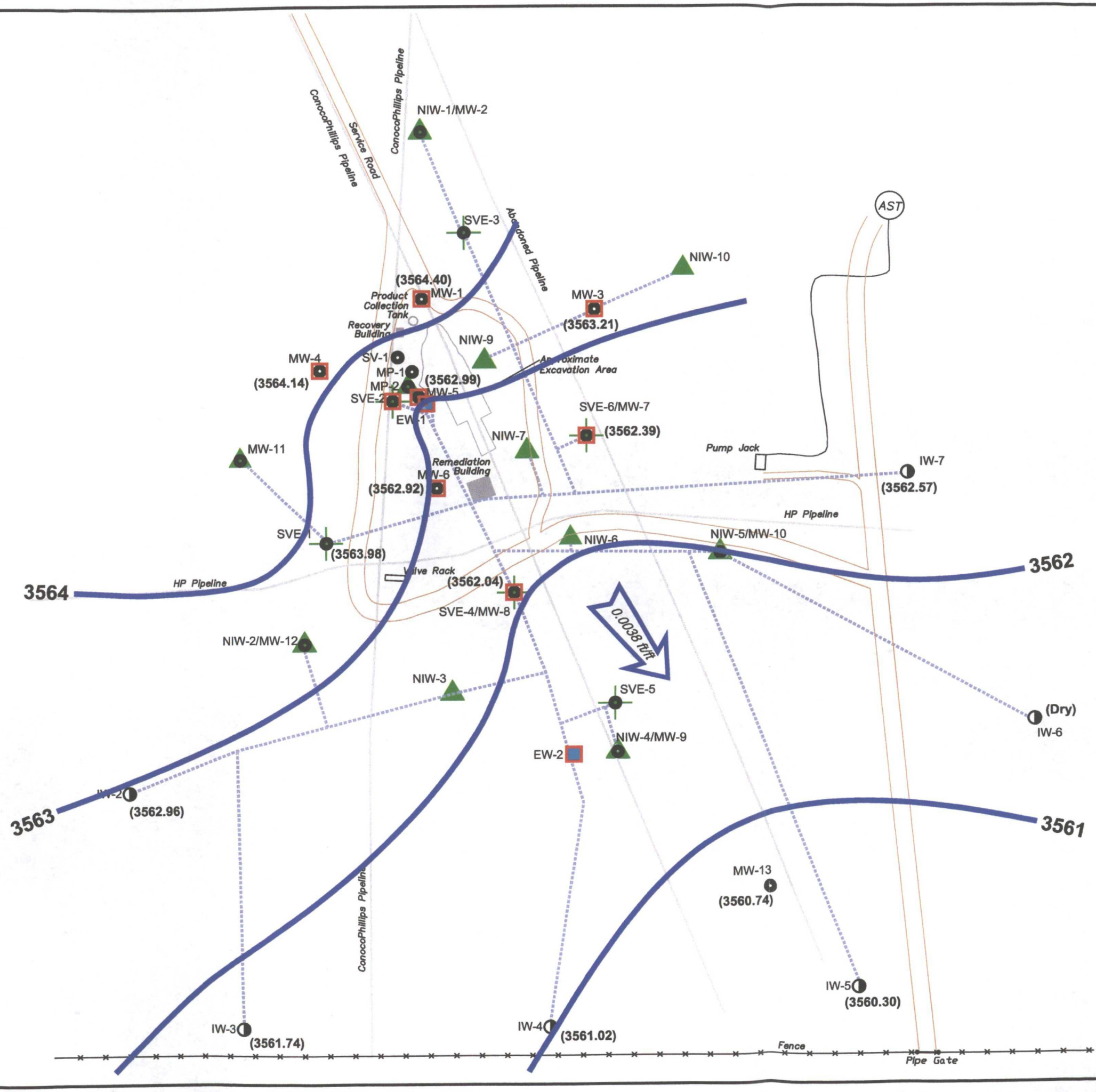
- MW-1 — Existing Monitor Well Location & Designation
- NIW-1 — Nutrient Injection Well Location & Designation
- SVE-1 — Soil Vapor Extraction Location & Designation
- EW-1 — Groundwater Extraction Well Location & Designation
- MW-3 — Product Recovery Well Location & Designation
- IW-7 — Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- —3563— Groundwater Elevation Contour
- (3563.79) 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 2010

ConocoPhillips	TETRA TECH, INC.
LINE NM 1-1	DATA COLLECTED : APRIL 26, 2010
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 114-6400786 MODIFIED BY : GWP DATE MODIFIED : 03/29/2011
	ACAD File : NM1_1 GW Apr10.dwg



LEGEND

- MW-1 — Existing Monitor Well Location & Designation
- NIW-1 — Nutrient Injection Well Location & Designation
- SVE-1 — Soil Vapor Extraction Location & Designation
- EW-1 — Groundwater Extraction Well Location & Designation
- MW-3 — Product Recovery Well Location & Designation
- IW-7 — Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- —3564— Groundwater Elevation Contour
- (3564.40) 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 2010

ConocoPhillips

TETRA TECH, INC.

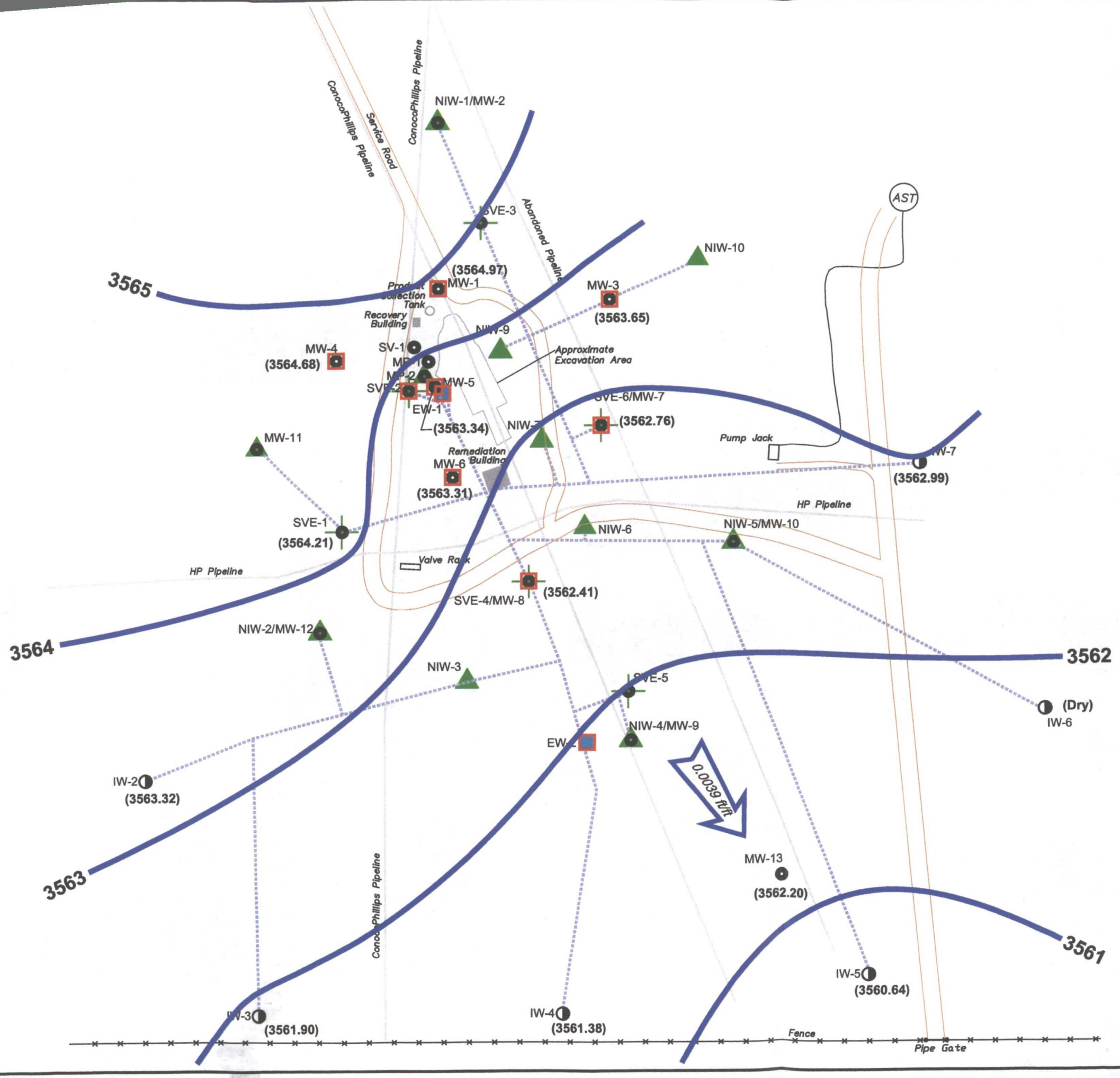
LINE NM 1-1

DATA COLLECTED : JULY 26, 2010

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 03/28/2011

ACAD File : NM1_1 GW Jul10.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
- (3564.97) — Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

N

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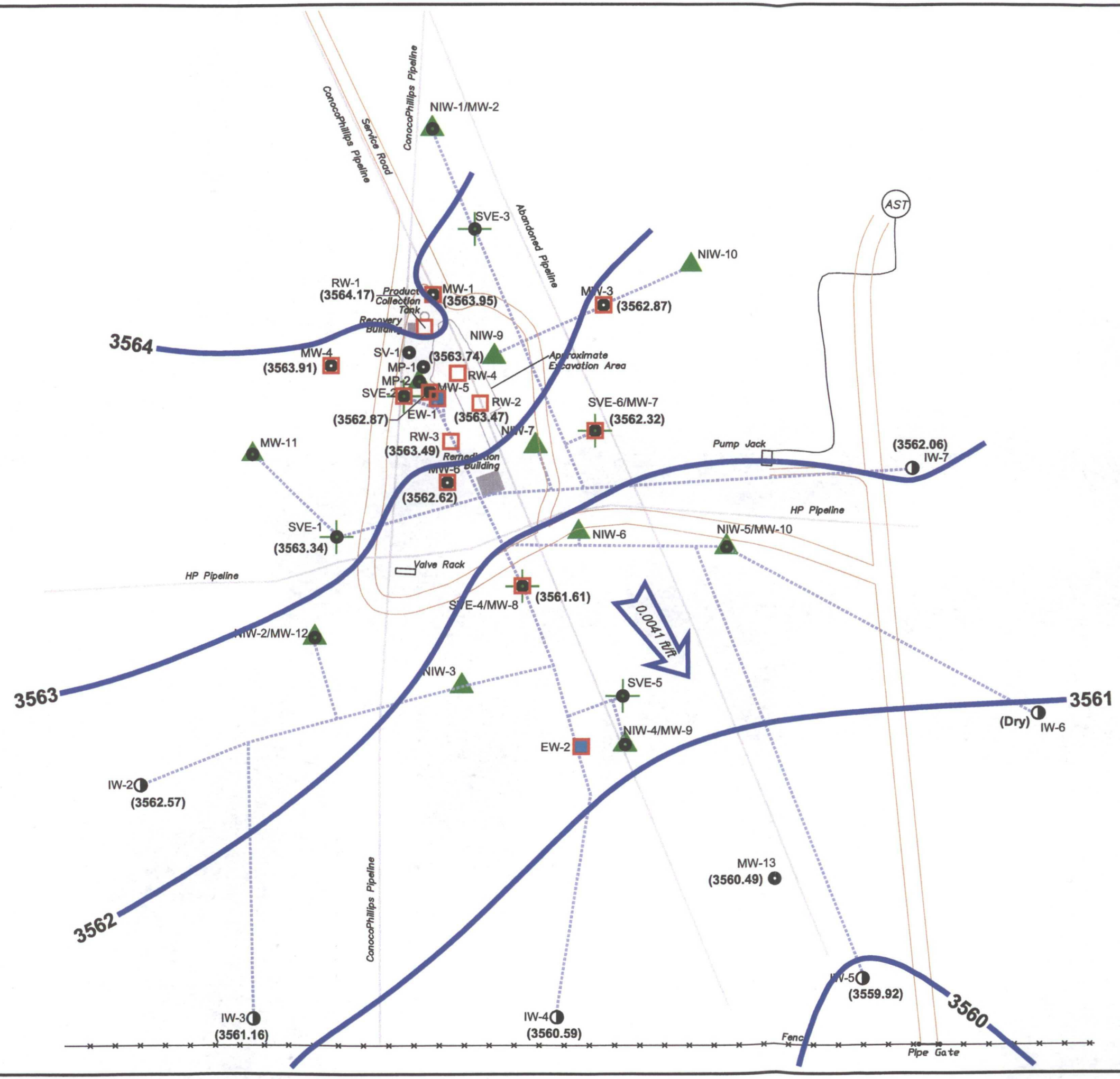
Scale (ft)

FIGURE 2c : GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 2010

ConocoPhillips

TETRA TECH, INC.

LINE NM 1-1	DATA COLLECTED : OCT 25, 2010
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 114-6400786 MODIFIED BY : GWP DATE MODIFIED : 03/28/2011
	ACAD File : NM1_1 GW Oct10.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
- RW-3 — Product Recovery Well Location & Designation
- IW-7 — Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- —3564— Groundwater Elevation Contour
- (3563.95) Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

N

0 120 240

Scale (ft)

FIGURE 2d : GROUNDWATER ELEVATION CONTOUR MAP JANUARY 2011

ConocoPhillips

TETRA TECH, INC.

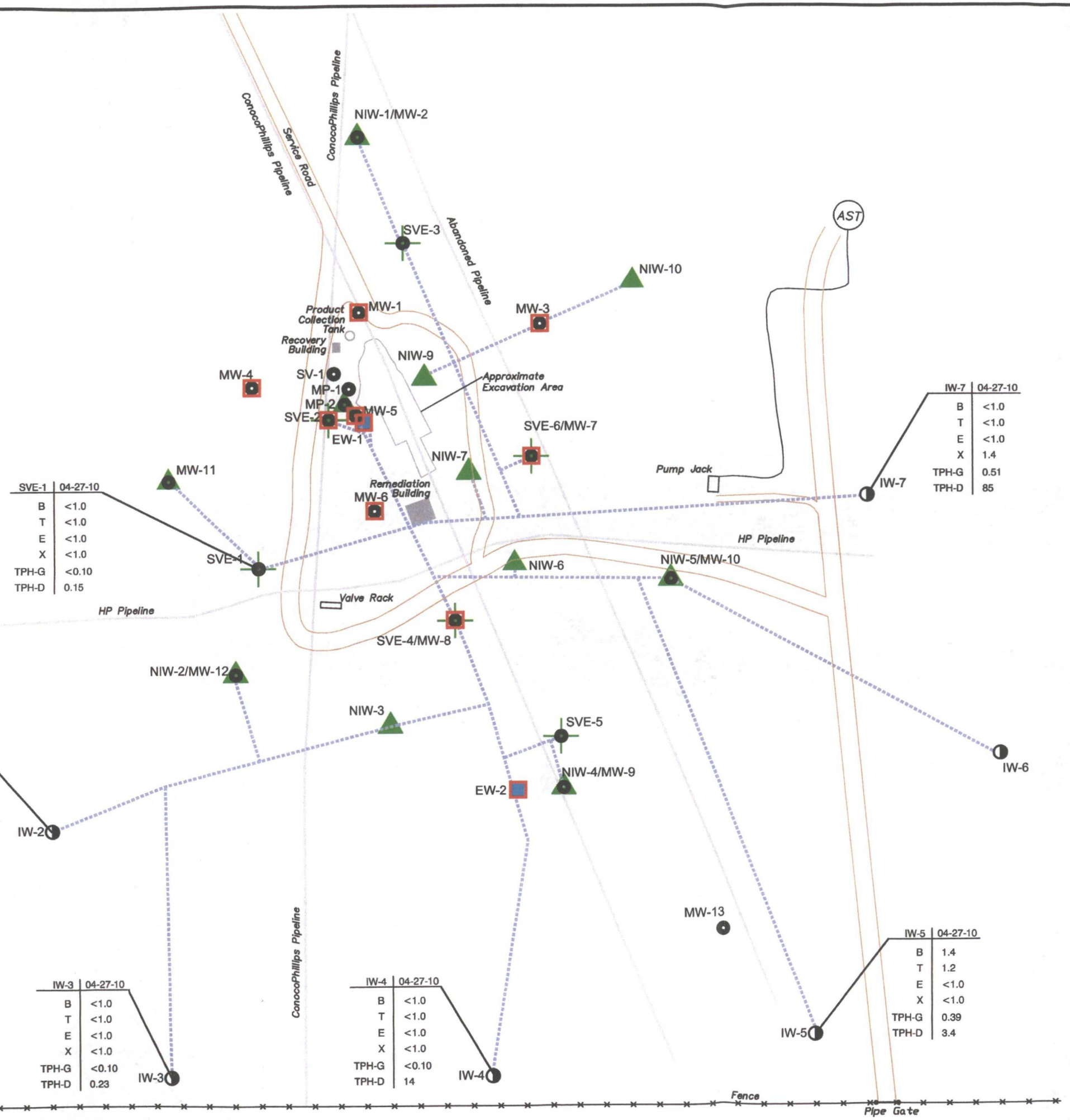
LINE NM 1-1

DATA COLLECTED : JAN 24, 2011

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 03/25/2011

ACAD File : NM1_1 GW Jan11.dwg



SVE-1	04-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	0.15

IW-7	04-27-10
B	<1.0
T	<1.0
E	<1.0
X	1.4
TPH-G	0.51
TPH-D	85

IW-2	04-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	0.77

IW-3	04-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	0.23

IW-4	04-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	14

IW-5	04-27-10
B	1.4
T	1.2
E	<1.0
X	<1.0
TPH-G	0.39
TPH-D	3.4

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 3a : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS APRIL 2010

ConocoPhillips

TETRA TECH, INC.

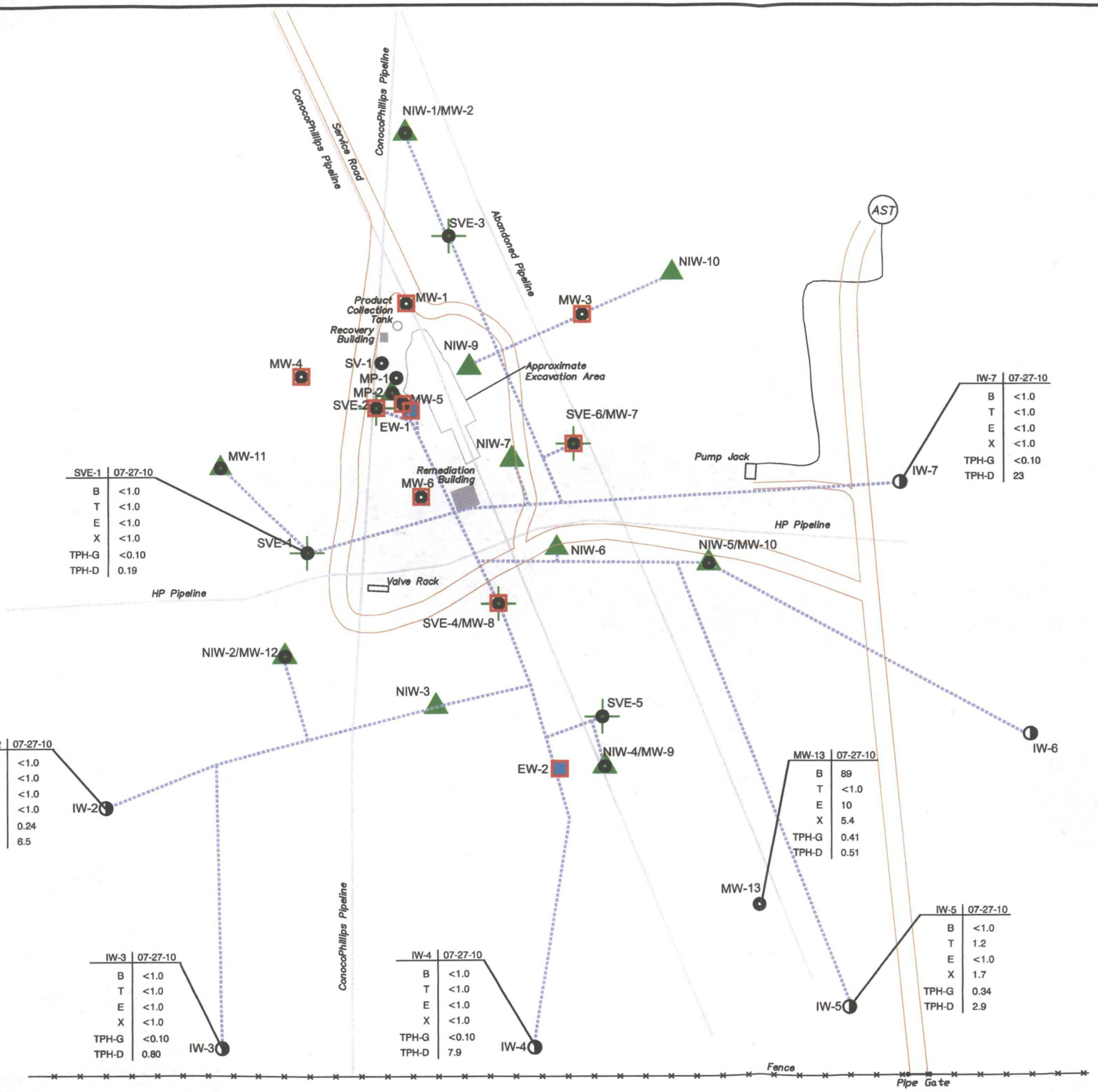
LINE NM 1-1

DATA COLLECTED : APRIL 27, 2010

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 04/04/2011

ACAD File : NM1_1 GW Results Apr10.dwg



SVE-1	07-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	0.19

IW-7	07-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	23

IW-2	07-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	0.24
TPH-D	6.5

MW-13	07-27-10
B	89
T	<1.0
E	10
X	5.4
TPH-G	0.41
TPH-D	0.51

IW-3	07-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	0.80

IW-4	07-27-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	7.9

IW-5	07-27-10
B	<1.0
T	1.2
E	<1.0
X	1.7
TPH-G	0.34
TPH-D	2.9

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 3b : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS JULY 2010

ConocoPhillips

TETRA TECH, INC.

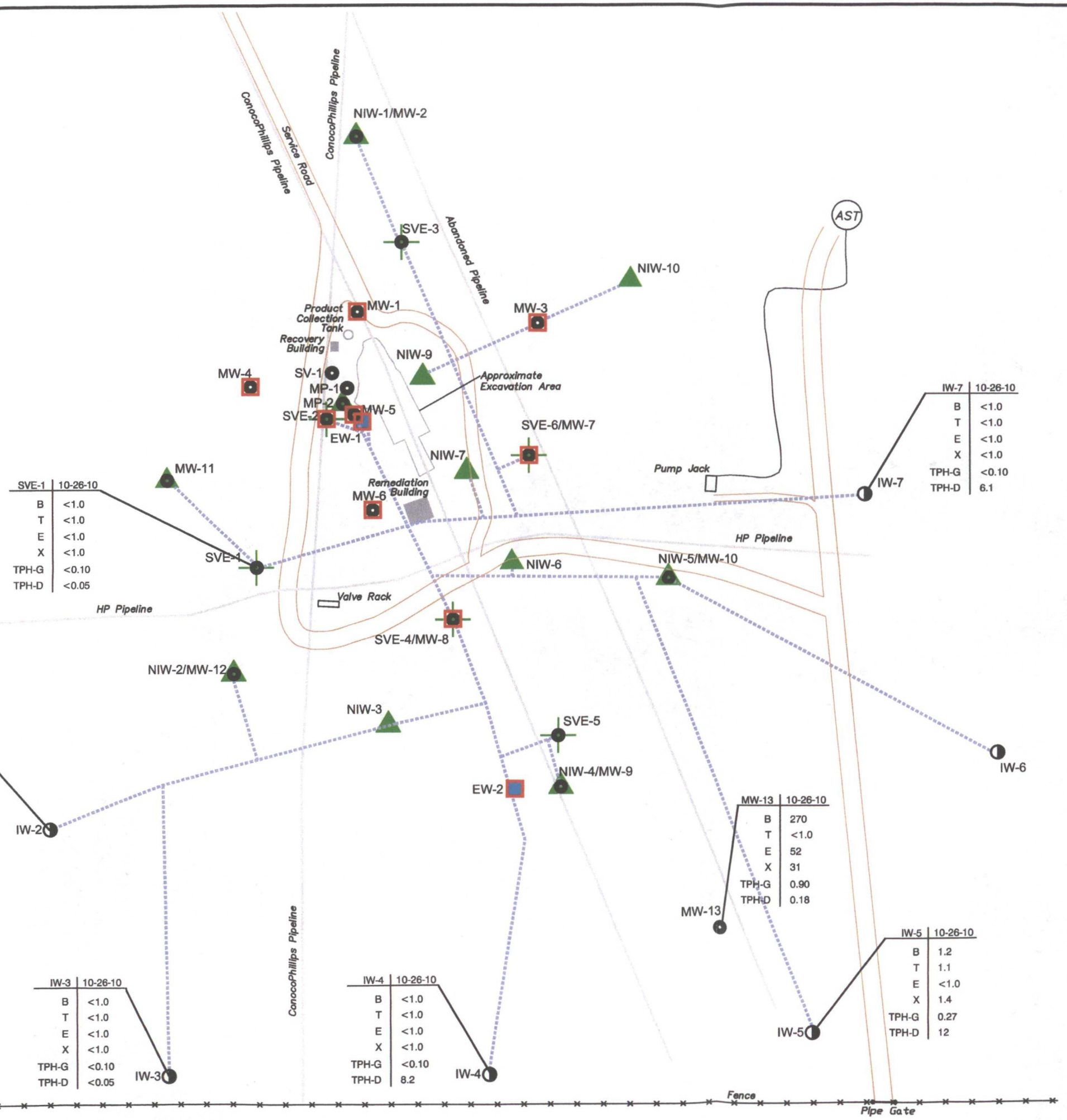
LINE NM 1-1

DATA COLLECTED : JULY 27, 2010

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 04/04/2011

ACAD File : NM1_1 GW Results Jul10.dwg



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

IW-7	10-26-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	6.1

IW-2	10-26-10
B	<1.0
T	<1.0
E	<1.0
X	1.0
TPH-G	<0.10
TPH-D	1.1

MW-13	10-26-10
B	270
T	<1.0
E	52
X	31
TPH-G	0.90
TPH-D	0.18

IW-3	10-26-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	<0.05

IW-4	10-26-10
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	8.2

IW-5	10-26-10
B	1.2
T	1.1
E	<1.0
X	1.4
TPH-G	0.27
TPH-D	12

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 2010

ConocoPhillips

TETRA TECH, INC.

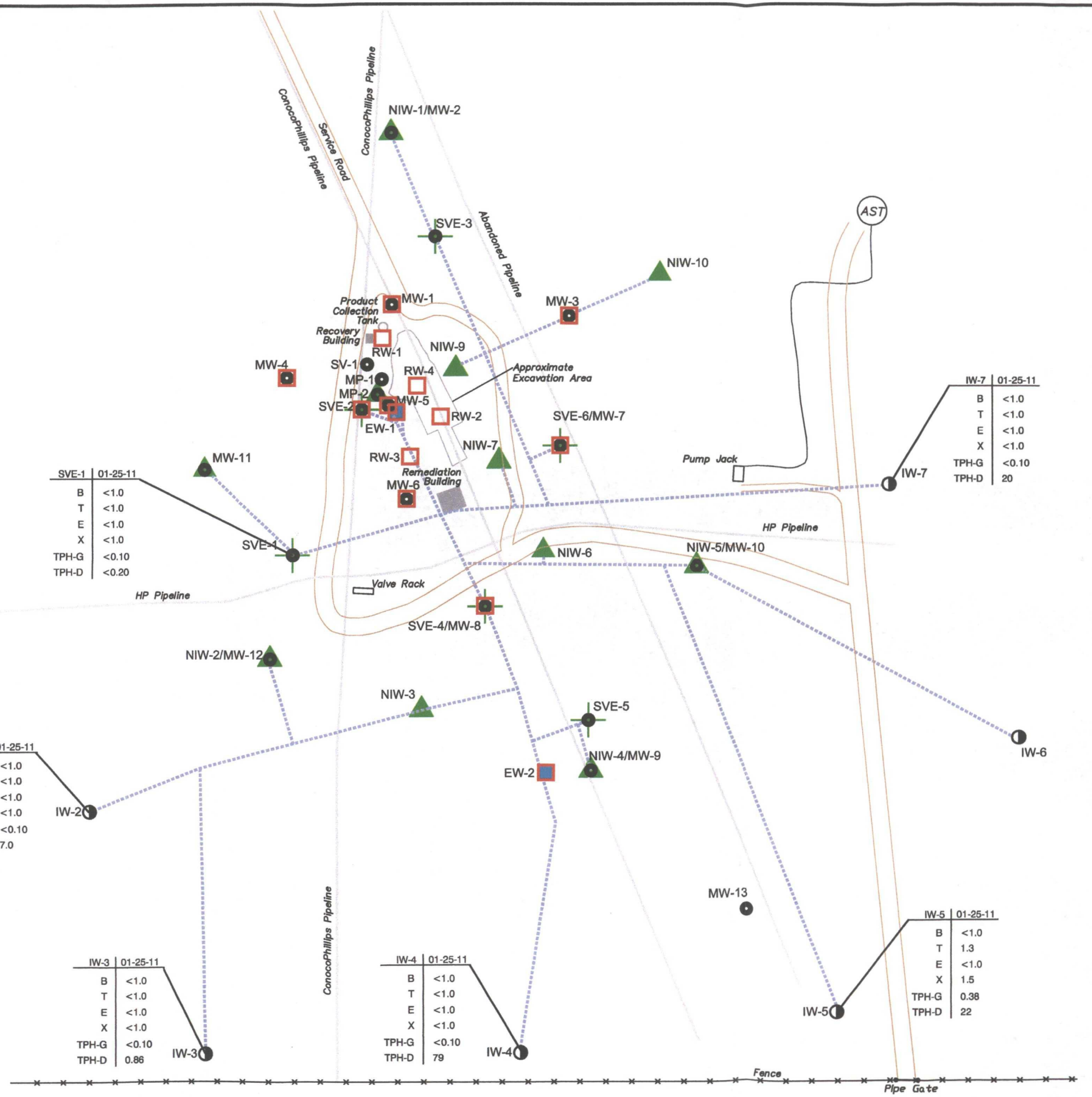
LINE NM 1-1

DATA COLLECTED : OCT 26, 2010

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 04/04/2011

ACAD File : NM1_1 GW Results Oct10.dwg



SVE-1	01-25-11
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	<0.20

IW-7	01-25-11
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	20

IW-2	01-25-11
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	7.0

IW-3	01-25-11
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	0.86

IW-4	01-25-11
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TPH-G	<0.10
TPH-D	79

IW-5	01-25-11
B	<1.0
T	1.3
E	<1.0
X	1.5
TPH-G	0.38
TPH-D	22

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
- RW-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 3d : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS JANUARY 2011

ConocoPhillips

TETRA TECH, INC.

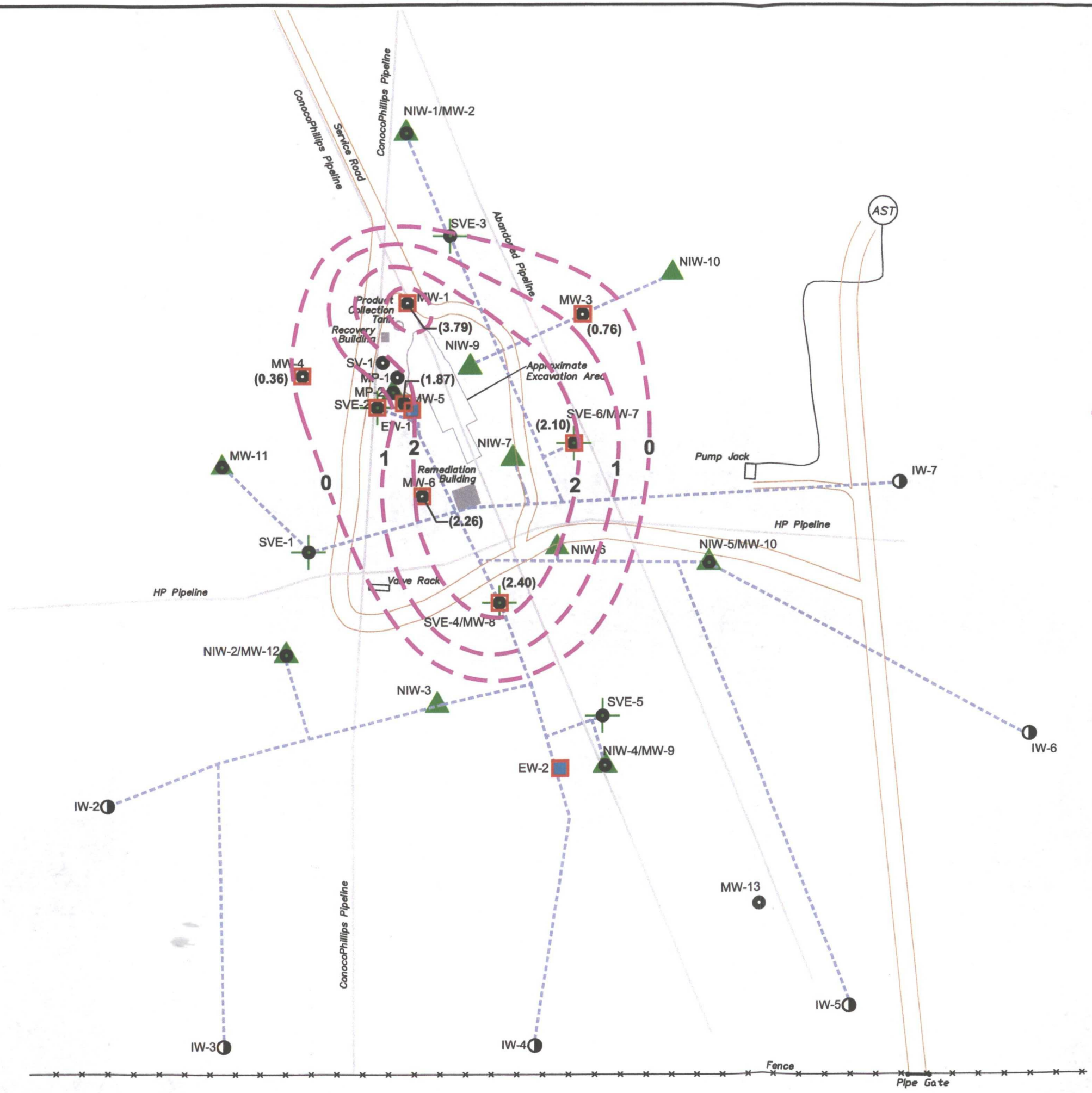
LINE NM 1-1

DATA COLLECTED : JAN 25, 2011

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 04/04/2011

ACAD File : NM1_1 GW Results Jan11.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
- (3.79) — LPH Thickness (feet)

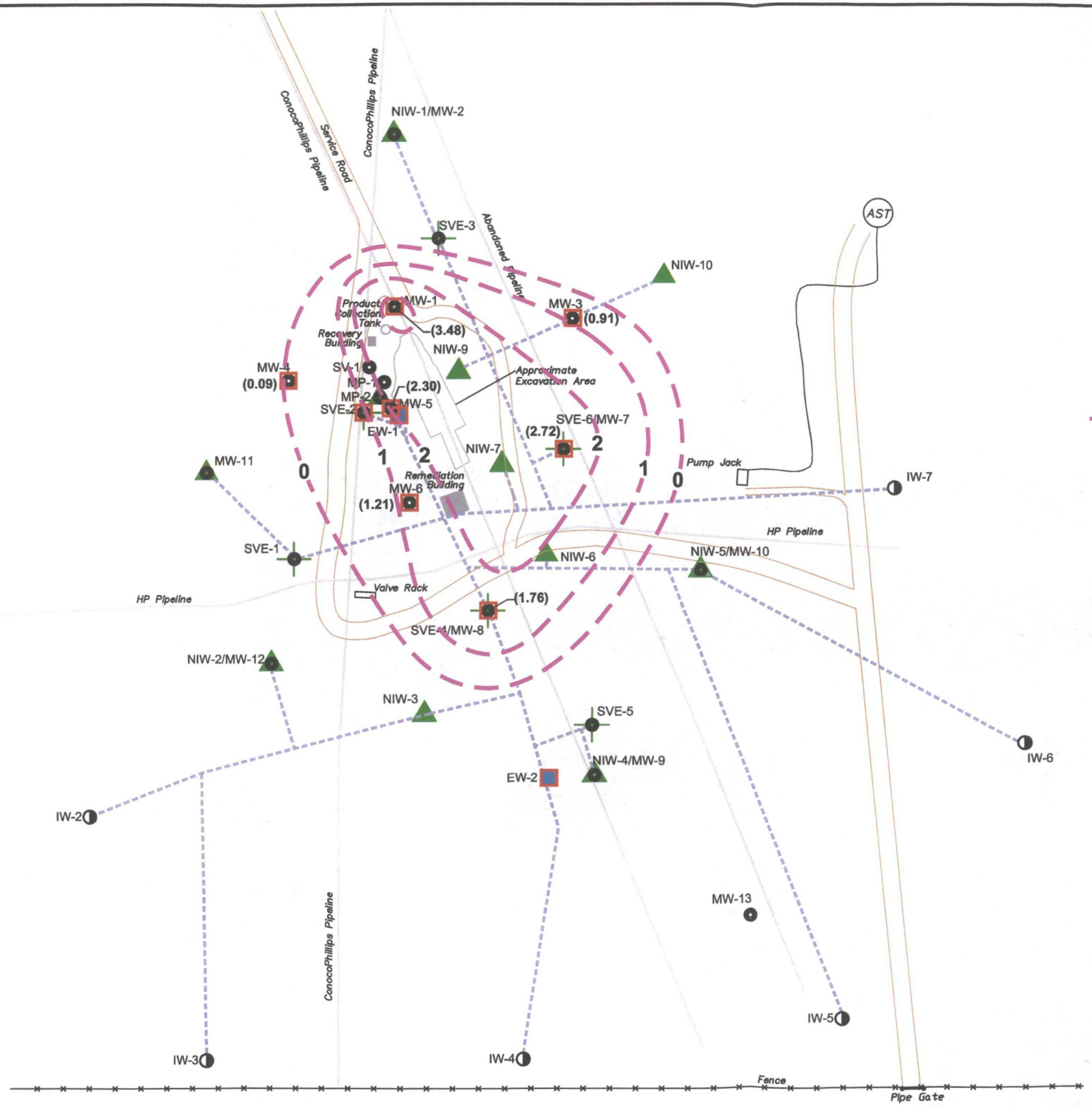
N

0 120 240

Scale (ft)

FIGURE 4a : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP APRIL 2010

ConocoPhillips	TETRA TECH, INC.
LINE NM 1-1	DATA COLLECTED : APRIL 26, 2010
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 114-6400786 MODIFIED BY : GWP DATE MODIFIED : 03/29/2011
	ACAD File : NM1_1 LPH Apr10.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
- (3.48) — LPH Thickness (feet)

N

0 120 240

Scale (ft)

FIGURE 4b : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP JULY 2010

ConocoPhillips

TETRA TECH, INC.

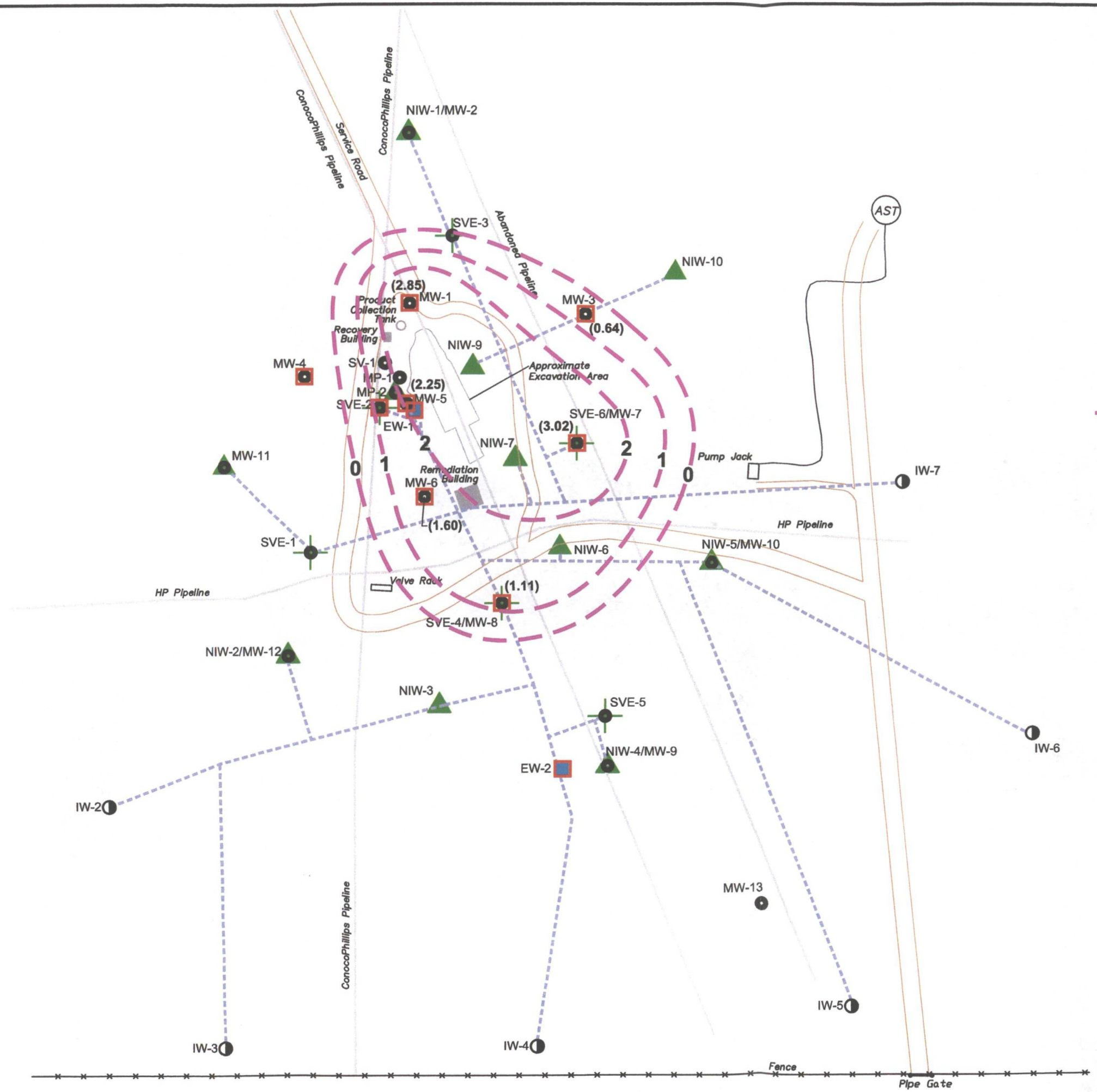
LINE NM 1-1

DATA COLLECTED : JULY 26, 2010

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 03/29/2011

ACAD File : NM1_1 LPH Jul10.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
- (2.85) — LPH Thickness (feet)

N

0 120 240

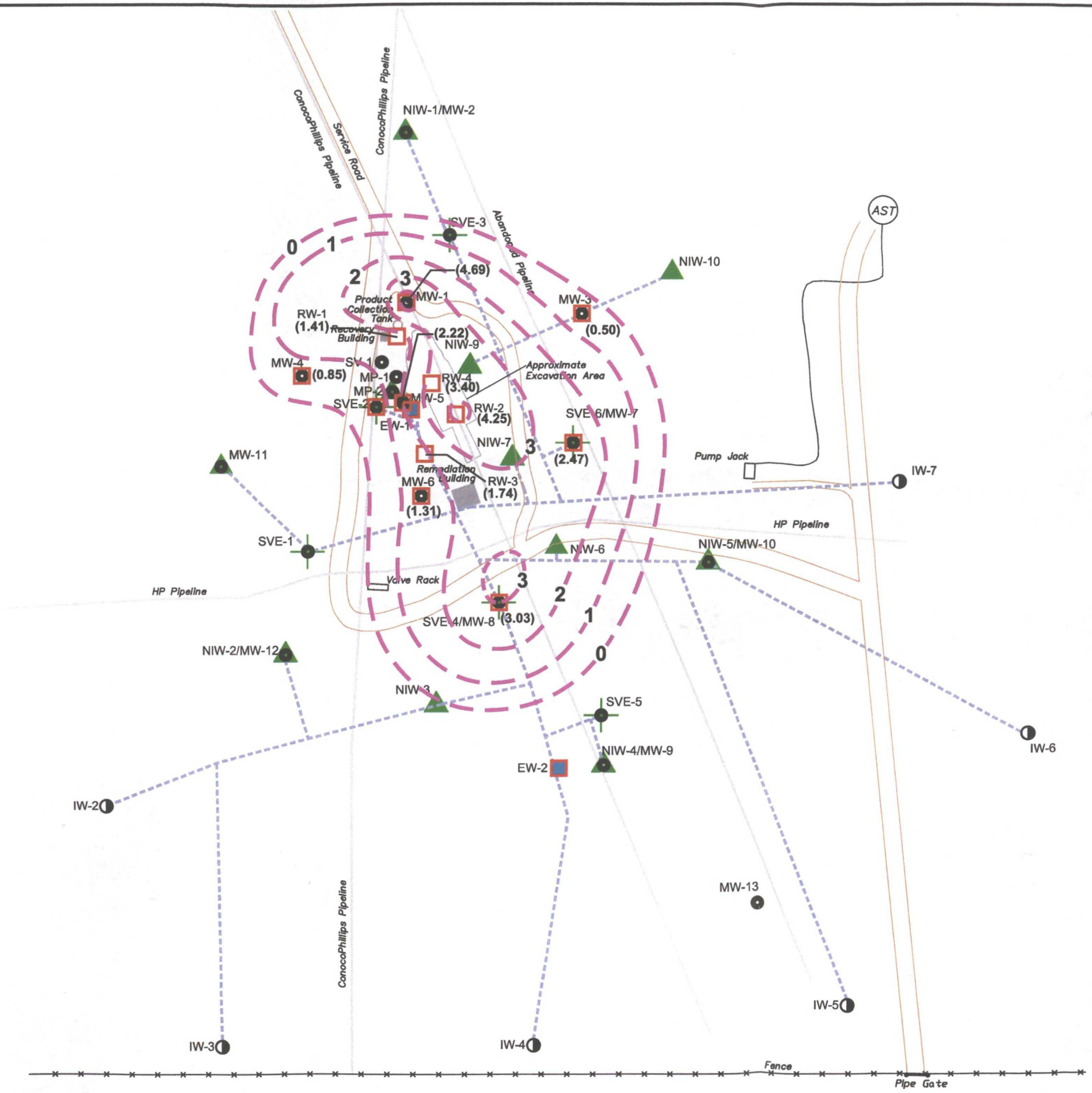
Scale (ft)

FIGURE 4c : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP OCTOBER 2010

ConocoPhillips

TETRA TECH, INC.

LINE NM 1-1	DATA COLLECTED : OCT 25, 2010
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 114-6400786 MODIFIED BY : GWP DATE MODIFIED : 03/29/2011
	ACAD File : NM1_1 LPH Oct10.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
- RW-3 — Product Recovery Well Location & Designation
- IW-7 — Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 1 — LPH Thickness Contour
- (4.25) — LPH Thickness (feet)

N

0 120 240

Scale (ft)

FIGURE 4d : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP JANUARY 2011

ConocoPhillips

TETRA TECH, INC.

LINE NM 1-1

DATA COLLECTED : JAN 24, 2011

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

PROJECT NO : 114-6400786
MODIFIED BY : GWP
DATE MODIFIED : 03/24/2011

ACAD File : NM1_1 LPH Jan11.dwg

TABLES

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

Table 1

Water Level Measurements

ConocoPhillips - Line NM1-1

Hobbs, New Mexico

(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-1	02/27/01	3603.30	36.20	30.13	6.07	4.86	31.34	3571.96
	06/25/01	3603.30	35.23	34.92	0.31	0.25	34.98	3568.32
	09/25/01	3603.30	40.28	34.64	5.64	4.51	35.77	3567.53
	12/11/01	3603.30	40.72	34.96	5.76	4.61	36.11	3567.19
	11/05/02	3603.30	41.32	35.76	5.56	4.45	36.87	3566.43
	04/21/03	3603.30	41.52	36.33	5.19	4.15	37.37	3565.93
	06/23/03	3603.30	41.89	36.29	5.60	4.48	37.41	3565.89
	11/05/03	3603.30	41.83	36.50	5.33	4.26	37.57	3565.73
	01/19/04	3603.30	42.39	37.06	5.33	4.26	38.13	3565.17
	04/19/04	3603.30	42.07	37.29	4.78	3.82	38.25	3565.05
	07/20/04	3603.30	40.91	37.03	3.88	3.10	37.81	3565.49
	10/25/04	3603.30	35.26	34.78	0.48	0.38	34.88	3568.42
	01/24/05	3603.30	33.36	32.92	0.44	0.35	33.01	3570.29
	04/18/05	3603.30	35.54	33.32	2.22	1.78	33.76	3569.54
	07/18/05	3603.30	36.48	34.08	2.40	1.92	34.56	3568.74
	08/19/05	3603.30	37.13	34.43	2.70	2.16	34.97	3568.33
	10/17/05	3603.30	35.90	34.10	1.80	1.44	34.46	3568.84
	11/16/05	3603.30	35.78	34.19	1.59	1.27	34.51	3568.79
	11/29/05	3603.30	35.95	34.28	1.67	1.34	34.61	3568.69
	12/12/05	3603.30	36.31	34.35	1.96	1.57	34.74	3568.56
	12/21/05	3603.30	36.82	34.31	2.51	2.01	34.81	3568.49
	12/28/05	3603.30	36.75	34.44	2.31	1.85	34.90	3568.40
	01/04/06	3603.30	36.91	34.52	2.39	1.91	35.00	3568.30
	01/11/06	3603.30	36.91	34.49	2.42	1.94	34.97	3568.33
	01/16/06	3603.30	34.99	34.92	0.07	0.06	34.93	3568.37
	01/23/06	3603.30	36.51	34.79	1.72	1.38	35.13	3568.17
	02/01/06	3603.30	35.21	34.98	0.23	0.18	35.03	3568.27
	02/16/06	3603.30	35.25	35.08	0.17	0.14	35.11	3568.19
	03/06/06	3603.30	35.42	35.26	0.16	0.13	35.29	3568.01
	03/29/06	3603.30	35.56	35.49	0.07	0.06	35.50	3567.80
	04/04/06	3603.30	35.61	35.52	0.09	0.07	35.54	3567.76
	04/11/06	3603.30	35.88	35.52	0.36	0.29	35.59	3567.71
	04/17/06	3603.30	35.71	35.46	0.25	0.20	35.51	3567.79
	04/24/06	3603.30	37.23	35.33	1.90	1.52	35.71	3567.59
	05/03/06	3603.30	35.96	35.75	0.21	0.17	35.79	3567.51
	05/31/06	3603.30	36.02	35.93	0.09	0.07	35.95	3567.35
	06/09/06	3603.30	36.25	35.91	0.34	0.27	35.98	3567.32
	06/12/06	3603.30	36.13	36.02	0.11	0.09	36.04	3567.26
	06/26/06	3603.30	37.02	35.92	1.10	0.88	36.14	3567.16
	07/05/06	3603.30	37.51	35.94	1.57	1.26	36.25	3567.05
	07/10/06	3603.30	37.04	36.06	0.98	0.78	36.26	3567.04
	07/17/06	3603.30	37.97	35.96	2.01	1.61	36.36	3566.94
	07/24/06	3603.30	38.26	35.88	2.38	1.90	36.36	3566.94
	08/02/06	3603.30	38.56	35.93	2.63	2.10	36.46	3566.84
	08/14/06	3603.30	38.81	36.01	2.80	2.24	36.57	3566.73
	08/28/06	3603.30	38.83	35.99	2.84	2.27	36.56	3566.74
	09/14/06	3603.30	37.95	35.64	2.31	1.85	36.10	3567.20
	09/21/06	3603.30	37.62	35.55	2.07	1.66	35.96	3567.34
	09/25/06	3603.30	37.40	35.52	1.88	1.50	35.90	3567.40
	10/02/06	3603.30	36.70	35.49	1.21	0.97	35.73	3567.57
	10/10/06	3603.30	36.52	35.42	1.10	0.88	35.64	3567.66
	10/16/06	3603.30	35.97	35.41	0.56	0.45	35.52	3567.78
	10/23/06	3603.30	36.41	35.17	1.24	0.99	35.42	3567.88
	10/30/06	3603.30	35.54	35.45	0.09	0.07	35.47	3567.83
	11/06/06	3603.30	35.45	35.38	0.07	0.06	35.39	3567.91
	11/21/06	3603.30	35.46	35.40	0.06	0.05	35.41	3567.89
	11/28/06	3603.30	35.50	35.42	0.08	0.06	35.44	3567.86
	12/05/06	3603.30	36.05	35.36	0.69	0.55	35.50	3567.80
	12/11/06	3603.30	35.54	35.49	0.05	0.04	35.50	3567.80
	12/18/06	3603.30	35.61	35.56	0.05	0.04	35.57	3567.73
	01/02/07	3603.30	35.83	35.72	0.11	0.09	35.74	3567.56
	01/08/07	3603.30	35.83	35.36	0.47	0.38	35.45	3567.85
	01/23/07	3603.30	37.26	35.47	1.79	1.43	35.83	3567.47
	02/05/07	3603.30	36.14	36.03	0.11	0.09	36.05	3567.25
	02/26/07	3603.30	36.68	36.17	0.51	0.41	36.27	3567.03
	03/05/07	3603.30	36.36	36.27	0.09	0.07	36.29	3567.01
	03/13/07	3603.30	36.91	36.22	0.69	0.55	36.36	3566.94
	03/19/07	3603.30	36.46	36.35	0.11	0.09	36.37	3566.93
	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
	03/29/10	3603.30	42.25	38.74	3.51	2.81	39.44	3563.86
	04/05/10	3603.30	39.33	39.27	0.06	0.05	39.28	3564.02
	04/13/10	3603.30	42.83	38.69	4.14	3.31	39.52	3563.78
	04/19/10	3603.30	39.35	39.33	0.02	0.02	39.33	3563.97
	04/26/10	3603.30	42.54	38.75	3.79	3.03	39.51	3563.79
	05/03/10	3603.30	39.42	39.37	0.05	0.04	39.38	3563.92
	05/14/10	3603.30	39.73	38.60	1.13	0.90	38.83	3564.47
	05/20/10	3603.30	39.46	39.39	0.07	0.06	39.40	3563.90
	05/27/10	3603.30	43.00	38.76	4.24	3.39	39.61	3563.69
	06/01/10	3603.30	42.30	38.93	3.37	2.70	39.60	3563.70
	06/07/10	3603.30	39.51	39.45	0.06	0.05	39.46	3563.84
	06/15/10	3603.30	43.25	38.82	4.43	3.54	39.71	3563.59
	06/28/10	3603.30	39.60	39.50	0.10	0.08	39.52	3563.78
	07/06/10	3603.30	43.08	38.83	4.25	3.40	39.68	3563.62
	07/13/10	3603.30	42.48	38.45	4.03	3.22	39.26	3564.04
	07/19/10	3603.30	41.80	38.38	3.42	2.74	39.06	3564.24
	07/26/10	3603.30	41.68	38.20	3.48	2.78	38.90	3564.40
	07/27/10	3603.30	41.58	38.16	3.42	2.74	38.84	3564.46
	07/28/10	3603.30	41.63	38.04	3.59	2.87	38.76	3564.54
	08/09/10	3603.30	41.00	38.02	2.98	2.38	38.62	3564.68
	08/16/10	3603.30	40.60	37.95	2.65	2.12	38.48	3564.82
	08/30/10	3603.30	40.28	37.85	2.43	1.94	38.34	3564.96
	09/08/10	3603.30	38.70	38.21	0.49	0.39	38.31	3564.99
	09/13/10	3603.30	38.13	38.07	0.06	0.05	38.08	3565.22
	09/20/10	3603.30	39.98	37.76	2.22	1.78	38.20	3565.10

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.	09/27/10	3603.30	40.11	37.75	2.36	1.89	38.22	3565.08
	10/04/10	3603.30	40.50	37.75	2.75	2.20	38.30	3565.00
	10/12/10	3603.30	38.20	38.13	0.07	0.06	38.14	3565.16
	10/19/10	3603.30	40.50	37.81	2.69	2.15	38.35	3564.95
	10/25/10	3603.30	40.61	37.76	2.85	2.28	38.33	3564.97
	11/01/10	3603.30	41.40	37.87	3.53	2.82	38.58	3564.72
	11/09/10	3603.30	41.00	37.89	3.11	2.49	38.51	3564.79
	11/22/10	3603.30	41.40	37.99	3.41	2.73	38.67	3564.63
	12/06/10	3603.30	38.68	38.55	0.13	0.10	38.58	3564.72
	01/03/11	3603.30	42.12	38.18	3.94	3.15	38.97	3564.33
	01/17/11	3603.30	39.80	38.72	1.08	0.86	38.94	3564.36
	01/29/11	3603.30	43.10	38.41	4.69	3.75	39.35	3563.95
	01/31/11	3603.30	40.28	38.78	1.50	1.20	39.08	3564.22
	02/07/11	3603.30	40.30	38.80	1.50	1.20	39.10	3564.20
	02/15/11	3603.30	40.87	38.86	2.01	1.61	39.26	3564.04
	03/01/11	3603.30	41.66	38.81	2.85	2.28	39.38	3563.92
	03/07/11	3603.30	42.40	38.73	3.67	2.94	39.46	3563.84
	03/21/11	3603.30	42.80	38.39	4.41	3.53	39.27	3564.03
	03/28/11	3603.30	43.33	38.75	4.58	3.66	39.67	3563.63
MW-2 (NIW-1)	02/27/01	3601.57	32.16		0.00	0.00	32.16	3569.41
	06/25/01	3601.57	32.60		0.00	0.00	32.60	3568.97
	09/25/01	3601.57	33.12		0.00	0.00	33.12	3568.45
	12/11/01	3601.57	33.51		0.00	0.00	33.51	3568.06
	05/20/02	3601.57	33.75		0.00	0.00	33.75	3567.82
MW-3	02/27/01	3602.77	38.93	33.88	5.05	4.04	34.89	3567.88
	06/25/01	3602.77	39.44	35.23	4.21	3.37	36.07	3566.70
	09/25/01	3602.77	40.41	35.79	4.62	3.70	36.71	3566.06
	12/11/01	3602.77	40.83	36.12	4.71	3.77	37.06	3565.71
	11/05/02	3602.77	41.26	36.82	4.44	3.55	37.71	3565.06
	04/21/03	3602.77	41.52	37.14	4.38	3.50	38.02	3564.75
	06/23/03	3602.77	37.93	36.77	1.16	0.93	37.00	3565.77
	11/05/03	3602.77	42.31	38.01	4.30	3.44	38.87	3563.90
	01/19/04	3602.77	42.68	38.36	4.32	3.46	39.22	3563.55
	04/19/04	3602.77	42.08	38.31	3.77	3.02	39.06	3563.71
	07/20/04	3602.77	41.09	38.01	3.08	2.46	38.63	3564.14
	10/25/04	3602.77	35.38		0.00	0.00	35.38	3567.39
	01/24/05	3602.77	35.22	33.51	1.71	1.37	33.85	3568.92
	04/18/05	3602.77	36.20	34.21	1.99	1.59	34.61	3568.16
	07/18/05	3602.77	37.30	35.15	2.15	1.72	35.58	3567.19
	08/19/05	3602.77	37.93	35.43	2.50	2.00	35.93	3566.84
	09/15/05	3602.77	37.05	35.30	1.75	1.40	35.65	3567.12
	09/29/05	3602.77	35.65	35.40	0.25	0.20	35.45	3567.32
	10/11/05	3602.77	35.86	35.26	0.60	0.48	35.38	3567.39
	10/17/05	3602.77	35.86	35.17	0.69	0.55	35.31	3567.46
	11/03/05	3602.77	35.68	35.16	0.52	0.42	35.26	3567.51
	11/16/05	3602.77	35.83	35.29	0.54	0.43	35.40	3567.37
	11/22/05	3602.77	35.82	35.23	0.59	0.47	35.35	3567.42
	11/29/05	3602.77	35.85	35.40	0.45	0.36	35.49	3567.28
	12/28/05	3602.77	35.87	35.72	0.15	0.12	35.75	3567.02
	01/04/06	3602.77	36.13	35.75	0.38	0.30	35.83	3566.94
	01/11/06	3602.77	36.03	35.76	0.27	0.22	35.81	3566.96
	01/16/06	3602.77	36.24	35.81	0.43	0.34	35.90	3566.87
	01/23/06	3602.77	36.37	35.81	0.56	0.45	35.92	3566.85
	02/01/06	3602.77	36.10	36.00	0.10	0.08	36.02	3566.75
	02/16/06	3602.77	36.27	36.12	0.15	0.12	36.15	3566.62
	03/06/06	3602.77	36.49	36.29	0.20	0.16	36.33	3566.44
	03/29/06	3602.77	36.70	36.48	0.22	0.18	36.52	3566.25
	04/04/06	3602.77	36.76	36.51	0.25	0.20	36.56	3566.21
	04/11/06	3602.77	36.88	36.55	0.33	0.26	36.62	3566.15
	04/17/06	3602.77	36.89	36.57	0.32	0.26	36.63	3566.14
	04/24/06	3602.77	37.06	36.54	0.52	0.42	36.64	3566.13
	05/03/06	3602.77	36.91	36.72	0.19	0.15	36.76	3566.01
	05/31/06	3602.77	37.54	36.86	0.68	0.54	37.00	3565.77
	06/09/06	3602.77	37.70	36.90	0.80	0.64	37.06	3565.71
	06/12/06	3602.77	37.21	37.06	0.15	0.12	37.09	3565.68
	06/26/06	3602.77	37.91	37.03	0.88	0.70	37.21	3565.56
	07/05/06	3602.77	38.04	37.08	0.96	0.77	37.27	3565.50
	07/10/06	3602.77	38.08	37.09	0.99	0.79	37.29	3565.48
	07/17/06	3602.77	38.14	37.14	1.00	0.80	37.34	3565.43

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.	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
	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

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.	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
	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
	03/29/10	3602.77	41.27	41.18	0.09	0.07	41.20	3561.57

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.	04/05/10	3602.77	40.87	40.08	0.79	0.63	40.24	3562.53
	04/13/10	3602.77	40.35	40.25	0.10	0.08	40.27	3562.50
	04/19/10	3602.77	40.81	40.14	0.67	0.54	40.27	3562.50
	04/26/10	3602.77	40.91	40.15	0.76	0.61	40.30	3562.47
	05/03/10	3602.77	40.45	40.28	0.17	0.14	40.31	3562.46
	05/14/10	3602.77	41.16	40.14	1.02	0.82	40.34	3562.43
	05/20/10	3602.77	40.54	40.27	0.27	0.22	40.32	3562.45
	05/27/10	3602.77	40.50	40.30	0.20	0.16	40.34	3562.43
	06/01/10	3602.77	40.91	40.23	0.68	0.54	40.37	3562.40
	06/07/10	3602.77	40.58	40.34	0.24	0.19	40.39	3562.38
	06/15/10	3602.77	40.65	40.35	0.30	0.24	40.41	3562.36
	06/28/10	3602.77	40.65	40.40	0.25	0.20	40.45	3562.32
	07/06/10	3602.77	41.21	40.26	0.95	0.76	40.45	3562.32
	07/13/10	3602.77	40.81	39.79	1.02	0.82	39.99	3562.78
	07/19/10	3602.77	39.81	0.00	0.00	0.00	39.81	3562.96
	07/26/10	3602.77	40.29	39.38	0.91	0.73	39.56	3563.21
	07/27/10	3602.77	39.56	39.45	0.11	0.09	39.47	3563.30
	07/28/10	3602.77	39.75	39.40	0.35	0.28	39.47	3563.30
	08/09/10	3602.77	39.93	39.08	0.85	0.68	39.25	3563.52
	08/16/10	3602.77	39.30	39.09	0.21	0.17	39.13	3563.64
	08/30/10	3602.77	39.30	38.89	0.41	0.33	38.97	3563.80
	09/08/10	3602.77	39.07	38.91	0.16	0.13	38.94	3563.83
	09/13/10	3602.77	39.09	38.85	0.24	0.19	38.90	3563.87
	09/20/10	3602.77	39.09	38.83	0.26	0.21	38.88	3563.89
	09/27/10	3602.77	39.24	38.83	0.41	0.33	38.91	3563.86
	10/04/10	3602.77	39.20	38.95	0.25	0.20	39.00	3563.77
	10/12/10	3602.77	39.14	38.99	0.15	0.12	39.02	3563.75
	10/19/10	3602.77	39.50	38.97	0.53	0.42	39.08	3563.69
	10/25/10	3602.77	39.63	38.99	0.64	0.51	39.12	3563.65
	11/01/10	3602.77	39.30	39.17	0.13	0.10	39.20	3563.57
	11/09/10	3602.77	39.35	39.22	0.13	0.10	39.25	3563.52
	11/22/10	3602.77	40.04	39.20	0.84	0.67	39.37	3563.40
	12/06/10	3602.77	39.51	0.00	0.00	0.00	39.51	3563.26
	01/03/11	3602.77	40.82	39.49	1.33	1.06	39.76	3563.01
	01/10/11	3602.77	39.90	39.80	0.10	0.08	39.82	3562.95
	01/29/11	3602.77	40.30	39.80	0.50	0.40	39.90	3562.87
	01/31/11	3602.77	40.06	39.91	0.15	0.12	39.94	3562.83
	02/07/11	3602.77	40.08	39.90	0.18	0.14	39.94	3562.83
	02/15/11	3602.77	40.26	40.02	0.24	0.19	40.07	3562.70
	03/01/11	3602.77	40.31	40.11	0.20	0.16	40.15	3562.62
	03/07/11	3602.77	40.38	40.17	0.21	0.17	40.21	3562.56
	03/21/11	3602.77	40.56	40.24	0.32	0.26	40.30	3562.47
	03/28/11	3602.77	40.63	40.31	0.32	0.26	40.37	3562.40
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

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.	12/21/05	3601.70	33.88	33.50	0.38	0.30	33.58	3568.12
	12/28/05	3601.70	33.98	33.54	0.44	0.35	33.63	3568.07
	01/04/06	3601.70	34.17	33.62	0.55	0.44	33.73	3567.97
	01/10/06	3601.70	34.03	33.62	0.41	0.33	33.70	3568.00
	01/11/06	3601.70	34.03	33.61	0.42	0.34	33.69	3568.01
	01/16/06	3601.70	34.18	33.64	0.54	0.43	33.75	3567.95
	01/23/06	3601.70	33.96	33.69	0.27	0.22	33.74	3567.96
	02/01/06	3601.70	34.05	33.80	0.25	0.20	33.85	3567.85
	02/16/06	3601.70	34.14	33.91	0.23	0.18	33.96	3567.74
	03/06/06	3601.70	34.33	34.04	0.29	0.23	34.10	3567.60
	03/29/06	3601.70	34.51	34.23	0.28	0.22	34.29	3567.41
	04/04/06	3601.70	34.56	34.25	0.31	0.25	34.31	3567.39
	04/11/06	3601.70	34.64	34.31	0.33	0.26	34.38	3567.32
	04/17/06	3601.70	34.69	34.34	0.35	0.28	34.41	3567.29
	04/24/06	3601.70	34.73	34.33	0.40	0.32	34.41	3567.29
	05/03/06	3601.70	34.86	34.44	0.42	0.34	34.52	3567.18
	05/31/06	3601.70	35.18	34.63	0.55	0.44	34.74	3566.96
	06/09/06	3601.70	35.25	34.68	0.57	0.46	34.79	3566.91
	06/12/06	3601.70	35.24	34.72	0.52	0.42	34.82	3566.88
	06/26/06	3601.70	35.37	34.82	0.55	0.44	34.93	3566.77
	07/05/06	3601.70	35.41	34.88	0.53	0.42	34.99	3566.71
	07/10/06	3601.70	35.45	34.90	0.55	0.44	35.01	3566.69
	07/17/06	3601.70	35.53	34.94	0.59	0.47	35.06	3566.64
	07/24/06	3601.70	35.51	34.89	0.62	0.50	35.01	3566.69
	08/02/06	3601.70	35.58	35.02	0.56	0.45	35.13	3566.57
	08/14/06	3601.70	35.33	35.15	0.18	0.14	35.19	3566.51
	08/28/06	3601.70	35.19	35.18	0.01	0.01	35.18	3566.52
	09/14/06	3601.70	34.84	34.83	0.01	0.01	34.83	3566.87
	09/21/06	3601.70	34.72	34.71	0.01	0.01	34.71	3566.99
	09/25/06	3601.70	34.68	34.67	0.01	0.01	34.67	3567.03
	10/02/06	3601.70	34.59	34.58	0.01	0.01	34.58	3567.12
	10/10/06	3601.70	34.53	34.50	0.03	0.02	34.51	3567.19
	10/16/06	3601.70	34.48	34.44	0.04	0.03	34.45	3567.25
	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

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

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-4 cont.	10/22/07	3601.70	35.29	34.89	0.40	0.32	34.97	3566.73
	10/31/07	3601.70	35.31	34.99	0.32	0.26	35.05	3566.65
	11/12/07	3601.70	35.01		0.00	0.00	35.01	3566.69
	11/19/07	3601.70	35.04	35.02	0.02	0.02	35.02	3566.68
	12/05/07	3601.70	35.26	35.09	0.17	0.14	35.12	3566.58
	12/10/07	3601.70	35.33	35.12	0.21	0.17	35.16	3566.54
	12/20/07	3601.70	35.46	35.24	0.22	0.18	35.28	3566.42
	01/02/08	3601.70	35.56	35.38	0.18	0.14	35.42	3566.28
	01/07/08	3601.70	35.60	35.40	0.20	0.16	35.44	3566.26
	01/28/08	3601.70	35.60	35.34	0.26	0.21	35.39	3566.31
	02/12/08	3601.70	35.87	35.63	0.24	0.19	35.68	3566.02
	02/26/08	3601.70	35.96	35.71	0.25	0.20	35.76	3565.94
	03/11/08	3601.70	36.06	35.80	0.26	0.21	35.85	3565.85
	03/17/08	3601.70	36.08	35.85	0.23	0.18	35.90	3565.80
	03/24/08	3601.70	36.13	35.88	0.25	0.20	35.93	3565.77
	03/31/08	3601.70	36.17	35.42	0.75	0.60	35.57	3566.13
	04/14/08	3601.70	36.29	35.99	0.30	0.24	36.05	3565.65
	04/21/08	3601.70	36.09	35.80	0.29	0.23	35.86	3565.84
	04/28/08	3601.70	36.38	36.10	0.28	0.22	36.16	3565.54
	05/20/08	3601.70	36.44	36.21	0.23	0.18	36.26	3565.44
	06/02/08	3601.70	36.55	36.30	0.25	0.20	36.35	3565.35
	06/09/08	3601.70	36.57	36.38	0.19	0.15	36.42	3565.28
	06/16/08	3601.70	36.62	36.41	0.21	0.17	36.45	3565.25
	06/30/08	3601.70	36.67	36.56	0.11	0.09	36.58	3565.12
	07/14/08	3601.70	36.77	36.59	0.18	0.14	36.63	3565.07
	07/21/08	3601.70	36.58	36.37	0.21	0.17	36.41	3565.29
	08/06/08	3601.70	36.89	36.71	0.18	0.14	36.75	3564.95
	08/18/08	3601.70	36.93	36.78	0.15	0.12	36.81	3564.89
	09/09/08	3601.70	37.04	36.86	0.18	0.14	36.90	3564.80
	09/15/08	3601.70	37.06	36.87	0.19	0.15	36.91	3564.79
	09/22/08	3601.70	37.10	36.89	0.21	0.17	36.93	3564.77
	09/29/08	3601.70	37.10	36.90	0.20	0.16	36.94	3564.76
	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

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.	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
	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
	03/29/10	3602.77	38.13	37.99	0.14	0.11	38.02	3564.75
	04/05/10	3602.77	38.34	37.97	0.37	0.30	38.04	3564.73
	04/13/10	3602.77	38.14	38.05	0.09	0.07	38.07	3564.70
	04/19/10	3602.77	38.34	38.03	0.31	0.25	38.09	3564.68
	04/26/10	3602.77	38.40	38.04	0.36	0.29	38.11	3564.66
	05/03/10	3602.77	38.25	38.08	0.17	0.14	38.11	3564.66
	05/14/10	3602.77	38.37	38.10	0.27	0.22	38.15	3564.62
	05/20/10	3602.77	38.39	38.10	0.29	0.23	38.16	3564.61
	05/27/10	3602.77	38.45	38.11	0.34	0.27	38.18	3564.59
	06/01/10	3602.77	38.35	38.14	0.21	0.17	38.18	3564.59
	06/07/10	3602.77	38.40	38.16	0.24	0.19	38.21	3564.56
	06/15/10	3602.77	38.45	38.17	0.28	0.22	38.23	3564.54
	06/28/10	3602.77	38.45	38.22	0.23	0.18	38.27	3564.50
	07/06/10	3602.77	38.50	38.16	0.34	0.27	38.23	3564.54
	07/13/10	3602.77	38.45	37.66	0.79	0.63	37.82	3564.95
	07/19/10	3602.77	37.68	37.68	0.00	0.00	37.68	3565.09
	07/26/10	3602.77	37.63	37.54	0.09	0.07	37.56	3565.21
	07/27/10	3602.77	37.60	37.50	0.10	0.08	37.52	3565.25
	07/28/10	3602.77	37.59	37.49	0.10	0.08	37.51	3565.26
	08/09/10	3602.77	37.32	0.00	0.00	0.00	37.32	3565.45
	08/16/10	3602.77	37.28	37.28	0.00	0.00	37.28	3565.49
	08/30/10	3602.77	37.08	0.00	0.00	0.00	37.08	3565.69
	09/08/10	3602.77	37.02	0.00	0.00	0.00	37.02	3565.75
	09/13/10	3602.77	36.99	36.99	0.00	0.00	36.99	3565.78
	09/20/10	3602.77	36.98	0.00	0.00	0.00	36.98	3565.79
	09/27/10	3602.77	36.95	0.00	0.00	0.00	36.95	3565.82
	10/04/10	3602.77	36.96	0.00	0.00	0.00	36.96	3565.81
	10/12/10	3602.77	36.99	0.00	0.00	0.00	36.99	3565.78
	10/19/10	3602.77	37.03	0.00	0.00	0.00	37.03	3565.74
	10/25/10	3602.77	37.02	0.00	0.00	0.00	37.02	3565.75
	11/01/10	3602.77	37.11	0.00	0.00	0.00	37.11	3565.66
	11/09/10	3602.77	37.05	0.00	0.00	0.00	37.05	3565.72
	11/22/10	3602.77	37.25	0.00	0.00	0.00	37.25	3565.52
	12/06/10	3602.77	37.35	0.00	0.00	0.00	37.35	3565.42
	01/03/11	3602.77	38.09	37.50	0.59	0.47	37.62	3565.15
	01/10/11	3602.77	38.40	37.56	0.84	0.67	37.73	3565.04
	01/24/11	3602.77	38.47	37.62	0.85	0.68	37.79	3564.98
	01/31/11	3602.77	38.53	37.68	0.85	0.68	37.85	3564.92
	02/07/11	3602.77	38.54	37.73	0.81	0.65	37.89	3564.88
	02/15/11	3602.77	38.57	37.80	0.77	0.62	37.95	3564.82
	03/01/11	3602.77	38.07	37.98	0.09	0.07	38.00	3564.77
	03/07/11	3602.77	38.11	38.03	0.08	0.06	38.05	3564.72
	03/21/11	3602.77	38.20	38.12	0.08	0.06	38.14	3564.63
	03/28/11	3602.77	38.31	38.16	0.15	0.12	38.19	3564.58
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

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.	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
	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

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.	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
	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

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.	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
	03/29/10	3602.77	40.39	38.47	1.92	1.54	38.85	3563.92
	04/05/10	3602.77	40.38	38.46	1.92	1.54	38.84	3563.93
	04/13/10	3602.77	40.42	38.50	1.92	1.54	38.88	3563.89
	04/19/10	3602.77	40.40	38.50	1.90	1.52	38.88	3563.89
	04/20/10	3602.77	39.80	39.51	0.29	0.23	39.57	3563.20
	04/26/10	3602.77	40.38	38.51	1.87	1.50	38.88	3563.89
	05/03/10	3602.77	39.26	39.21	0.05	0.04	39.22	3563.55
	05/14/10	3602.77	40.40	38.34	2.06	1.65	38.75	3564.02
	05/20/10	3602.77	40.10	39.56	0.54	0.43	39.67	3563.10
	05/27/10	3602.77	39.30	39.25	0.05	0.04	39.26	3563.51
	06/01/10	3602.77	40.38	38.62	1.76	1.41	38.97	3563.80
	06/07/10	3602.77	39.38	39.30	0.08	0.06	39.32	3563.45
	06/15/10	3602.77	40.44	38.67	1.77	1.42	39.02	3563.75
	06/28/10	3602.77	39.44	39.38	0.06	0.05	39.39	3563.38
	07/06/10	3602.77	40.40	38.66	1.74	1.39	39.01	3563.76
	07/13/10	3602.77	40.42	38.26	2.16	1.73	38.69	3564.08
	07/19/10	3602.77	39.26	38.90	0.36	0.29	38.97	3563.80
	07/26/10	3602.77	40.39	38.09	2.30	1.84	38.55	3564.22
	07/27/10	3602.77	38.98	38.45	0.53	0.42	38.56	3564.21
	07/28/10	3602.77	40.06	37.50	2.56	2.05	38.01	3564.76
	08/09/10	3602.77	39.03	38.58	0.45	0.36	38.67	3564.10
	08/16/10	3602.77	40.05	39.89	0.16	0.13	39.92	3562.85
	08/30/10	3602.77	40.05	37.80	2.25	1.80	38.25	3564.52
	09/10/10	3602.77	38.65	38.60	0.05	0.04	38.61	3564.16
	09/13/10	3602.77	39.57	37.74	1.83	1.46	38.11	3564.66
	09/20/10	3602.77	39.80	37.70	2.10	1.68	38.12	3564.65
	09/27/10	3602.77	38.70	38.28	0.42	0.34	38.36	3564.41
	10/04/10	3602.77	38.60	38.32	0.28	0.22	38.38	3564.39
	10/12/10	3602.77	39.82	37.73	2.09	1.67	38.15	3564.62
	10/19/10	3602.77	38.80	38.39	0.41	0.33	38.47	3564.30
	10/25/10	3602.77	40.00	37.75	2.25	1.80	38.20	3564.57
	11/01/10	3602.77	40.17	37.82	2.35	1.88	38.29	3564.48
	11/09/10	3602.77	40.40	37.82	2.58	2.06	38.34	3564.43

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.	11/22/10	3602.77	39.12	38.68	0.44	0.35	38.77	3564.00
	12/06/10	3602.77	39.45	38.22	1.23	0.98	38.47	3564.30
	01/03/11	3602.77	40.40	38.14	2.26	1.81	38.59	3564.18
	01/10/11	3602.77	40.45	38.21	2.24	1.79	38.66	3564.11
	01/17/11	3602.77	40.44	38.25	2.19	1.75	38.69	3564.08
	01/29/11	3602.77	40.45	38.23	2.22	1.78	38.67	3564.10
	01/31/11	3602.77	40.40	38.29	2.11	1.69	38.71	3564.06
	02/07/11	3602.77	39.70	38.19	1.51	1.21	38.49	3564.28
	02/15/11	3602.77	40.42	38.33	2.09	1.67	38.75	3564.02
	03/01/11	3602.77	40.47	38.45	2.02	1.62	38.85	3563.92
	03/07/11	3602.77	40.45	38.48	1.97	1.58	38.87	3563.90
	03/21/11	3602.77	39.56	39.14	0.42	0.34	39.22	3563.55
	03/28/11	3602.77	39.71	39.20	0.51	0.41	39.30	3563.47
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
	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

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.	11/21/06	3599.83	33.82	33.74	0.08	0.06	33.76	3566.07
	11/28/06	3599.83	33.84	33.72	0.12	0.10	33.74	3566.09
	12/05/06	3599.83	33.94	33.76	0.18	0.14	33.80	3566.03
	12/11/06	3599.83	33.81	33.76	0.05	0.04	33.77	3566.06
	12/18/06	3599.83	33.94	33.86	0.08	0.06	33.88	3565.95
	01/02/07	3599.83	34.10	33.97	0.13	0.10	34.00	3565.83
	01/08/07	3599.83	34.13	34.01	0.12	0.10	34.03	3565.80
	01/23/07	3599.83	34.41	33.90	0.51	0.41	34.00	3565.83
	02/05/07	3599.83	34.47	34.23	0.24	0.19	34.28	3565.55
	02/26/07	3599.83	34.78	34.33	0.45	0.36	34.42	3565.41
	03/05/07	3599.83	35.09	34.35	0.74	0.59	34.50	3565.33
	03/13/07	3599.83	35.31	34.38	0.93	0.74	34.57	3565.26
	03/19/07	3599.83	35.35	34.42	0.93	0.74	34.61	3565.22
	03/26/07	3599.83	35.43	34.45	0.98	0.78	34.65	3565.18
	04/02/07	3599.83	35.20	34.55	0.65	0.52	34.68	3565.15
	04/23/07	3599.83	35.34	34.44	0.90	0.72	34.62	3565.21
	05/01/07	3599.83	35.54	34.60	0.94	0.75	34.79	3565.04
	05/29/07	3599.83	35.57	34.64	0.93	0.74	34.83	3565.00
	06/04/07	3599.83	34.90	34.74	0.16	0.13	34.77	3565.06
	06/11/07	3599.83	34.87	34.73	0.14	0.11	34.76	3565.07
	06/18/07	3599.83	34.78	34.78	0.00	0.00	34.78	3565.05
	06/26/07	3599.83	34.78	34.65	0.13	0.10	34.68	3565.15
	07/09/07	3599.83	34.93	34.65	0.28	0.22	34.71	3565.12
	07/17/07	3599.83	34.99	34.66	0.33	0.26	34.73	3565.10
	07/23/07	3599.83	35.04	34.63	0.41	0.33	34.71	3565.12
	07/30/07	3599.83	34.73	34.73	0.00	0.00	34.73	3565.10
	08/07/07	3599.83	34.73	34.73	0.00	0.00	34.73	3565.10
	08/20/07	3599.83	34.94	34.76	0.18	0.14	34.80	3565.03
	08/27/07	3599.83	35.06	34.78	0.28	0.22	34.84	3564.99
	09/04/07	3599.83	35.16	34.80	0.36	0.29	34.87	3564.96
	09/10/07	3599.83	35.01	34.83	0.18	0.14	34.87	3564.96
	09/25/07	3599.83	35.13	34.67	0.46	0.37	34.76	3565.07
	10/02/07	3599.83	34.67		0.00	0.00	34.67	3565.16
	10/11/07	3599.83	35.29	34.45	0.84	0.67	34.62	3565.21
	10/22/07	3599.83	35.24	34.23	1.01	0.81	34.43	3565.40
	10/31/07	3599.83	34.51	34.46	0.05	0.04	34.47	3565.36
	11/12/07	3599.83	35.41	34.28	1.13	0.90	34.51	3565.32
	11/19/07	3599.83	34.55	34.47	0.08	0.06	34.49	3565.34
	12/05/07	3599.83	35.77	34.34	1.43	1.14	34.63	3565.20
	12/10/07	3599.83	34.66	34.65	0.01	0.01	34.65	3565.18
	12/20/07	3599.83	35.84	34.50	1.34	1.07	34.77	3565.06
	01/02/08	3599.83	35.73	34.68	1.05	0.84	34.89	3564.94
	01/07/08	3599.83	35.59	34.74	0.85	0.68	34.91	3564.92
	01/28/08	3599.83	35.69	34.63	1.06	0.85	34.84	3564.99
	02/12/08	3599.83	35.35	35.04	0.31	0.25	35.10	3564.73
	02/26/08	3599.83	35.31	35.16	0.15	0.12	35.19	3564.64
	03/11/08	3599.83	36.32	35.08	1.24	0.99	35.33	3564.50
	03/17/08	3599.83	35.37	35.27	0.10	0.08	35.29	3564.54
	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

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.	11/10/08	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
	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
	03/29/10	3602.77	38.09	37.29	0.80	0.64	37.45	3565.32
	04/05/10	3602.77	38.12	37.32	0.80	0.64	37.48	3565.29
	04/13/10	3602.77	38.17	37.35	0.82	0.66	37.51	3565.26
	04/19/10	3602.77	38.22	37.32	0.90	0.72	37.50	3565.27
	04/20/10	3602.77	37.62	37.45	0.17	0.14	37.48	3565.29
	04/26/10	3602.77	39.38	37.12	2.26	1.81	37.57	3565.20
	05/03/10	3602.77	37.72	37.50	0.22	0.18	37.54	3565.23
	05/14/10	3602.77	39.63	37.13	2.50	2.00	37.63	3565.14
	05/20/10	3602.77	37.99	37.46	0.53	0.42	37.57	3565.20
	05/27/10	3602.77	37.76	37.55	0.21	0.17	37.59	3565.18

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.	06/01/10	3602.77	39.26	37.27	1.99	1.59	37.67	3565.10
	06/07/10	3602.77	37.81	37.60	0.21	0.17	37.64	3565.13
	06/15/10	3602.77	39.57	37.25	2.32	1.86	37.71	3565.06
	06/28/10	3602.77	38.81	37.51	1.30	1.04	37.77	3565.00
	07/06/10	3602.77	39.12	37.27	1.85	1.48	37.64	3565.13
	07/13/10	3602.77	38.29	36.65	1.64	1.31	36.98	3565.79
	07/19/10	3602.77	37.40	36.88	0.52	0.42	36.98	3565.79
	07/26/10	3602.77	37.88	36.67	1.21	0.97	36.91	3565.86
	07/27/10	3602.77	36.83	36.80	0.03	0.02	36.81	3565.96
	07/28/10	3602.77	37.17	36.74	0.43	0.34	36.83	3565.94
	08/09/10	3602.77	37.85	36.46	1.39	1.11	36.74	3566.03
	08/16/10	3602.77	37.58	36.43	1.15	0.92	36.66	3566.11
	08/30/10	3602.77	37.09	36.35	0.74	0.59	36.50	3566.27
	09/08/10	3602.77	37.15	36.27	0.88	0.70	36.45	3566.32
	09/13/10	3602.77	36.62	36.35	0.27	0.22	36.40	3566.37
	09/20/10	3602.77	36.62	36.35	0.27	0.22	36.40	3566.37
	09/27/10	3602.77	37.30	36.20	1.10	0.88	36.42	3566.35
	10/04/10	3602.77	36.65	36.35	0.30	0.24	36.41	3566.36
	10/12/10	3602.77	37.67	36.19	1.48	1.18	36.49	3566.28
	10/19/10	3602.77	36.75	36.43	0.32	0.26	36.49	3566.28
	10/25/10	3602.77	37.80	36.20	1.60	1.28	36.52	3566.25
	11/01/10	3602.77	36.79	36.51	0.28	0.22	36.57	3566.20
	11/09/10	3602.77	36.81	36.55	0.26	0.21	36.60	3566.17
	11/22/10	3602.77	36.83	36.66	0.17	0.14	36.69	3566.08
	12/06/10	3602.77	38.69	36.42	2.27	1.82	36.87	3565.90
	01/03/11	3602.77	39.29	36.59	2.70	2.16	37.13	3565.64
	01/10/11	3602.77	37.15	37.06	0.09	0.07	37.08	3565.69
	01/24/11	3602.77	38.26	36.95	1.31	1.05	37.21	3565.56
	01/31/11	3602.77	38.08	37.05	1.03	0.82	37.26	3565.51
	02/07/11	3602.77	39.02	36.92	2.10	1.68	37.34	3565.43
	02/15/11	3602.77	39.47	36.91	2.56	2.05	37.42	3565.35
	03/01/11	3602.77	37.68	37.35	0.33	0.26	37.42	3565.35
	03/07/11	3602.77	37.66	37.38	0.28	0.22	37.44	3565.33
	03/21/11	3602.77	38.07	37.42	0.65	0.52	37.55	3565.22
	03/28/11	3602.77	38.87	37.50	1.37	1.10	37.77	3565.00
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

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.	02/01/06	3602.11	36.43	36.10	0.33	0.26	36.17	3565.94
	02/16/06	3602.11	36.53	36.22	0.31	0.25	36.28	3565.83
	03/06/06	3602.11	36.54	36.40	0.14	0.11	36.43	3565.68
	03/29/06	3602.11	36.84	36.55	0.29	0.23	36.61	3565.50
	04/04/06	3602.11	36.70	36.62	0.08	0.06	36.64	3565.47
	04/11/06	3602.11	36.82	36.65	0.17	0.14	36.68	3565.43
	04/17/06	3602.11	37.47	36.58	0.89	0.71	36.76	3565.35
	04/24/06	3602.11	37.86	36.52	1.34	1.07	36.79	3565.32
	05/03/06	3602.11	37.00	36.83	0.17	0.14	36.86	3565.25
	05/31/06	3602.11	37.90	36.89	1.01	0.81	37.09	3565.02
	06/09/06	3602.11	37.98	36.94	1.04	0.83	37.15	3564.96
	06/12/06	3602.11	37.43	37.14	0.29	0.23	37.20	3564.91
	06/26/06	3602.11	37.79	37.12	0.67	0.54	37.25	3564.86
	07/05/06	3602.11	38.10	37.13	0.97	0.78	37.32	3564.79
	07/10/06	3602.11	37.57	37.27	0.30	0.24	37.33	3564.78
	07/17/06	3602.11	37.91	37.31	0.60	0.48	37.43	3564.68
	07/24/06	3602.11	38.58	37.06	1.52	1.22	37.36	3564.75
	08/02/06	3602.11	38.92	37.15	1.77	1.42	37.50	3564.61
	08/14/06	3602.11	38.84	37.24	1.60	1.28	37.56	3564.55
	08/28/06	3602.11	39.27	37.18	2.09	1.67	37.60	3564.51
	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

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.	01/02/08	3602.11	39.81	37.31	2.50	2.00	37.81	3564.30
	01/07/08	3602.11	39.30	37.67	1.63	1.30	38.00	3564.11
	01/28/08	3602.11	40.51	37.19	3.32	2.66	37.85	3564.26
	02/12/08	3602.11	39.83	37.69	2.14	1.71	38.12	3563.99
	02/26/08	3602.11	38.95	38.08	0.87	0.70	38.25	3563.86
	03/11/08	3602.11	39.58	37.91	1.67	1.34	38.24	3563.87
	03/17/08	3602.11	39.11	38.17	0.94	0.75	38.36	3563.75
	03/24/08	3602.11	39.30	38.30	1.00	0.80	38.50	3563.61
	03/31/08	3602.11	39.25	38.33	0.92	0.74	38.51	3563.60
	04/14/08	3602.11	39.23	38.49	0.74	0.59	38.64	3563.47
	04/21/08	3602.11	41.13	37.66	3.47	2.78	38.35	3563.76
	04/28/08	3602.11	39.24	38.64	0.60	0.48	38.76	3563.35
	05/20/08	3602.11	41.98	38.02	3.96	3.17	38.81	3563.30
	06/02/08	3602.11	42.19	38.14	4.05	3.24	38.95	3563.16
	06/09/08	3602.11	42.18	38.19	3.99	3.19	38.99	3563.12
	06/16/08	3602.11	42.16	38.15	4.01	3.21	38.95	3563.16
	06/30/08	3602.11	42.20	38.25	3.95	3.16	39.04	3563.07
	07/14/08	3602.11	42.17	38.31	3.86	3.09	39.08	3563.03
	07/21/08	3602.11	41.92	38.09	3.83	3.06	38.86	3563.25
	08/06/08	3602.11	42.19	38.39	3.80	3.04	39.15	3562.96
	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	39.00	3.25	2.60	39.65	3562.46
	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

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.	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
	03/29/10	3602.11	40.59	40.40	0.19	0.15	40.44	3561.67
	04/05/10	3602.11	40.66	40.40	0.26	0.21	40.45	3561.66
	04/13/10	3602.11	41.75	39.62	2.13	1.70	40.05	3562.06
	04/19/10	3602.11	41.75	39.83	1.92	1.54	40.21	3561.90
	04/20/10	3602.11	40.79	40.72	0.07	0.06	40.73	3561.38
	04/26/10	3602.11	41.72	39.62	2.10	1.68	40.04	3562.07
	05/03/10	3602.11	40.76	40.73	0.03	0.02	40.74	3561.37
	05/14/10	3602.11	42.20	39.30	2.90	2.32	39.88	3562.23
	05/20/10	3602.11	40.87	40.70	0.17	0.14	40.73	3561.38
	05/27/10	3602.11	40.73	40.59	0.14	0.11	40.62	3561.49
	06/01/10	3602.11	40.80	40.55	0.25	0.20	40.60	3561.51
	06/07/10	3602.11	40.78	39.74	1.04	0.83	39.95	3562.16
	06/15/10	3602.11	40.91	40.65	0.26	0.21	40.70	3561.41
	06/28/10	3602.11	40.82	40.73	0.09	0.07	40.75	3561.36
	07/06/10	3602.11	40.82	40.68	0.14	0.11	40.71	3561.40
	07/13/10	3602.11	41.80	39.39	2.41	1.93	39.87	3562.24
	07/19/10	3602.11	41.80	39.38	2.42	1.94	39.86	3562.25
	07/26/10	3602.11	41.90	39.18	2.72	2.18	39.72	3562.39
	07/27/10	3602.11	40.48	39.50	0.98	0.78	39.70	3562.41
	07/28/10	3602.11	41.78	39.14	2.64	2.11	39.67	3562.44
	08/09/10	3602.11	41.75	39.00	2.75	2.20	39.55	3562.56
	08/16/10	3602.11	41.77	38.98	2.79	2.23	39.54	3562.57
	08/30/10	3602.11	40.44	39.18	1.26	1.01	39.43	3562.68
	09/08/10	3602.11	40.16	39.10	1.06	0.85	39.31	3562.80
	09/13/10	3602.11	41.43	38.80	2.63	2.10	39.33	3562.78
	09/20/10	3602.11	41.48	38.68	2.80	2.24	39.24	3562.87
	09/27/10	3602.11	40.50	39.42	1.08	0.86	39.64	3562.47
	10/04/10	3602.11	40.60	39.43	1.17	0.94	39.66	3562.45
	10/12/10	3602.11	41.42	38.76	2.66	2.13	39.29	3562.82
	10/19/10	3602.11	41.78	38.78	3.00	2.40	39.38	3562.73
	10/25/10	3602.11	41.77	38.75	3.02	2.42	39.35	3562.76
	11/01/10	3602.11	41.80	38.85	2.95	2.36	39.44	3562.67
	11/09/10	3602.11	40.10	40.10	0.00	0.00	40.10	3562.01
	11/22/10	3602.11	41.75	38.94	2.81	2.25	39.50	3562.61
	12/06/10	3602.11	40.26	40.25	0.01	0.01	40.25	3561.86
	01/03/11	3602.11	41.74	39.18	2.56	2.05	39.69	3562.42
	01/17/11	3602.11	41.74	39.17	2.57	2.06	39.68	3562.43
	01/24/11	3602.11	41.77	39.30	2.47	1.98	39.79	3562.32
	01/31/11	3602.11	41.75	39.36	2.39	1.91	39.84	3562.27
	02/07/11	3602.11	41.75	39.40	2.35	1.88	39.87	3562.24
	02/15/11	3602.11	41.75	39.49	2.26	1.81	39.94	3562.17
	03/01/11	3602.11	41.75	39.57	2.18	1.74	40.01	3562.10
	03/07/11	3602.11	41.78	39.67	2.11	1.69	40.09	3562.02
	03/21/11	3602.11	41.38	39.70	1.68	1.34	40.04	3562.07
	03/28/11	3602.11	41.78	39.71	2.07	1.66	40.12	3561.99
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

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.	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
	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

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.	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
	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

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.	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
	03/29/10	3598.87	38.20	0.00	0.00	0.00	38.20	3560.67
	04/05/10	3598.87	40.05	36.92	3.13	2.50	37.55	3561.32
	04/13/10	3598.87	38.26	0.00	0.00	0.00	38.26	3560.61
	04/19/10	3598.87	39.83	37.04	2.79	2.23	37.60	3561.27
	04/26/10	3598.87	39.43	37.03	2.40	1.92	37.51	3561.36
	05/03/10	3598.87	38.20	0.00	0.00	0.00	38.20	3560.67
	05/14/10	3598.87	40.44	36.98	3.46	2.77	37.67	3561.20
	05/20/10	3598.87	38.12	38.11	0.01	0.01	38.11	3560.76
	05/27/10	3598.87	39.85	37.10	2.75	2.20	37.65	3561.22
	06/01/10	3598.87	38.11	0.00	0.00	0.00	38.11	3560.76
	06/07/10	3598.87	39.12	37.28	1.84	1.47	37.65	3561.22
	06/15/10	3598.87	38.40	38.02	0.38	0.30	38.10	3560.77
	06/28/10	3598.87	39.63	37.29	2.34	1.87	37.76	3561.11
	07/13/10	3598.87	38.91	36.22	2.69	2.15	36.76	3562.11
	07/19/10	3598.87	37.73	37.39	0.34	0.27	37.46	3561.41
	07/26/10	3598.87	38.24	36.48	1.76	1.41	36.83	3562.04
	07/27/10	3598.87	36.81	36.78	0.03	0.02	36.79	3562.08
	07/28/10	3598.87	37.02	36.61	0.41	0.33	36.69	3562.18
	08/09/10	3598.87	38.35	36.30	2.05	1.64	36.71	3562.16
	08/16/10	3598.87	37.42	37.40	0.02	0.02	37.40	3561.47
	08/30/10	3598.87	37.93	36.16	1.77	1.42	36.51	3562.36
	09/08/10	3598.87	37.18	37.17	0.01	0.01	37.17	3561.70
	09/13/10	3598.87	37.15	36.19	0.96	0.77	36.38	3562.49
	09/20/10	3598.87	36.66	36.65	0.01	0.01	36.65	3562.22
	09/27/10	3598.87	37.35	36.15	1.20	0.96	36.39	3562.48
	10/04/10	3598.87	36.93	36.92	0.01	0.01	36.92	3561.95
	10/12/10	3598.87	37.56	36.18	1.38	1.10	36.46	3562.41
	10/19/10	3598.87	37.01	37.00	0.01	0.01	37.00	3561.87
	10/25/10	3598.87	37.35	36.24	1.11	0.89	36.46	3562.41
	11/01/10	3598.87	37.36	36.76	0.60	0.48	36.88	3561.99
	11/09/10	3598.87	36.87	36.86	0.01	0.01	36.86	3562.01
	11/22/10	3598.87	38.25	36.33	1.92	1.54	36.71	3562.16
	12/06/10	3598.87	37.56	37.53	0.03	0.02	37.54	3561.33
	01/03/11	3598.87	39.50	36.50	3.00	2.40	37.10	3561.77
	01/17/11	3598.87	37.50	36.98	0.52	0.42	37.08	3561.79
	01/24/11	3598.87	39.68	36.65	3.03	2.42	37.26	3561.61
	01/31/11	3598.87	38.60	36.88	1.72	1.38	37.22	3561.65

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.	02/07/11	3598.87	40.23	36.66	3.57	2.86	37.37	3561.50
	02/15/11	3598.87	39.12	36.91	2.21	1.77	37.35	3561.52
	03/01/11	3598.87	37.57	37.32	0.25	0.20	37.37	3561.50
	03/07/11	3598.87	37.43	37.42	0.01	0.01	37.42	3561.45
	03/21/11	3598.87	37.93	37.51	0.42	0.34	37.59	3561.28
	03/28/11	3598.87	37.68	37.65	0.03	0.02	37.66	3561.21
MW-9 (NIW-4)	02/27/01	3601.05	34.80		0.00	0.00	34.80	3566.25
	06/25/01	3601.05	35.78	35.11	0.67	0.54	35.24	3565.81
	09/25/01	3601.05	37.54	35.19	2.35	1.88	35.66	3565.39
	06/23/03	3601.05	38.80	34.55	4.25	3.40	35.40	3565.65
MW-10 (NIW-5)	02/27/01	3602.96	36.27		0.00	0.00	36.27	3566.69
	06/25/01	3602.96	36.69		0.00	0.00	36.69	3566.27
	09/25/01	3602.96	37.13		0.00	0.00	37.13	3565.83
	12/11/01	3602.96	37.49		0.00	0.00	37.49	3565.47
	05/20/02	3602.96	37.87		0.00	0.00	37.87	3565.09
MW-11	02/27/01	3600.67	32.13		0.00	0.00	32.13	3568.54
	06/25/01	3600.67	32.56		0.00	0.00	32.56	3568.11
	09/25/01	3600.67	32.99		0.00	0.00	32.99	3567.68
	12/11/01	3600.67	33.33		0.00	0.00	33.33	3567.34
	05/20/02	3600.67	33.83		0.00	0.00	33.83	3566.84
MW-12 (NIW-2)	02/27/01	3599.35	31.82		0.00	0.00	31.82	3567.53
	06/25/01	3599.35	32.23		0.00	0.00	32.23	3567.12
	09/25/01	3599.35	32.63		0.00	0.00	32.63	3566.72
	12/11/01	3599.35	32.94		0.00	0.00	32.94	3566.41
	05/20/02	3599.35	33.46		0.00	0.00	33.46	3565.89
MW-13	02/27/01	3601.67	36.44		0.00	0.00	36.44	3565.23
	06/25/01	3601.67	36.83		0.00	0.00	36.83	3564.84
	09/25/01	3601.67	37.23		0.00	0.00	37.23	3564.44
	12/11/01	3601.67	37.57		0.00	0.00	37.57	3564.10
	05/20/02	3601.67	38.04		0.00	0.00	38.04	3563.63
	08/28/02	3601.67	38.30		0.00	0.00	38.30	3563.37
	08/29/02	3601.67	38.30		0.00	0.00	38.30	3563.37
	11/07/02	3601.67	38.49		0.00	0.00	38.49	3563.18
	11/22/02	3601.67	38.45		0.00	0.00	38.45	3563.22
	11/29/02	3601.67	38.44		0.00	0.00	38.44	3563.23
	12/17/02	3601.67	38.37		0.00	0.00	38.37	3563.30
	12/18/02	3601.67	38.40		0.00	0.00	38.40	3563.27
	01/14/03	3601.67	38.39		0.00	0.00	38.39	3563.28
	02/24/03	3601.67	38.54		0.00	0.00	38.54	3563.13
	02/25/03	3601.67	38.52		0.00	0.00	38.52	3563.15
	03/04/03	3601.67	38.55		0.00	0.00	38.55	3563.12
	03/14/03	3601.67	38.57		0.00	0.00	38.57	3563.10
	04/07/03	3601.67	38.63		0.00	0.00	38.63	3563.04
	04/11/03	3601.67	38.63		0.00	0.00	38.63	3563.04
	04/23/03	3601.67	38.65		0.00	0.00	38.65	3563.02
	07/14/03	3601.67	38.95		0.00	0.00	38.95	3562.72
	10/15/03	3601.67	39.35		0.00	0.00	39.35	3562.32
	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

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

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-13 cont.	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					
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

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.	10/25/04	3597.87	31.92		0.00	0.00	31.92	3565.95
	01/24/05	3597.87	30.56		0.00	0.00	30.56	3567.31
	04/18/05	3597.87	30.44		0.00	0.00	30.44	3567.43
	07/18/05	3597.87	30.84		0.00	0.00	30.84	3567.03
	10/17/05	3597.87	30.96		0.00	0.00	30.96	3566.91
	10/19/05	3597.87	30.87	30.85	0.02	0.02	30.85	3567.02
	11/03/05	3597.87	30.91		0.00	0.00	30.91	3566.96
	11/10/05	3597.87	30.95	30.94	0.01	0.01	30.94	3566.93
	11/16/05	3597.87	30.98		0.00	0.00	30.98	3566.89
	11/22/05	3597.87	30.96		0.00	0.00	30.96	3566.91
	12/06/05	3597.87	30.98		0.00	0.00	30.98	3566.89
	12/12/05	3597.87	31.02		0.00	0.00	31.02	3566.85
	12/21/05	3597.87	31.05		0.00	0.00	31.05	3566.82
	01/04/06	3597.87	31.14		0.00	0.00	31.14	3566.73
	01/11/06	3597.87	31.16		0.00	0.00	31.16	3566.71
	01/23/06	3597.87	31.16		0.00	0.00	31.16	3566.71
	04/24/06	3597.87	31.69		0.00	0.00	31.69	3566.18
	07/24/06	3597.87	32.14		0.00	0.00	32.14	3565.73
	10/23/06	3597.87	34.96	34.95	0.01	0.01	34.95	3562.92
	01/23/07	3597.87	32.09		0.00	0.00	32.09	3565.78
	04/23/07	3597.87	32.50		0.00	0.00	32.50	3565.37
	07/23/07	3597.87	32.75	32.75	0.00	0.00	32.75	3565.12
	10/22/07	3597.87	32.75		0.00	0.00	32.75	3565.12
	01/28/08	3597.87	32.91	32.90	0.01	0.01	32.90	3564.97
	04/21/08	3597.87	33.17		0.00	0.00	33.17	3564.70
	07/21/08	3597.87	33.60		0.00	0.00	33.60	3564.27
	10/21/08	3597.87	33.92		0.00	0.00	33.92	3563.95
	01/19/09	3597.87	34.08	34.07	0.01	0.01	34.07	3563.80
	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
	04/26/10	3597.87	35.35		0.00	0.00	35.35	3562.52
	07/26/10	3597.87	34.91		0.00	0.00	34.91	3562.96
	10/25/10	3597.87	34.55		0.00	0.00	34.55	3563.32
	01/24/11	3597.87	35.30		0.00	0.00	35.30	3562.57
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

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

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
IW-3 cont.	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
	04/26/10	3597.30	36.24		0.00	0.00	36.24	3561.06
	07/26/10	3597.30	35.56		0.00	0.00	35.56	3561.74
	10/25/10	3597.30	35.40		0.00	0.00	35.40	3561.90
	01/24/11	3597.30	36.14		0.00	0.00	36.14	3561.16
IW-4	06/05/02	3596.13	32.12		0.00	0.00	32.12	3564.01
	06/07/02	3596.13	32.14		0.00	0.00	32.14	3563.99
	06/08/02	3596.13	32.17		0.00	0.00	32.17	3563.96
	08/28/02	3596.13	32.45		0.00	0.00	32.45	3563.68
	08/29/02	3596.13	32.41		0.00	0.00	32.41	3563.72
	10/25/02	3596.13	32.62		0.00	0.00	32.62	3563.51
	11/06/02	3596.13	32.68		0.00	0.00	32.68	3563.45
	01/14/03	3596.13	32.63		0.00	0.00	32.63	3563.50
	02/26/03	3596.13	32.71		0.00	0.00	32.71	3563.42
	04/23/03	3596.13	32.74		0.00	0.00	32.74	3563.39
	06/23/03	3596.13	33.03		0.00	0.00	33.03	3563.10
	07/14/03	3596.13	32.45		0.00	0.00	32.45	3563.68
	10/15/03	3596.13	33.49		0.00	0.00	33.49	3562.64
	01/19/04	3596.13	33.79		0.00	0.00	33.79	3562.34
	04/19/04	3596.13	33.85		0.00	0.00	33.85	3562.28
	07/20/04	3596.13	33.60		0.00	0.00	33.60	3562.53
	10/25/04	3596.13	32.10		0.00	0.00	32.10	3564.03
	01/24/05	3596.13	30.59		0.00	0.00	30.59	3565.54
	04/18/05	3596.13	30.60		0.00	0.00	30.60	3565.53
	07/18/05	3596.13	31.13		0.00	0.00	31.13	3565.00
	10/17/05	3596.13	31.28		0.00	0.00	31.28	3564.85
	10/19/05	3596.13	31.25	31.23	0.02	0.02	31.23	3564.90
	11/03/05	3596.13	31.22		0.00	0.00	31.22	3564.91
	11/10/05	3596.13	31.33		0.00	0.00	31.33	3564.80
	11/16/05	3596.13	31.36		0.00	0.00	31.36	3564.77
	11/22/05	3596.13	31.25	31.24	0.01	0.01	31.24	3564.89
	12/06/05	3596.13	31.39		0.00	0.00	31.39	3564.74
	12/12/05	3596.13	31.43	31.42	0.01	0.01	31.42	3564.71
	12/21/05	3596.13	31.47		0.00	0.00	31.47	3564.66
	01/04/06	3596.13	31.45		0.00	0.00	31.45	3564.68
	01/11/06	3596.13	31.58	31.57	0.01	0.01	31.57	3564.56
	01/23/06	3596.13	31.63		0.00	0.00	31.63	3564.50
	04/24/06	3596.13	32.11	32.10	0.01	0.01	32.10	3564.03
	07/24/06	3596.13	32.59	32.58	0.01	0.01	32.58	3563.55
	10/23/06	3596.13	32.27	32.25	0.02	0.02	32.25	3563.88
	01/23/07	3596.13	32.50		0.00	0.00	32.50	3563.63
	04/23/07	3596.13	32.96	32.93	0.03	0.02	32.94	3563.19
	07/23/07	3596.13	33.21	33.15	0.06	0.05	33.16	3562.97
	10/22/07	3596.13	33.07	33.05	0.02	0.02	33.05	3563.08
	01/28/08	3596.13	33.28	33.27	0.01	0.01	33.27	3562.86
	04/21/08	3596.13	33.59		0.00	0.00	33.59	3562.54
	07/21/08	3596.13	33.98		0.00	0.00	33.98	3562.15
	10/20/08	3596.13	34.28		0.00	0.00	34.28	3561.85
	01/19/09	3596.13	34.40	34.39	0.01	0.01	34.39	3561.74
	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
	04/26/10	3596.13	35.61		0.00	0.00	35.61	3560.52
	07/26/10	3596.13	35.11		0.00	0.00	35.11	3561.02
	10/25/10	3596.13	34.75		0.00	0.00	34.75	3561.38
	01/24/11	3596.13	35.54		0.00	0.00	35.54	3560.59

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	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
	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
	04/26/10	3599.89	40.19		0.00	0.00	40.19	3559.70
	07/26/10	3599.89	39.59		0.00	0.00	39.59	3560.30
	10/25/10	3599.89	39.25		0.00	0.00	39.25	3560.64
	01/24/11	3599.89	39.97		0.00	0.00	39.97	3559.92
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

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

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
IW-6 cont.	01/24/05	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		
	07/26/10	3599.71	dry		0.00	0.00		
	10/25/10	3599.71	dry		0.00	0.00		
	01/24/11	3599.71	dry		0.00	0.00		
IW-7	06/05/02	3600.64	35.70		0.00	0.00	35.70	3564.94
	06/07/02	3600.64	35.77		0.00	0.00	35.77	3564.87
	06/08/02	3600.64	35.81		0.00	0.00	35.81	3564.83
	08/28/02	3600.64	36.03		0.00	0.00	36.03	3564.61
	08/29/02	3600.64	36.07		0.00	0.00	36.07	3564.57
	10/25/02	3600.64	36.25		0.00	0.00	36.25	3564.39
	11/06/02	3600.64	35.94		0.00	0.00	35.94	3564.70
	01/14/03	3600.64	35.95		0.00	0.00	35.95	3564.69
	02/26/03	3600.64	35.42		0.00	0.00	35.42	3565.22
	04/23/03	3600.64	35.90		0.00	0.00	35.90	3564.74
	06/23/03	3600.64	36.66		0.00	0.00	36.66	3563.98
	07/14/03	3600.64	36.75		0.00	0.00	36.75	3563.89
	10/15/03	3600.64	36.86		0.00	0.00	36.86	3563.78
	01/19/04	3600.64	37.50		0.00	0.00	37.50	3563.14
	04/19/04	3600.64	37.36		0.00	0.00	37.36	3563.28
	07/20/04	3600.64	37.06		0.00	0.00	37.06	3563.58
	10/25/04	3600.64	34.00		0.00	0.00	34.00	3566.64
	01/24/05	3600.64	32.36		0.00	0.00	32.36	3568.28
	04/18/05	3600.64	33.07		0.00	0.00	33.07	3567.57
	07/18/05	3600.64	34.15		0.00	0.00	34.15	3566.49
	10/17/05	3600.64	33.99		0.00	0.00	33.99	3566.65
	10/19/05	3600.64	33.96	33.95	0.01	0.01	33.95	3566.69
	11/03/05	3600.64	33.95		0.00	0.00	33.95	3566.69
	11/10/05	3600.64	33.98	33.97	0.01	0.01	33.97	3566.67
	11/16/05	3600.64	34.05		0.00	0.00	34.05	3566.59
	11/22/05	3600.64	34.03		0.00	0.00	34.03	3566.61
	11/29/05	3600.64	34.15		0.00	0.00	34.15	3566.49
	12/06/05	3600.64	35.05		0.00	0.00	35.05	3565.59
	12/12/05	3600.64	34.29	34.26	0.03	0.02	34.27	3566.37
	12/21/05	3600.64	34.40	34.37	0.03	0.02	34.38	3566.26
	01/04/06	3600.64	34.56	34.52	0.04	0.03	34.53	3566.11
	01/11/06	3600.64	34.59	34.56	0.03	0.02	34.57	3566.07
	01/23/06	3600.64	34.72	34.66	0.06	0.05	34.67	3565.97
	04/24/06	3600.64	35.42	35.37	0.05	0.04	35.38	3565.26
	07/24/06	3600.64	36.00	35.97	0.03	0.02	35.98	3564.66

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.	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
	04/26/10	3600.64	38.89		0.00	0.00	38.89	3561.75
	07/26/10	3600.64	38.07		0.00	0.00	38.07	3562.57
	10/25/10	3600.64	37.65		0.00	0.00	37.65	3562.99
	01/24/11	3600.64	38.58		0.00	0.00	38.58	3562.06
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
	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

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.	07/27/09	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
	04/26/10	3598.68	35.54		0.00	0.00	35.54	3563.14
	07/26/10	3598.68	34.70		0.00	0.00	34.70	3563.98
	10/25/10	3598.68	34.47		0.00	0.00	34.47	3564.21
	01/24/11	3598.68	35.34		0.00	0.00	35.34	3563.34
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						
	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
RW-1	12/13/10	3602.53	38.53	37.87	0.66	0.53	38.00	3564.53
	12/15/10	3602.53	38.64	37.86	0.78	0.62	38.02	3564.51
	01/03/11	3602.53	39.75	37.86	1.89	1.51	38.24	3564.29
	01/04/11	3602.53	38.42	38.12	0.30	0.24	38.18	3564.35
	01/10/11	3602.53	38.45	38.17	0.28	0.22	38.23	3564.30
	01/17/11	3602.53	38.67	38.17	0.50	0.40	38.27	3564.26
	01/24/11	3602.53	39.49	38.08	1.41	1.13	38.36	3564.17
	01/31/11	3602.53	40.09	38.05	2.04	1.63	38.46	3564.07
	02/07/11	3602.53	40.53	38.03	2.50	2.00	38.53	3564.00
	02/14/11	3602.53	40.89	38.04	2.85	2.28	38.61	3563.92
	02/15/11	3602.53	39.94	38.21	1.73	1.38	38.56	3563.97

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
RW-2	12/13/10	3602.04	40.74	37.55	3.19	2.55	38.19	3563.85
	12/15/10	3602.04	40.94	37.55	3.39	2.71	38.23	3563.81
	01/03/11	3602.04	41.70	37.61	4.09	3.27	38.43	3563.61
	01/04/11	3602.04	41.69	37.62	4.07	3.26	38.43	3563.61
	01/10/11	3602.04	41.40	37.72	3.68	2.94	38.46	3563.58
	01/17/11	3602.04	40.98	37.84	3.14	2.51	38.47	3563.57
	01/24/11	3602.04	41.97	37.72	4.25	3.40	38.57	3563.47
	01/31/11	3602.04	42.00	37.78	4.22	3.38	38.62	3563.42
	02/07/11	3602.04	42.35	37.78	4.57	3.66	38.69	3563.35
	02/14/11	3602.04	42.52	37.82	4.70	3.76	38.76	3563.28
	02/15/11	3602.04	41.60	37.98	3.62	2.90	38.70	3563.34
RW-3	12/13/10	3601.34	38.42	37.27	1.15	0.92	37.50	3563.84
	12/15/10	3601.34	38.70	37.24	1.46	1.17	37.53	3563.81
	01/03/11	3601.34	39.78	37.25	2.53	2.02	37.76	3563.58
	01/04/11	3601.34	39.75	37.25	2.50	2.00	37.75	3563.59
	01/10/11	3601.34	37.91	37.63	0.28	0.22	37.69	3563.65
	01/17/11	3601.34	37.82	37.68	0.14	0.11	37.71	3563.63
	01/24/11	3601.34	39.24	37.50	1.74	1.39	37.85	3563.49
	01/31/11	3601.34	39.43	37.52	1.91	1.53	37.90	3563.44
	02/07/11	3601.34	39.69	37.58	2.11	1.69	38.00	3563.34
	02/14/11	3601.34	40.09	37.53	2.56	2.05	38.04	3563.30
	02/15/11	3601.34	38.76	37.76	1.00	0.80	37.96	3563.38
RW-4	12/13/10	3602.30	40.58	37.58	3.00	2.40	38.18	3564.12
	12/15/10	3602.30	40.98	37.59	3.39	2.71	38.27	3564.03
	01/03/11	3602.30	42.28	37.56	4.72	3.78	38.50	3563.80
	01/04/11	3602.30	41.49	37.71	3.78	3.02	38.47	3563.83
	01/10/11	3602.30	40.24	37.98	2.26	1.81	38.43	3563.87
	01/17/11	3602.30	38.43	38.39	0.04	0.03	38.40	3563.90
	01/24/11	3602.30	41.28	37.88	3.40	2.72	38.56	3563.74
	01/31/11	3602.30	39.69	38.22	1.47	1.18	38.51	3563.79
	02/07/11	3602.30	41.29	38.02	3.27	2.62	38.67	3563.63
	02/14/11	3602.30	42.09	37.95	4.14	3.31	38.78	3563.52
	02/15/11	3602.30	39.17	38.44	0.73	0.58	38.59	3563.71

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	07/27/10	89	<1.0	10	5.4	104.4	0.41	0.51
	10/26/10	270	<1.0	52	31	353.0	0.90	0.18
IW-2	04/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.77
	07/27/10	<1.0	<1.0	<1.0	<1.0	BDL	0.24	6.5
	10/26/10	<1.0	<1.0	<1.0	1.0	1.0	<0.10	1.1
	01/25/11	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	7.0
IW-3	04/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.23
	07/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.80
	10/26/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	<0.05
	01/25/11	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.86
IW-4	04/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	14
	07/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	7.9
	10/26/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	8.2
	01/25/11	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	79
IW-5	04/27/10	1.4	1.2	<1.0	<1.0	2.6	0.39	3.4
	07/27/10	<1.0	1.2	<1.0	1.7	2.9	0.34	2.9
	10/26/10	1.2	1.1	<1.0	1.4	3.7	0.27	12
	01/25/11	<1.0	1.3	<1.0	1.5	2.8	0.38	22
IW-7	04/27/10	<1.0	<1.0	<1.0	1.4	1.4	0.51	85
	04/27/10 D	<1.0	<1.0	<1.0	1.4	1.4	0.52	86
	07/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	23
	07/27/10 D	<1.0	<1.0	<1.0	1.2	1.2	0.25	36
	10/26/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	6.1
	10/26/10 D	<1.0	<1.0	<1.0	1.0	1.0	<0.10	2.3
	01/25/11	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	20
	01/25/11 D	<1.0	<1.0	<1.0	<1.0	BDL	0.10	17
SVE-1	04/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.15
	07/27/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	0.19
	10/26/10	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	<0.05
	01/25/11	<1.0	<1.0	<1.0	<1.0	BDL	<0.10	<0.20

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
	07/27/10	89	<1.0	10	5.4	104.4	0.41	0.51
	10/26/10	270	<1.0	52	31	353.0	0.90	0.18
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

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.	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
	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
	04/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.77
	07/27/10	<1.0	<1.0	<1.0	<1.0	0.0	0.24	6.5
	10/26/10	<1.0	<1.0	<1.0	1.0	1.0	<0.10	1.1
	01/25/11	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	7.0
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
	04/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.23
	07/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.80
	10/26/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	<0.05
	01/25/11	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.86
IW-4	08/29/02	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	0.0	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	04/20/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.20
	07/21/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	<0.048
	10/26/04	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.082
	01/25/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	0.31
	04/19/05	2.6	3.0	5.4	8.2	19.2	0.33	10

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

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
IW-4 cont.	07/19/05	<1.0	<1.0	<1.0	<3.0	0.0	<0.10	1.1
	10/18/05	32	1.5	2.6	14	50.1	0.98	70
	01/24/06	17	2.2	1.9	9.3	30.4	0.79	35
	04/25/06	13	1.0	8.4	10.0	32.4	1.2	56
	07/25/06	6.1	<1.0	11.0	9.0	26.1	1.4	52
	10/24/06	4.2 F	<1.0	8.2 F	7.8	20.2	1.5	120
	01/24/07	2.6	<1.0	<1.0	7.2	9.8	1.4	0.10
	04/24/07	2.1	<1.0	9.8	4.6	16.5	0.88	88
	07/24/07	3.5	11	6.6	7.9	29.0	0.52	26
	10/23/07	1.8	<1.0	5.1	<3.0	6.9	0.57	53
	01/29/08	1.2	<1.0	<1.0	<1.0	1.2	0.42	51
	04/22/08	<1.0	<1.0	<1.0	1.3	1.3	0.51	51
	07/22/08	<1.0	<1.0	<1.0	1.1	1.1	0.32	55
	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
	04/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	14
	07/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	7.9
	10/26/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	8.2
	01/25/11	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	79
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
	04/27/10	1.4	1.2	<1.0	<1.0	2.6	0.39	3.4
	07/27/10	<1.0	1.2	<1.0	1.7	2.9	0.34	2.9
	10/26/10	1.2	1.1	<1.0	1.4	3.7	0.27	12
	01/25/11	<1.0	1.3	<1.0	1.5	2.8	0.38	22
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

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-6 cont.	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
	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
	04/27/10	<1.0	<1.0	<1.0	1.4	1.4	0.51	85
	04/27/10 D	<1.0	<1.0	<1.0	1.4	1.4	0.52	86
	07/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	23
	07/27/10 D	<1.0	<1.0	<1.0	1.2	1.2	0.25	36
	10/26/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	6.1
	10/26/10 D	<1.0	<1.0	<1.0	1.0	1.0	<0.10	2.3
	01/25/11	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	20
	01/25/11 D	<1.0	<1.0	<1.0	<1.0	0.0	0.10	17
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

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)
SVE-1	10/21/08	<1.0	<1.0	<1.0	<1.0	0.0		<0.05
cont.	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
	04/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.15
	07/27/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	0.19
	10/26/10	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	<0.05
	01/25/11	<1.0	<1.0	<1.0	<1.0	0.0	<0.10	<0.20

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			
	07/27/10	149			
	10/26/10	172			
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			

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.	04/19/05	146			
	07/19/05	125			
	10/18/05	107			
	01/24/06	105			
	04/25/06	110		0.69	0.13
	07/25/06	68.9			
	10/24/06	80.8			
	01/24/07	83.9			
	04/24/07	82.0		0.33	
	07/24/07	71.5			
	10/23/07	77.5			
	01/29/08	78.4			
	04/22/08	83.3		0.28	0.00606
	07/22/08	74.1			
	10/21/08	73.8			
	01/20/09	78.2			
	04/21/09	66.6		0.183	0.00994
	07/28/09	68.3			
	10/27/09	80.5			
	01/26/10	71.7			
	04/27/10	67.2		0.113	0.00516
	07/27/10	86.0			
	10/26/10	90.1			
	01/25/11	74.5			
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			
	04/27/10	75.0		0.0503	0.0155
	07/27/10	46.4			
	10/26/10	90.0			
	01/25/11	75.9			
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			

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.	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			
	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			
	04/27/10	86.9		0.241	0.0637
	07/27/10	56.9			
	10/26/10	94.3			
	01/25/11	81.8			
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			
	04/27/10	85.5		3.34	0.110
	07/27/11	96.7			
	10/26/10	137			
	01/25/11	147			
IW-6	08/29/02	92		7.16	
	01/15/03	100			
	04/23/03	132		0.27	
	07/14/03	120			

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-6 cont.	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			
	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			
	04/27/10	71.6		0.194	0.0452
	04/27/10 D	73.6		0.147	0.0446
	07/27/10	68.2			
	07/27/10 D	68.2			
	10/26/10	73.2			
	10/26/10 D	82.2			
	01/25/11	61.8			
	01/25/11 D	62.8			
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			

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)
SVE-1 cont.	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			
	04/27/10	118		0.0416	0.00876
	07/27/10	17.2			
	10/26/10	63.1			
	01/25/11	124			

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	IW-7 D	SVE-1	WQCC Standards
Chloride	67.2	75.0	86.9	85.5	71.6	73.6	118	250
Aluminum	0.0672	0.0571	0.0709	0.0524	0.0585	0.0632	0.0603	5.0
Arsenic	0.00772	0.0101	0.0244	0.0207	0.0241	0.0235	0.0064	0.1
Barium	0.113	0.124	0.258	0.705	0.206	0.2	0.108	1.0
Boron	0.170	0.184	0.155	0.342	0.275	0.262	0.254	0.75
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Cobalt	<0.005	<0.005	0.00582	<0.005	<0.005	<0.005	<0.005	0.05
Copper	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1.0
Iron	0.113	0.0503	0.241	**3.34**	0.194	0.147	0.0416	1.0
Lead	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Manganese	0.00516	0.0155	0.0637	0.110	0.0452	0.0446	0.00876	0.2
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Molybdenum	<0.01	<0.01	0.0164	0.0221	0.0312	0.0355	<0.01	1.0
Nickel	<0.005	0.021	0.0369	0.00881	<0.005	<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	<0.01	0.015	0.0128	<0.01	<0.01	<0.01	<0.01	10
Uranium (pCi/L)								
U-234	0.168	0.263	0.842	0.174	0.45	0.453	0.686	
U-235	0.004	0.006	0.021	0.023	0.004	<0.012	0.009	
U-238	0.08	0.138	0.567	0.113	0.224	0.25	0.416	
PAH Analytes (µg/L)								
1-Methylnaphthalene	0.36	<0.051	9.6	2.5	**48**	**51**	<0.054	30
2-Methylnaphthalene	<0.053	<0.051	<0.26	<0.27	7.5	8.4	<0.054	30
Acenaphthene	<0.053	<0.051	<0.26	<0.27	<0.25	<0.26	<0.054	
Acenaphthylene	<0.053	<0.051	<0.26	<0.27	<0.25	<0.26	<0.054	
Anthracene	<0.053	<0.051	<0.26	<0.27	<0.25	<0.26	<0.054	
Benzo(a)anthracene	<0.053	<0.051	1.5	<0.27	1.3	0.97	<0.054	
Benzo(a)pyrene	<0.74	<0.71	<3.6	<3.8	<3.5	<3.7	<0.76	0.7
Benzo(b)fluoranthene	<0.053	<0.051	0.92	<0.27	0.56	0.70	<0.054	
Benzo(g,h,i)perylene	<0.053	<0.051	<0.26	<0.27	<0.25	<0.26	<0.054	
Benzo(k)fluoranthene	<0.053	<0.051	<0.26	<0.27	<0.25	<0.26	<0.054	
Chrysene	0.18	<0.051	3.6	0.99	2.5	3.0	<0.054	
Dibenz(a,h)anthracene	<0.053	<0.051	<0.26	<0.27	<0.25	<0.26	<0.054	
Dibenzofuran	0.13	<0.051	5.9	5.4	12	13	<0.054	
Fluoranthene	<0.053	<0.051	1.6	0.48	1.2	1.5	<0.054	
Fluorene	0.15	<0.051	7.2	2.1	10	11	<0.054	
Indeo(1,2,3-cd)pyrene	<0.053	<0.051	<0.26	<0.27	<0.25	<0.26	<0.054	
Naphthalene	<0.053	<0.051	<0.26	0.69	5.3	5.4	<0.054	30
Phenanthrene	0.24	<0.051	14	5.8	17	19	<0.054	
Pyrene	0.16	<0.051	3.4	0.97	2.5	2.9	<0.054	

Notes:
Samples collected on 04/27/2010
mg/L = Milligrams per liter
µg/L = Micrograms per liter
pCi/L = picoCuries per liter

WQCC = New Mexico Water Quality Control Commission
PAH = Polynuclear Aromatic Hydrocarbons (SW846 - 8270C)
D = Duplicate sample
Blank fields indicate no data

Exceeds standards per 20.6.2.3103 NMAC

APPENDIX A

New Mexico State Engineer's Approved Well Permits, Submitted Well Drillers Logs, Surveyors Log, and Well Boring Logs for Four (4) New Crude Oil Recovery Wells

John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 469946
File Nbr: L 12631

Nov. 17, 2010

GREG POPE
TETRA TECH-FOR CONOCOPHILLIPS
1910 NORTH BIG SPRING STREET
MIDLAND, TX 79705

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 11/30/2011, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 11/30/2011.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

Melinda Spivey
(575)622-6521

Enclosure

explore

File Number: L-12631
(For OSE Use Only)

NEW MEXICO OFFICE OF THE STATE ENGINEER
APPLICATION FOR PERMIT
TO DRILL AN EXPLORATORY WELL

02-29016
20

1. APPLICANT:

Name: Tetra Tech (for ConocoPhillips) Work Phone: (432) 682-4559
Contact: Greg Pope Home Phone: (432) 661-3852
Address: 1910 N. Big Spring St.
City: Midland State: TX Zip: 79705

2. LOCATION OF WELL (A, B, C, or D required, E or F if known):

A. NW 1/4 SE 1/4 SW 1/4 Section: 09 Township: 19S Range: 38E N.M.P.M.
in _____ County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 40 m 12.05 s Longitude: 103 d 09 m 25.20 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD ___ 27 ___ 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number of existing well: _____

I. On land owned by (required): Occidental Permian, Ltd.

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2010 NOV 17 PM 10:57

3. WELL INFORMATION:

Approximate depth 60 feet; Outside diameter of casing 6 inches.
Name of well driller and driller license number Straub Corporation, 4456.

4. ADDITIONAL STATEMENT OR EXPLANATIONS:

RW-1 groundwater remediation well for ConocoPhillips Line NM1-1 Remediation Site (NMOCD AP-10, Groundwater Discharge Permit GW-349), to be used as hydrocarbon skimming well, groundwater removal not anticipated.

Do Not Write Below This Line

File Number: L-12631 POD 1 Trn Number: 469946
Form: wr-07 page 1 of 2

File Number: L-12631
(For OSE Use Only)

NEW MEXICO OFFICE OF THE STATE ENGINEER
APPLICATION FOR PERMIT
TO DRILL AN EXPLORATORY WELL

02-29016
20*

1. APPLICANT:

Name: Tetra Tech (for ConocoPhillips) Work Phone: (432) 682-4559
Contact: Greg Pope Home Phone: (432) 661-3852
Address: 1910 N. Big Spring St.
City: Midland State: TX Zip: 79705

2. LOCATION OF WELL (A, B, C, or D required, E or F if known):

A. NW 1/4 SE 1/4 SW 1/4 Section: 09 Township: 19S Range: 38E N.M.P.M.
in _____ County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 40 m 10.99 s Longitude: 103 d 09 m 24.29 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number of existing well: _____

I. On land owned by (required): Occidental Permian, Ltd.

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2018 NOV 17 AM 10 56

3. WELL INFORMATION:

Approximate depth 60 feet; Outside diameter of casing 6 inches.
Name of well driller and driller license number Straub Corporation, 4456.

4. ADDITIONAL STATEMENT OR EXPLANATIONS:

RW-2 groundwater remediation well for ConocoPhillips Line NM1-1 Remediation Site (NMOCD AP-10, Groundwater Discharge Permit GW-349), to be used as hydrocarbon skimming well, groundwater removal not anticipated.

Do Not Write Below This Line

File Number: L-12631 POD2 Trn Number: 469946
Form: wr-07 page 1 of 2

File Number: L-12631
(For OSE Use Only)

NEW MEXICO OFFICE OF THE STATE ENGINEER
APPLICATION FOR PERMIT
TO DRILL AN EXPLORATORY WELL

02-29015
20

1. APPLICANT:

Name: Tetra Tech (for ConocoPhillips) Work Phone: (432) 682-4559
Contact: Greg Pope Home Phone: (432) 661-3852
Address: 1910 N. Big Spring St.
City: Midland State: TX Zip: 79705

2. LOCATION OF WELL (A, B, C, or D required, E or F if known):

A. NW 1/4 SE 1/4 SW 1/4 Section: 09 Township: 19S Range: 38E N.M.P.M.
in _____ County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 40 m 10.78 s Longitude: 103 d 09 m 25.30 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County

G. Other: _____

H. Give State Engineer File Number of existing well: _____

I. On land owned by (required): Occidental Permian, Ltd.

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2010 NOV 17 AM 10 58

3. WELL INFORMATION:

Approximate depth 60 feet; Outside diameter of casing 6 inches.
Name of well driller and driller license number Straub Corporation, 4456.

4. ADDITIONAL STATEMENT OR EXPLANATIONS:

RW-3 groundwater remediation well for ConocoPhillips Line NM1-1 Remediation Site (NMOCD AP-10, Groundwater Discharge Permit GW-349), to be used as hydrocarbon skimming well, groundwater removal not anticipated.

Do Not Write Below This Line

File Number: L-12631 POD3 Trn Number: 469946
Form: wr-07 page 1 of 2

File Number: L-12631
(For OSE Use Only)

02-29014
20

NEW MEXICO OFFICE OF THE STATE ENGINEER
APPLICATION FOR PERMIT
TO DRILL AN EXPLORATORY WELL

1. APPLICANT:

Name: Tetra Tech (for ConocoPhillips) Work Phone: (432) 682-4559
Contact: Greg Pope Home Phone: (432) 661-3852
Address: 1910 N. Big Spring St.
City: Midland State: TX Zip: 79705

2. LOCATION OF WELL (A, B, C, or D required, E or F if known):

A. SW 1/4 SE 1/4 SW 1/4 Section: 09 Township: 19S Range: 38E N.M.P.M.
in _____ County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 40 m 09.59 s Longitude: 103 d 09 m 24.74 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number of existing well: _____

I. On land owned by (required): Occidental Permian, Ltd.

2009 NOV 17 AM 10 58
STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

3. WELL INFORMATION:

Approximate depth 60 feet; Outside diameter of casing 6 inches.
Name of well driller and driller license number Straub Corporation, 4456.

4. ADDITIONAL STATEMENT OR EXPLANATIONS:

RW-4 groundwater remediation well for ConocoPhillips Line NM1-1 Remediation Site (NMOCD AP-10, Groundwater Discharge Permit GW-349), to be used as hydrocarbon skimming well, groundwater removal not anticipated.

Do Not Write Below This Line

File Number: L-12631 POD 4 Trn Number: 469946
Form: wr-07 page 1 of 2

File Number: L-12631
(For OSE Use Only)

NEW MEXICO OFFICE OF THE STATE ENGINEER
APPLICATION FOR PERMIT
TO DRILL AN EXPLORATORY WELL

ACKNOWLEDGEMENT

(I, We) **Greg Pope, as Agent for ConocoPhillips** affirm that the
(Please Print)
foregoing statements are true to the best of my ~~knowledge~~ and belief.

14/15/10
Applicant Signature

Tim Reed
Applicant Signature

ACTION OF STATE ENGINEER

This application is ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare, and further subject to the following conditions:

SEE ATTACHED CONDITIONS OF APPROVAL

Witness my hand and seal this 17 day of **November**, 20 **10**

John R. D'Antonio, Jr., P.E., State Engineer

By: Andy Morley
Andy Morley, Staff Manager

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2010 NOV 17 AM 10 56

Do Not Write Below This Line

File Number: L-12631
Form: wr-07

Trn Number: 469946

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

1B Depth of the well shall not exceed the thickness of the Ogallala formation.

4 No water shall be appropriated and beneficially used under this permit.

B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.

C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.

C2 No water shall be diverted from this well except for testing purposes which shall not exceed ~~ten~~ (10) cumulative days, and well shall be plugged or capped on or before , unless a permit to use water from this well is acquired from the Office of the State Engineer.

LOG The Point of Diversion L 12631 POD1 must be completed and the Well Log filed on or before 11/30/2011.

LOG The Point of Diversion L 12631 POD2 must be completed and the Well Log filed on or before 11/30/2011.

LOG The Point of Diversion L 12631 POD3 must be completed and the Well Log filed on or before 11/30/2011.

Trn Desc: L 12631

File Number: L 12631
Trn Number: 469946

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion L 12631 POD4 must be completed and the Well Log filed on or before 11/30/2011.

The wells shall be constructed, maintained and operated such that each water shall be confined to the aquifer in which it is encountered.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 11/17/2010	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 17 day of Nov A.D., 2010

John R. D Antonio, Jr., P.E. , State Engineer

By: Andy Morley
Andy Morley

Trn Desc: L 12631

File Number: L 12631
Trn Number: 469946

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
McNEAL LEASE RW-1	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
CONOCO-PHILLIPS	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
1354 PHILLIPS BUILDING - 420 S. KEELER	BARTLESVILLE / OK / 74074

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	40	12.00	N
	LONGITUDE	103	9	25.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS
6/10 WEST GRIMES OR TRUCK BY PASS HOBBS NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	RAYMOND STRAUB JR	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-1-10	12-7-10	52	60	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 38.07

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
52	22	10	SCH 40 .020 SCREEN	FJ	6		0.020
22	+36	10	SCH 40 PVC RISER	FJ	6		RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	53	21	10	49 BAGS 8/16 SAND	24.5	TOPLOAD
	21	2	10	10 BAGS OF HOLEPLUG	7	TOPLOAD
	0	2	10	2 BAGS OF CEMENT	1.6	TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	3	3	CALICHE (DENSE)	☐ YES ☑ NO
3	11	8	CALICHE	☐ YES ☑ NO
11	15	3	DENSE SILICEOUS CALICHE	☐ YES ☑ NO
15	20	5	DENSE LAYERED CALICHE	☐ YES ☑ NO
20	23	3	SILICEOUS CAILCHE	☐ YES ☑ NO
23	25	2	TAN FINE CALCIFIED SAND	☐ YES ☑ NO
25	30	5	TAN CALCIFIED SILICEOUS SANDSTONE	☑ YES ☐ NO
30	38	8	TAN COARSE SAND (DENSE)	☑ YES ☐ NO
38	42	4	TAN SANDSTONE	☑ YES ☐ NO
42	55	13	TAN SAND (DENSE)	☑ YES ☐ NO
55	60	5	LIGHT BROWN SANDSTONE	☑ YES ☐ NO
TD	60		DENSE SANDSTONE	☑ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

8X8X60 HIGH RISE, 4X4 CONCRETE PAD
LEA COUNTY
HYDROCARBON - DEPTH OF STRATA 37
52 - 60 PLUG BACK

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 1-7-2011

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
McNEAL LEASE RW-2	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
CONOCO-PHILLIPS	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
1354 PHILLIPS BUILDING - 420 S. KEELER	BARTLESVILLE / OK / 74074

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	40	11.00	N
	LONGITUDE	103	9	25.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS
6/10 WEST GRIMES OR TRUCK BY PASS HOBBS NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	RAYMOND STRAUB JR	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-2-10	12-7-10	60	60	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 37

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
60	30	10	SCH 40 .020 SCREEN	FJ	6		0.020
30	+36	10	SCH 40 PVC RISER	FJ	6		RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	60	27	10	52 BAGS 8/16 SAND	26	TOPLOAD
	27	2	10	13 BAGS OF HOLEPLUG	9	TOPLOAD
	0	2	10	2 BAGS OF CEMENT	1.6	TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	6"	6"	RED CLAY FILL	☐ YES ☑ NO
6"	6		INDURATED CALICHE	☐ YES ☑ NO
6	18	12	SANDY CALICHE	☐ YES ☑ NO
18	19.5	1.5	DENSE CALIHCE	☐ YES ☑ NO
19.5	23	3.5	SILICEOUS CALICHE	☐ YES ☑ NO
23	38	15	BRN TAN CALCAREOUS SAND W/INDURATED CALICHE LAYER	☐ YES ☑ NO
38	48	10	DENSE SILICEOUS SANDSTONE	☐ YES ☑ NO
48	52	4	DENSE SAND	☐ YES ☑ NO
52	60	68	DENSE SANDSTONE LAYERS	☐ YES ☑ NO
TD	60			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

8X8X60 HIGH RISE, 4X4 CONCRETE PAD
LEA COUNTY
HYDROCARBON - DEPTH OF STRATA 37

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER

1-7-2011
DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
McNEAL LEASE RW-3	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
CONOCO-PHILLIPS	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
1354 PHILLIPS BUILDING - 420 S. KEELER	BARTLESVILLE / OK / 74074

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	40	13.00	N
LONGITUDE	103	9	26.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

6/10 WEST GRIMES OR TRUCK BY PASS HOBBS NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	RAYMOND STRAUB JR	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-3-10	12-7-10	60	60	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 37

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
60	30	10	SCH 40 .020 SCREEN	FJ	6		0.020
30	+42	10	SCH 40 PVC RISER	FJ	6		RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	60	28	10	58 BAGS 8/16 SAND	29	TOPLOAD
	28	2	10	15 BAGS OF HOLEPLUG	10.3	TOPLOAD
	0	2	10	2 BAGS OF CEMENT	1.6	TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	6"	6"	BROWN SILTY SAND	☐ YES ☑ NO
6"	1.5		CALICHE COBBLES	☐ YES ☑ NO
1.5	16.5	15	CALICHE	☐ YES ☑ NO
16.5	28	11.5	SILICEOUS SAND CALICHE	☐ YES ☑ NO
28	36	8	LIGHT BROWN W SILCEOUS COBBLES	☐ YES ☑ NO
36	40	4	BROWN SILICEOUS SANDSTONE	☐ YES ☑ NO
40	47	7	LIGHT BROWN SAND	☑ YES ☐ NO
47	48	1	SILICEOUS SANDSTONE	☑ YES ☐ NO
48	55	7	LIGHT BROWN SAND (DENSE)	☑ YES ☐ NO
55	60	5	LIGHT BROWN SAND	☑ YES ☐ NO
TD	60			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST
METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:
TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:
8X8X60 HIGH RISE, 4X4 CONCRETE PAD
LEA COUNTY
HYDROCARBON - DEPTH OF STRATA 37

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER

1-7-2011
DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
McNEAL LEASE MW-4	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
CONOCO-PHILLIPS	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
1354 PHILLIPS BUILDING - 420 S. KEELER	BARTLESVILLE / OK / 74074

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	40	13.00	N
	LONGITUDE	103	9	25.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

6/10 WEST GRIMES OR TRUCK BY PASS HOBBS NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	RAYMOND STRAUB JR	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-6-10	12-7-10	60	60	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 37.95

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
60	30	10	SCH 40 .020 SCREEN	FJ	6		0.020
30	+42	10	SCH 40 PVC RISER	FJ	6		RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	60	27	10	60 BAGS 8/16 SAND	30	TOPLOAD
	27	2	10	10 BAGS OF HOLEPLUG	6.9	TOPLOAD
	0	2	10	2 BAGS OF CEMENT	1.6	TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	6"	6"	RED BROWN CLAY	☐ YES ☑ NO
6"	2		CALICHE COBBLES	☐ YES ☑ NO
2	10	8	DENSE CALICHE	☐ YES ☑ NO
10	18	8	SANDY CALICHE	☐ YES ☑ NO
18	21	3	DENSE CALICHE	☐ YES ☑ NO
21	41	20	TAN CALCAREOUS SANDSTONE - WITH CHERTY LAYERS	☐ YES ☑ NO
41	43	2	BROWN SAND	☑ YES ☐ NO
43	55	12	LIGHT BROWN CALCIFIED SAND	☑ YES ☐ NO
55	60	5	BROWN SAND	☑ YES ☐ NO
TD	60			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST
METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:
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ADDITIONAL STATEMENTS OR EXPLANATIONS:
8X8X60 HIGH RISE, 4X4 CONCRETE PAD
LEA COUNTY
HYDROCARBON - DEPTH OF STRATA 37.95

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 1-7-2011

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

SECTION 9, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M.
LEA COUNTY NEW MEXICO



RW-1						
NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELEVATION TOP OF CASING	ELEVATION CONCRETE PAD	ELEVATION NATURAL GROUND
N:609473.3	E:903327.8	32°40'11.90"N	103°09'25.12"W	3602.53	3599.51	3598.98

RW-2						
NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELEVATION TOP OF CASING	ELEVATION CONCRETE PAD	ELEVATION NATURAL GROUND
N:609383.7	E:903392.8	32°40'11.01"N	103°09'24.37"W	3602.04	3599.03	3598.60

RW-3						
NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELEVATION TOP OF CASING	ELEVATION CONCRETE PAD	ELEVATION NATURAL GROUND
N:609338.8	E:903358.7	32°40'10.57"N	103°09'24.78"W	3601.34	3598.17	3597.86

RW-4						
NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELEVATION TOP OF CASING	ELEVATION CONCRETE PAD	ELEVATION NATURAL GROUND
N:609419.0	E:903366.5	32°40'11.36"N	103°09'24.68"W	3602.30	3599.26	3598.92

LEGEND

● – Denotes Recovery Well

NOTE:

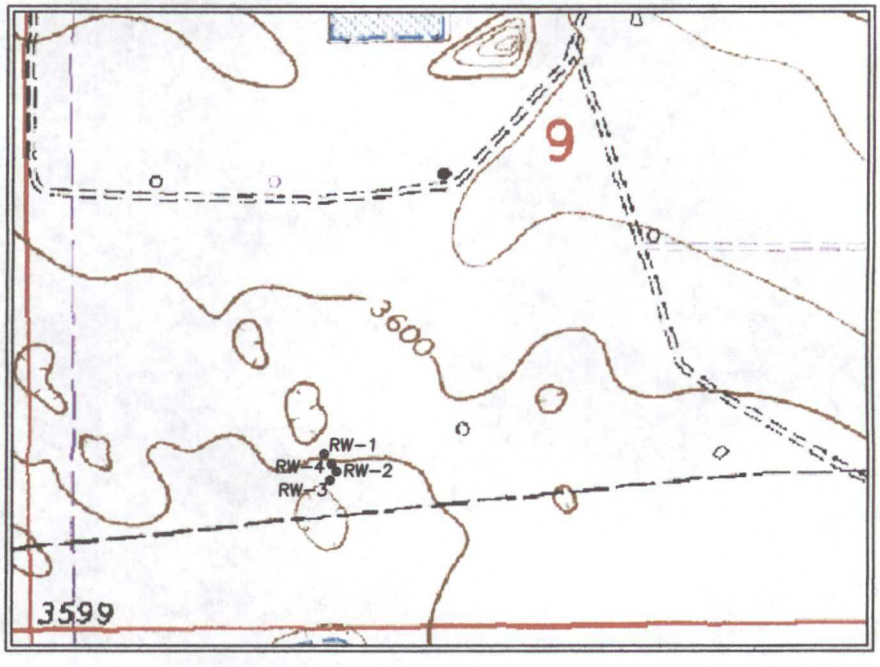
1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1983.

2) Elevations reference the North American Vertical Datum of 1988.

3) Geodetic Coordinates shown hereon references the North American Datum of 1983, (Clarke Spheroid of 1866). Reference Stations – "ODESSA RRP2" – CORS (DF5393), "LUBBOCK RRP2" – CORS (DF5391) and "PORTALESAP NM 2005" – CORS (DF5391).

SURVEYOR CERTIFICATION

I hereby certify that the monitoring well locations shown on this plat were plotted from field notes of an actual survey made by me or under my direct supervision and the same is true an correct to the best of my belief.



1000 0 1000 2000

Graphic Scale in Feet

MACON McDONALD NEW MEXICO 12185 REGISTERED PROFESSIONAL SURVEYOR

MACON McDONALD N.M. P.L.S. No. 12185

WEST COMPANY of MIDLAND, INC.

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 – (432) 687-0868 FAX

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TETRA TECH

Elevation Survey of

4 CRUDE OIL RECOVERY WELLS Located At Line NM1-1

Located in Section 9
Township 19 South, Range 38 East, N.M.P.M.
Lea County, New Mexico

Drawn By: DWG	Date: February 1, 2011
Scale: 1" = 1000'	Field Book: 489/49-51
Revision Date:	Quadrangle: Hobbs West
W.O. No: 2011-0204	Dwg. No.: T:Dan/TETRA TECH/2011-0203

TETRA TECH, INC.

CRUDE OIL RECOVERY WELL LOG

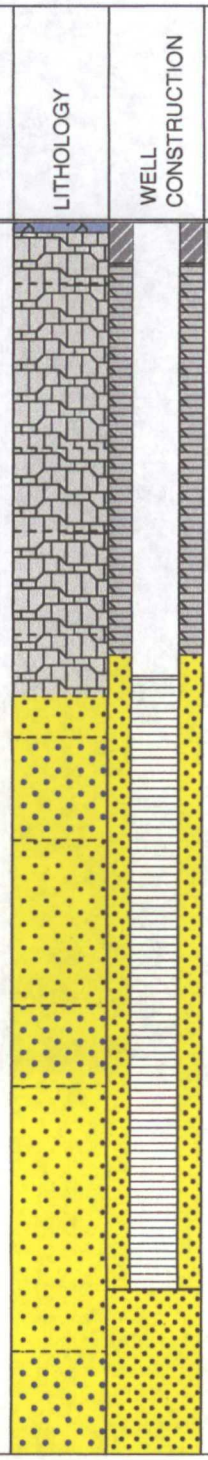
RW-1

BORING/WELL NO.

CLIENT/PROJECT: ConocoPhillips
LOCATION: Line NM1-1
COUNTY, STATE: Lea County, NM
LOGGED BY: Greg W. Pope
DATE/TIME START: 12-1-10/14:15
DATE/TIME FINISH: 12-1-10/15:20

PROJECT NUMBER: 114-6400667
DRILLING CO: Straub Corporation
DRILL TYPE: 30K Air Rotary
BORING DIAMETER: 10 inches
GROUND SURFACE ELEVATION: 3598.98
GPS COORDINATES (N/E): 609473.3 903327.8

DEPTH (feet-bgs)	SAMPLE NUMBER	SAMPLE INTERVAL	PID READING (ppm)	LITHOLOGIC DESCRIPTION	USCS SYMBOL
0			0.0	TOPSOIL: Brown Sandy Loam Topsoil	
			0.2	CALICHE: pale red (10R 6/3), sandy, dense, dry, v fine sand.	
5				CALICHE: white (5YR 8/1), sandy, mod dense, dry, v fine sand.	
			0.2		
10					
			0.5	CALICHE: AA, becomes dense, siliceous, dry.	
15					
			2.6 BZ-49.8	CALICHE: AA, with siliceous interbeds, dry.	
20				CALICHE: AA, dense, siliceous.	
			587	SAND: pink (5YR 7/3), firm, fine-v fine, calcareous, sl. moist, sl. HC odor.	
25				SANDSTONE: pink (7.5YR 7/3), dense, fine-v fine, calcareous, siliceous, sl. moist, HC odor.	
			830		
30				SAND: brown (7.5YR 5/4), dense, coarse-v fine, moist, strong HC odor.	
			1190 BZ-72		
35					
			650		
40				SANDSTONE: brown (7.5YR 4/4), dense, fine-v fine, moist, strong HC odor, HC staining.	
			BZ-94 BH-204	SAND: dark brown (7.5YR 3/4), dense, fine-v fine, wet, strong HC odor, oil recov w/ water.	
45					
			184 BZ-74.5		
50					
55				SANDSTONE: dark brown (7.5YR 3/4), dense, fine-v fine, wet, with v hard siliceous interbeds, strong HC odor, oily.	
60					



WELL COMPLETION	% RECOVERY	SYMBOLS	ELEVATION (feet-msl)
			3595
			3590
			3585
			3580
			3575
			3570
			3565
			3560
			3555
			3550
			3545
			3540

WELL COMPLETION INFORMATION

Measuring Point Description : Top of Casing
Measuring Point Elevation (ft MSL): 3602.53
Boring Total Depth (ft BGS): 60
Initial Water Level (ft BTOC): 38.07

Type of Casing / Screen: PVC
Casing Diameter (inches): 6
Well Screen Slot Size (inch): 0.020
Well Completion: Above Ground Security Casing

TETRA TECH, INC.

CRUDE OIL RECOVERY WELL LOG

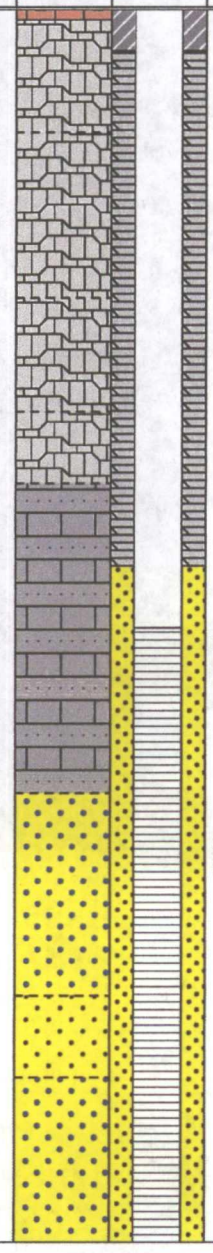
RW-2

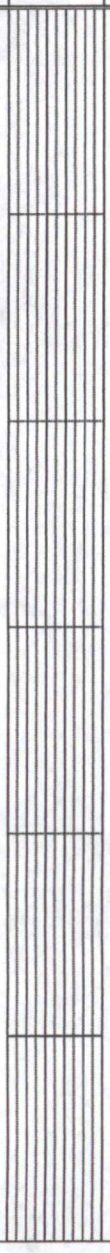
BORING/WELL NO.

CLIENT/PROJECT: ConocoPhillips
LOCATION: Line NM1-1
COUNTY, STATE: Lea County, NM
LOGGED BY: Greg W. Pope
DATE/TIME START: 12-2-10/12:48
DATE/TIME FINISH: 12-2-10/15:20

PROJECT NUMBER: 114-6400667
DRILLING CO: Straub Corporation
DRILL TYPE: 30K Air Rotary
BORING DIAMETER: 10 inches
GROUND SURFACE ELEVATION: 3598.60
GPS COORDINATES (N/E): 609383.7 903392.8

DEPTH (feet-bgs)	SAMPLE NUMBER	SAMPLE INTERVAL	PID READING (ppm)	LITHOLOGIC DESCRIPTION	USCS SYMBOL
0			0.0	CLAY: red, fill.	
			0.1	CALICHE: pale red (2.5YR 7/3), indurated, hard, dry.	
5			1.4	CALICHE: pinkish white (5YR 8/2), sandy, dense, dry, v fine sand.	
10			7.2		
15			37.2	CALICHE: white (5YR 8/1), dense, dry.	
20			71.5	CALICHE: pink (5YR 7/4), siliceous, dense, dry.	
25			1084	SAND AND CALICHE INTERBEDDED: light brown (7.5YR 6/4), indurated caliche debris, dense, calcareous v fine sand, dry, strong HC odor. @ 35 fr, becomes strong brown (7.5YR 5/6), moist.	
30			429		
35			331	SANDSTONE: strong brown (7.5YR 5/6), dense, siliceous, fine-v fine, wet, HC odor.	
40			33.3		
45			37.2	SAND: brown (7.5YR 5/4), dense, fine-v fine, wet, interbedded w/ dense sandstone.	
50			74.7	SANDSTONE: brown (7.5YR 5/2), dense, fine-v fine, wet, with v hard siliceous interbeds.	
55			12.8		
60					





ELEVATION (feet-msl)
3595
3590
3585
3580
3575
3570
3565
3560
3555
3550
3545
3540

WELL COMPLETION INFORMATION

Measuring Point Description : Top of Casing
Measuring Point Elevation (ft MSL): 3602.04
Boring Total Depth (ft BGS): 60
Initial Water Level (ft BTOC): 39.62

Type of Casing / Screen: PVC
Casing Diameter (inches): 6
Well Screen Slot Size (inch): 0.020
Well Completion: Above Ground Security Casing

TETRA TECH, INC.

CRUDE OIL RECOVERY WELL LOG

RW-3

BORING/WELL NO.

CLIENT/PROJECT: ConocoPhillips
LOCATION: Line NM1-1
COUNTY, STATE: Lea County, NM
LOGGED BY: Greg W. Pope
DATE/TIME START: 12-3-10/9:35
DATE/TIME FINISH: 12-3-10/10:25

PROJECT NUMBER: 114-6400667
DRILLING CO: Straub Corporation
DRILL TYPE: 30K Air Rotary
BORING DIAMETER: 10 inches
GROUND SURFACE ELEVATION: 3597.86
GPS COORDINATES (N/E): 609338.8 903358.7

DEPTH (feet-bgs)	SAMPLE NUMBER	SAMPLE INTERVAL	PID READING (ppm)	LITHOLOGIC DESCRIPTION	USCS SYMBOL	LITHOLOGY	WELL CONSTRUCTION	WELL COMPLETION	% RECOVERY	SYMBOLS	ELEVATION (feet-msl)
0			0.0	TOPSOIL: sandy loam, dark gray, with limestone debris.				0-2 ft - Cement Grout			3595
			1.2	CALICHE: pale red (2.5YR 7/3), dense, dry, sandy in part, v fine sand, predominately cobbles.							
5			3.0	CALICHE: pink (7.5YR 8/3), mod dense, dry, sandy in part, v fine sand.							3590
10			3.8					2-28 ft - Bentonite Holeplug			3585
15			4.6	SAND AND CALICHE: white (7.5YR 8/1), mod dense, dry, sandy, v fine siliceous sand, HC odor.				0-30 ft - 6" Sch 40 PVC Blank Casing			3580
20			4.7								3575
25			1015	SAND: v pale brown (10YR 7/4), siliceous lithic cobbles and debris, dense, v fine sand, dry, strong HC odor.							3570
30			613					28-60 ft - 8/16 Silica Sand Filter Pack			3565
35			101	SANDSTONE: strong brown (7.5YR 5/6), dense, siliceous, v fine, wet, HC odor.							3560
40				SAND: brown (7.5YR 5/4), mod dense, fine-v fine, wet.				30-60 ft - 0.020" Slot 6" Sch 40 PVC Screen			3555
45			81	SANDSTONE: brown (7.5YR 5/4), hard, med-v fine, wet, siliceous.							3550
50			6.3	SAND: strong brown (7.5YR 5/6), dense, wet, v fine.							3545
55			9.7	SAND: brown (7.5YR 5/4), mod soft, wet, v fine.							3540
60											

WELL COMPLETION INFORMATION

Measuring Point Description : Top of Casing
Measuring Point Elevation (ft MSL): 3601.34
Boring Total Depth (ft BGS): 60
Initial Water Level (ft BTOC): 37.71

Type of Casing / Screen: PVC
Casing Diameter (inches): 6
Well Screen Slot Size (inch): 0.020
Well Completion: Above Ground Security Casing

TETRA TECH, INC.

CRUDE OIL RECOVERY WELL LOG

RW-4

BORING/WELL NO.

CLIENT/PROJECT: ConocoPhillips
LOCATION: Line NM1-1
COUNTY, STATE: Lea County, NM
LOGGED BY: Greg W. Pope
DATE/TIME START: 12-6-10/10:40
DATE/TIME FINISH: 12-6-10/11:55

PROJECT NUMBER: 114-6400667
DRILLING CO: Straub Corporation
DRILL TYPE: 30K Air Rotary
BORING DIAMETER: 10 inches
GROUND SURFACE ELEVATION: 3598.92
GPS COORDINATES (N/E): 609419 903366.5

DEPTH (feet-bgs)	SAMPLE NUMBER	SAMPLE INTERVAL	PID READING (ppm)	LITHOLOGIC DESCRIPTION	USCS SYMBOL	LITHOLOGY	WELL CONSTRUCTION	WELL COMPLETION	% RECOVERY	SYMBOLS	ELEVATION (feet-msl)
0			0.0	CLAY: fill, red.				0-2 ft - Cement Grout			3598.92
			0.2	CALICHE: white (5YR 8/1), hard, dry, cobbles.							
5			0.7	CALICHE: white (5YR 8/1), dense, dry.							3595
10			11.0	SAND AND CALICHE: pinkish white (5YR 8/2), mod dense, dry, v fine sand.				2-27 ft - Bentonite Holeplug			3590
15			7.6	CALICHE: pinkish white (5YR 8/2), dense, dry.				0-30 ft - 6" Sch 40 PVC Blank Casing			3585
20			211	SANDSTONE: pink (5YR 7/3), dense, dry, v fine, calcareous with chert interbeds, strong HC odor.							3580
25			1296								3575
30			1079					27-60 ft - 8/16 Silica Sand Filter Pack			3570
35			978								3565
40			299	SAND: brown (7.5YR 5/2), mod dense, fine-v fine, wet, HC odor.				30-60 ft - 0.020" Slot 6" Sch 40 PVC Screen			3560
45			385	SAND: light brown (7.5YR 6/4), dense, wet, fine-v fine, calcareous.							3555
50			320								3550
55			302	SAND: light brown (7.5YR 6/3), mod soft, wet, v fine.							3545
60											3540

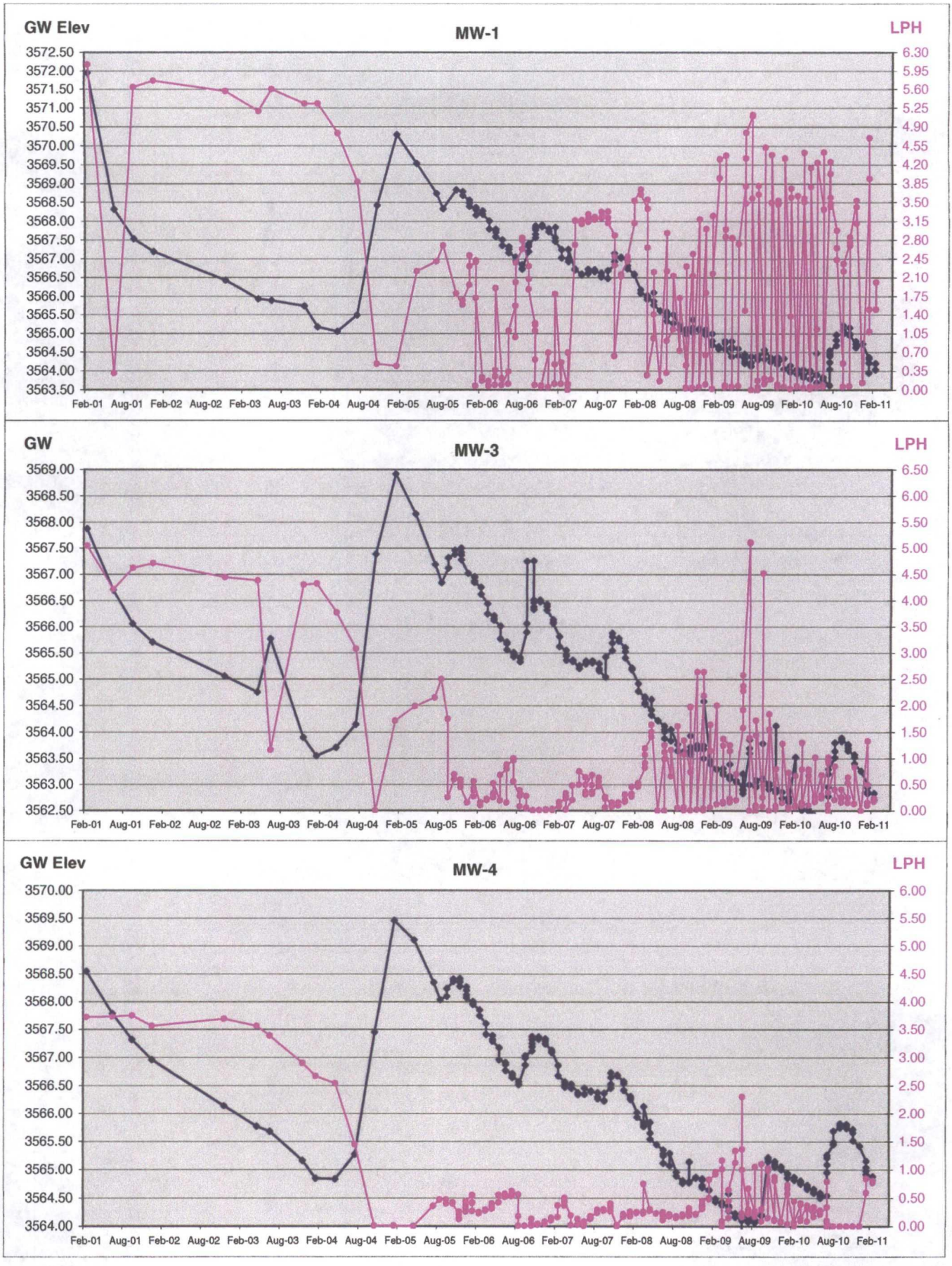
WELL COMPLETION INFORMATION

Measuring Point Description : Top of Casing
Measuring Point Elevation (ft MSL): 3602.30
Boring Total Depth (ft BGS): 60
Initial Water Level (ft BTOC): 38.32

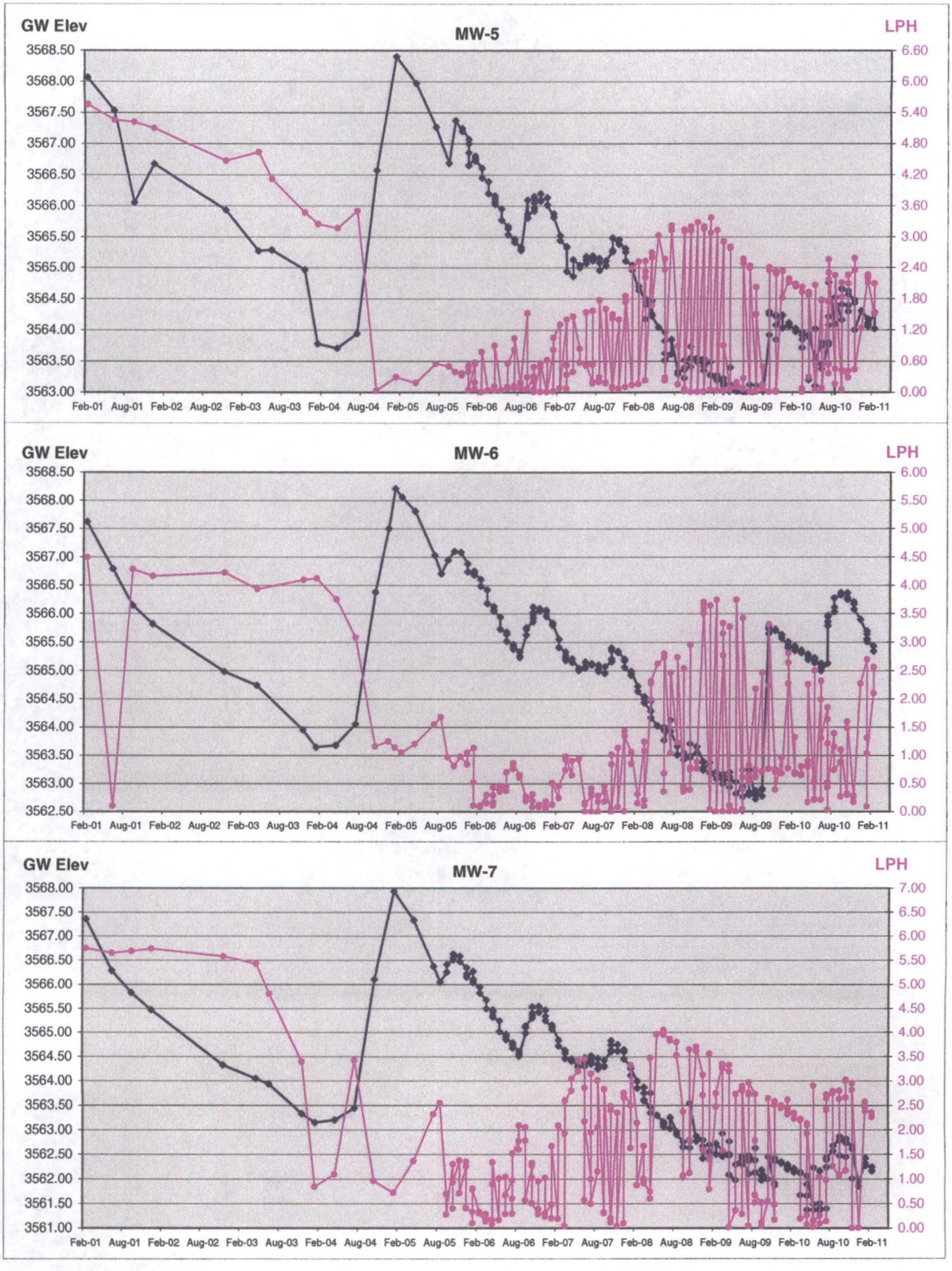
Type of Casing / Screen: PVC
Casing Diameter (inches): 6
Well Screen Slot Size (inch): 0.020
Well Completion: Above Ground Security Casing

APPENDIX B
Hydrographs and Groundwater Analytical Data Graphs

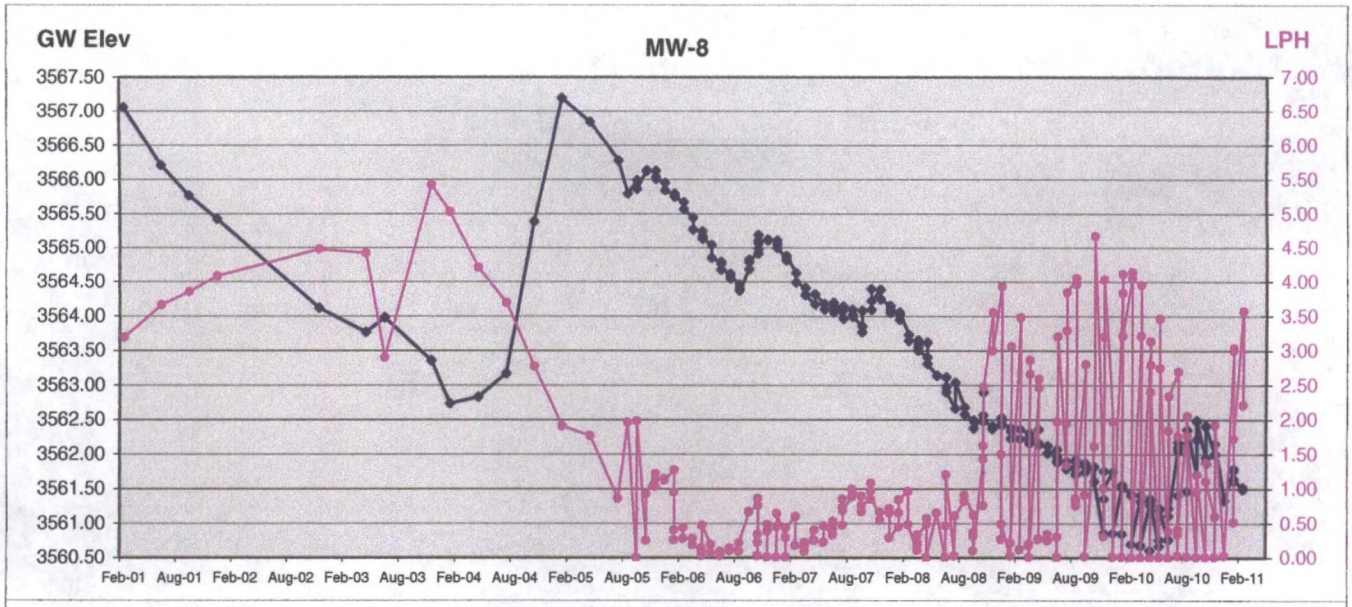
Hydrograph Charts
ConocoPhillips - Line NM1-1

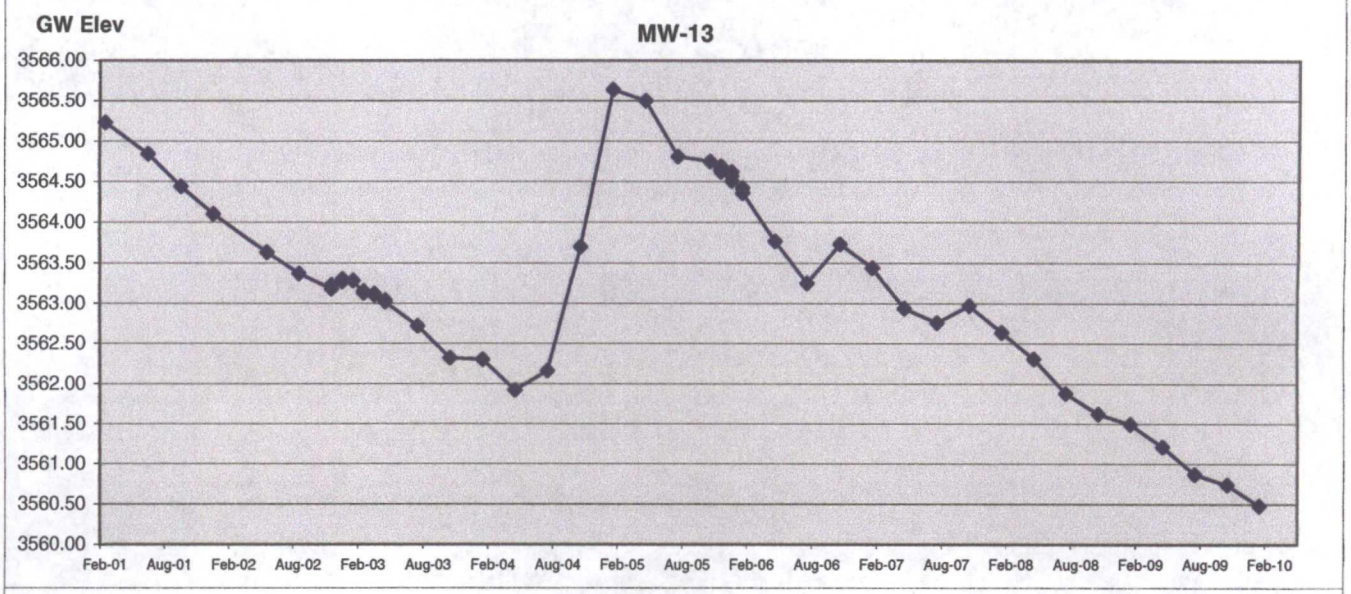


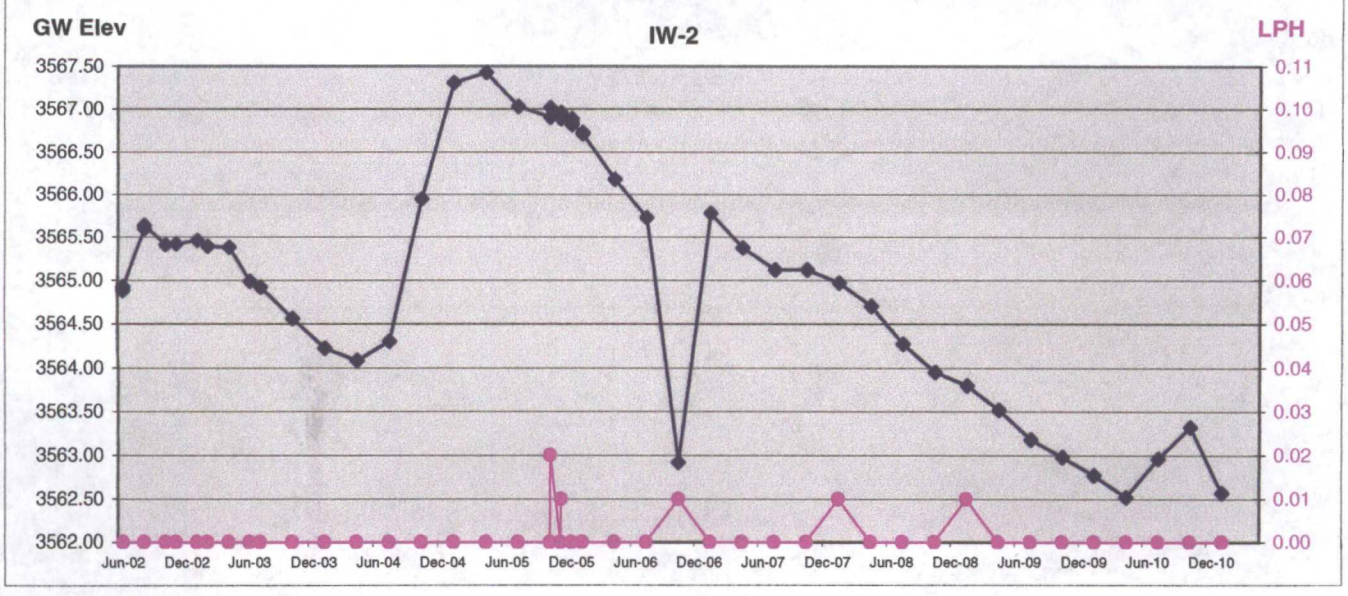
Hydrograph Charts
ConocoPhillips - Line NM1-1



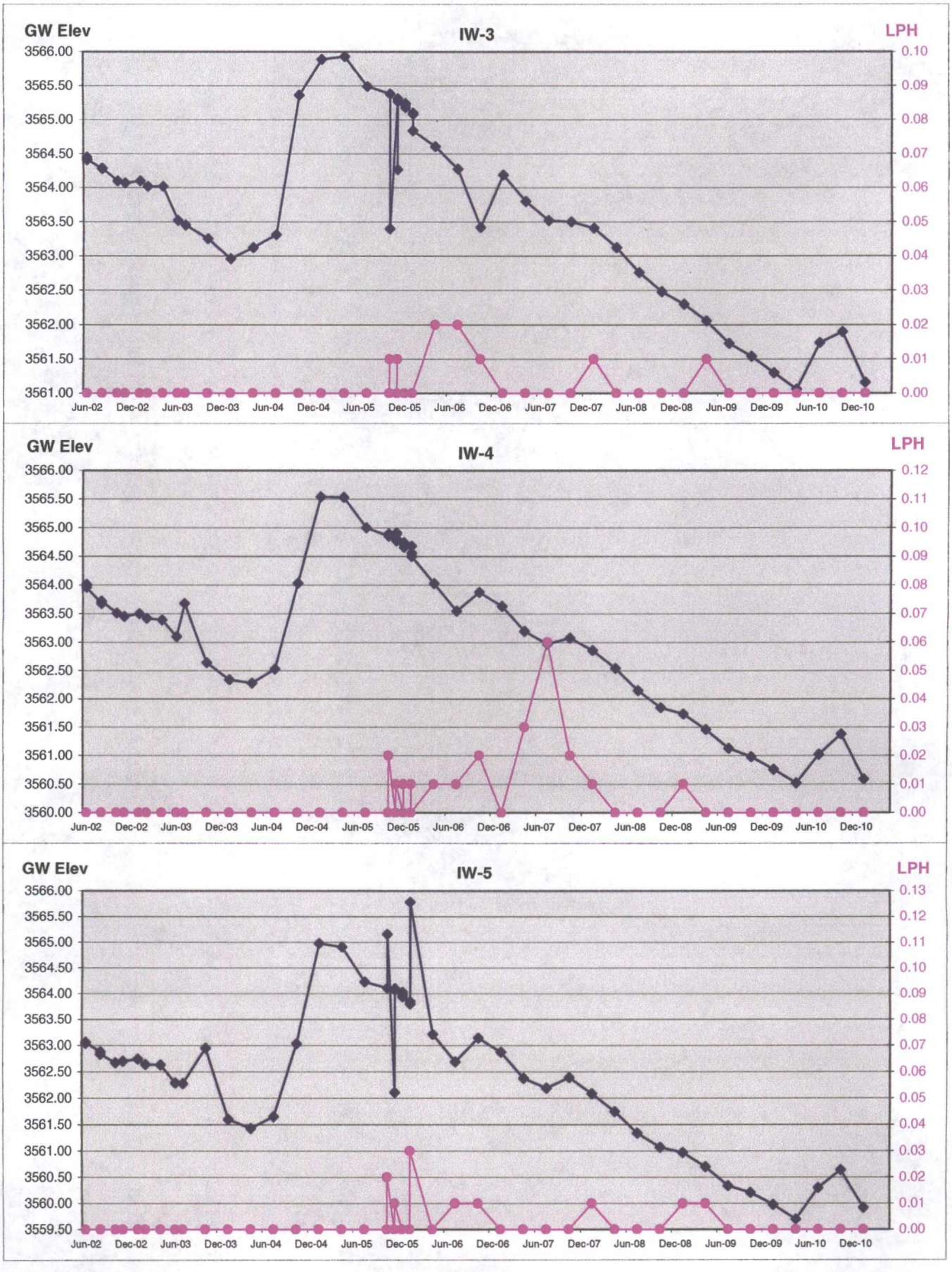
Hydrograph Charts
ConocoPhillips - Line NM1-1



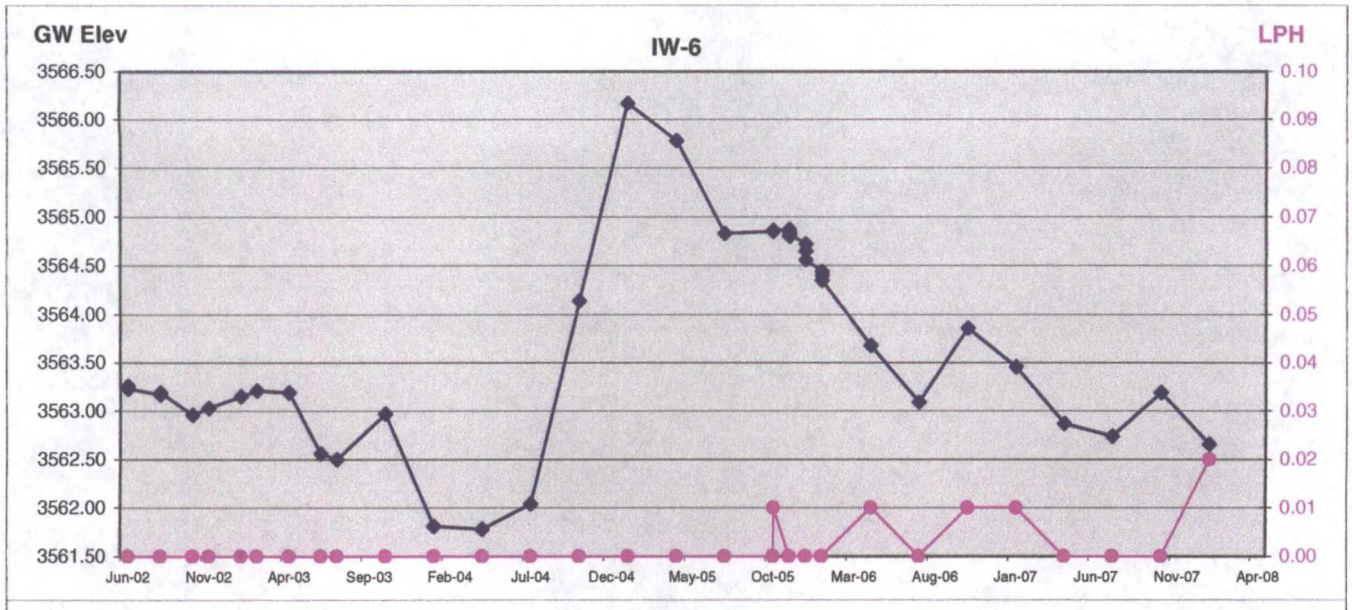


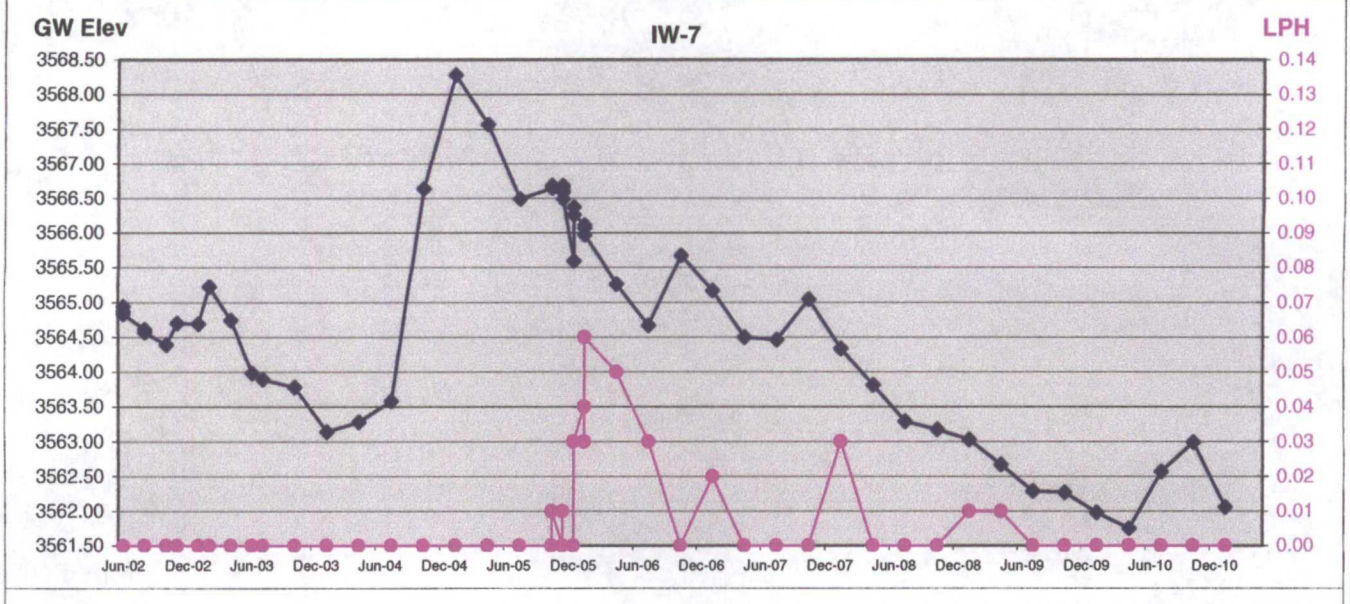


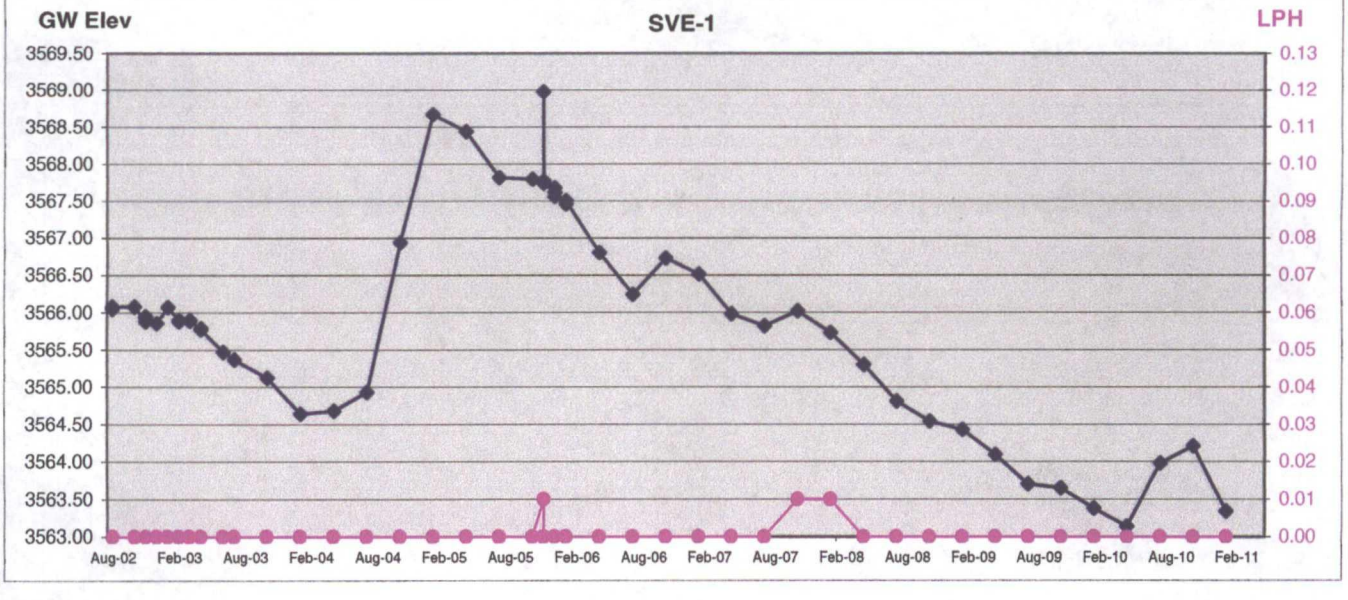
Hydrograph Charts
ConocoPhillips - Line NM1-1



Hydrograph Charts
ConocoPhillips - Line NM1-1

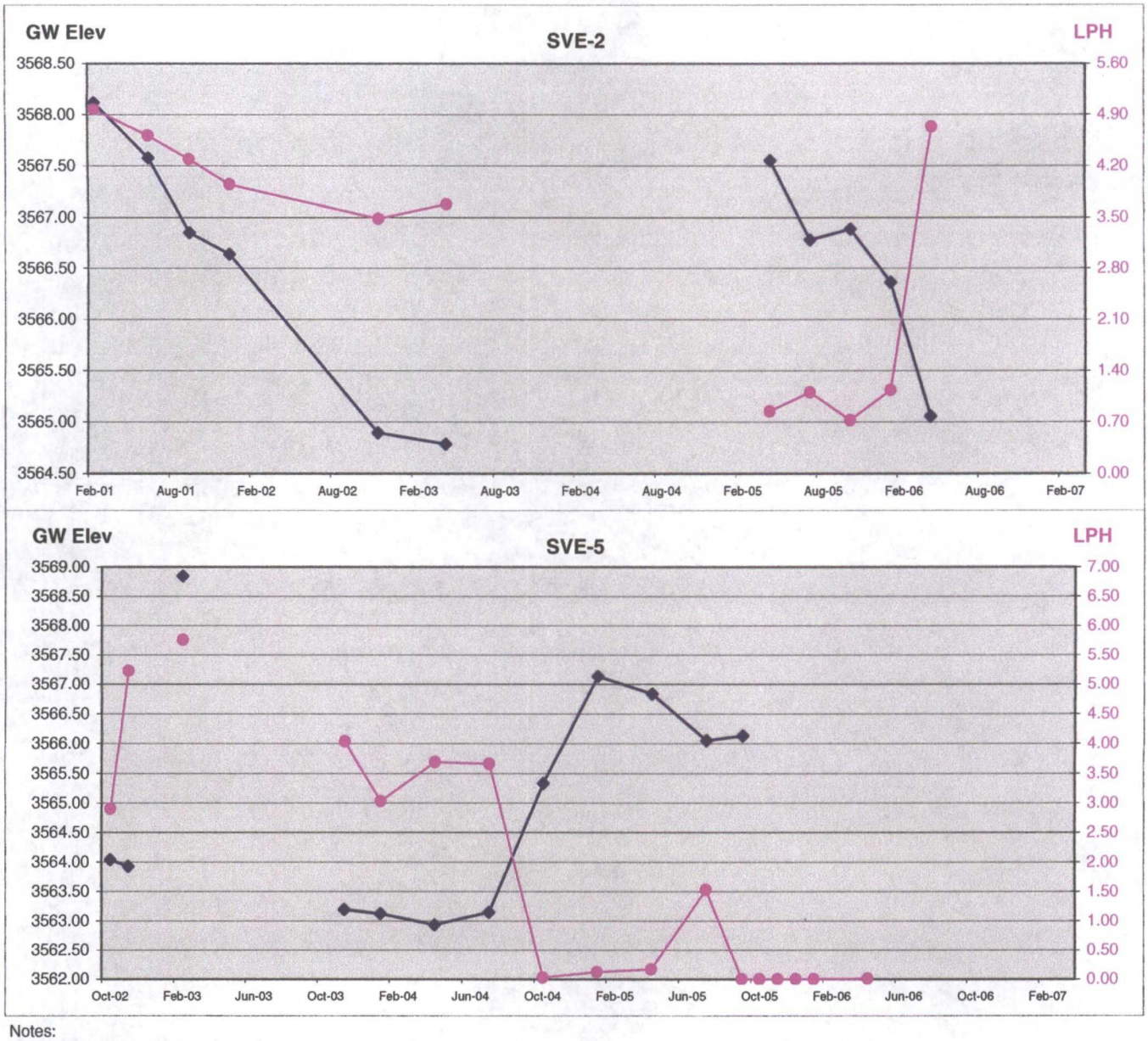






Hydrograph Charts

ConocoPhillips - Line NM1-1



Notes:

GW Elev = Groundwater elevation in feet above mean sea level

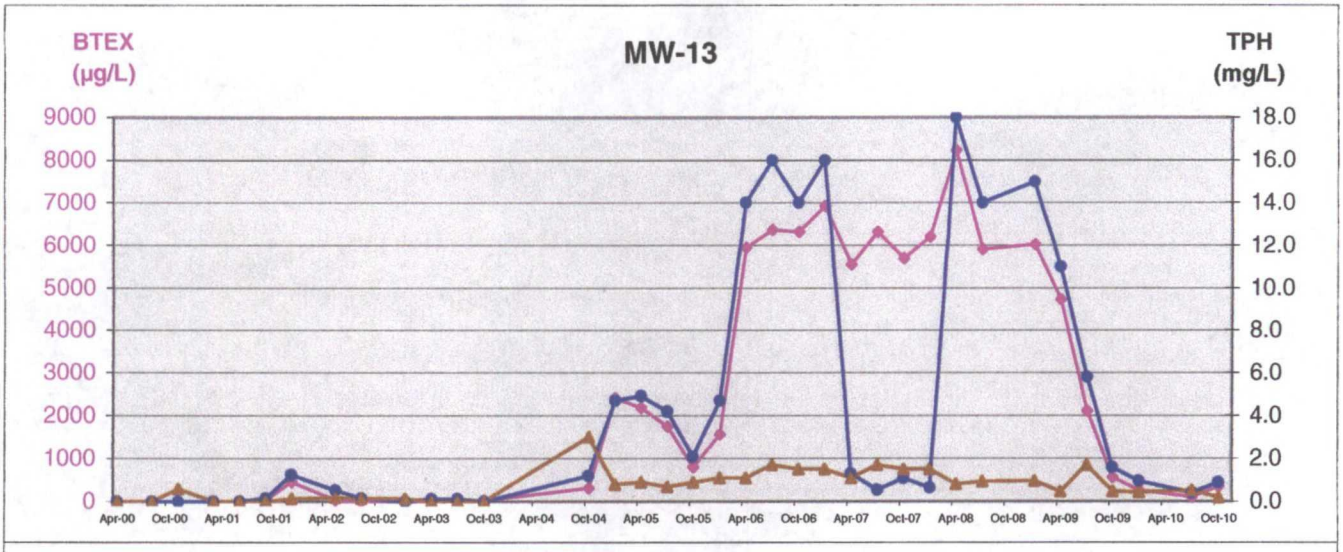
LPH = Liquid phase hydrocarbons thickness in feet

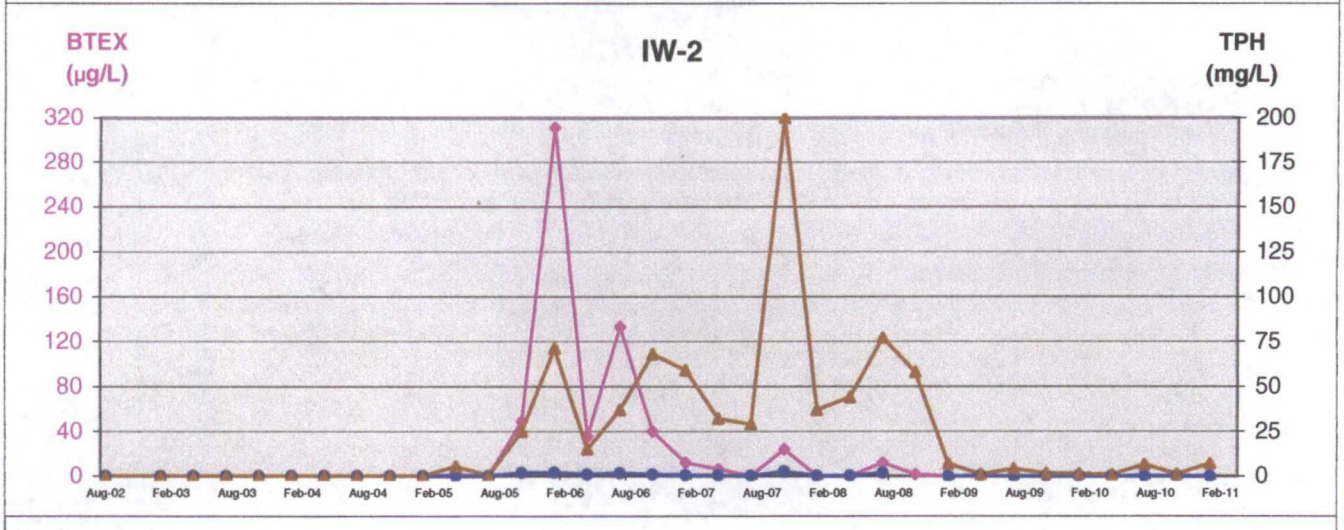
Groundwater Analytical Data Graphs

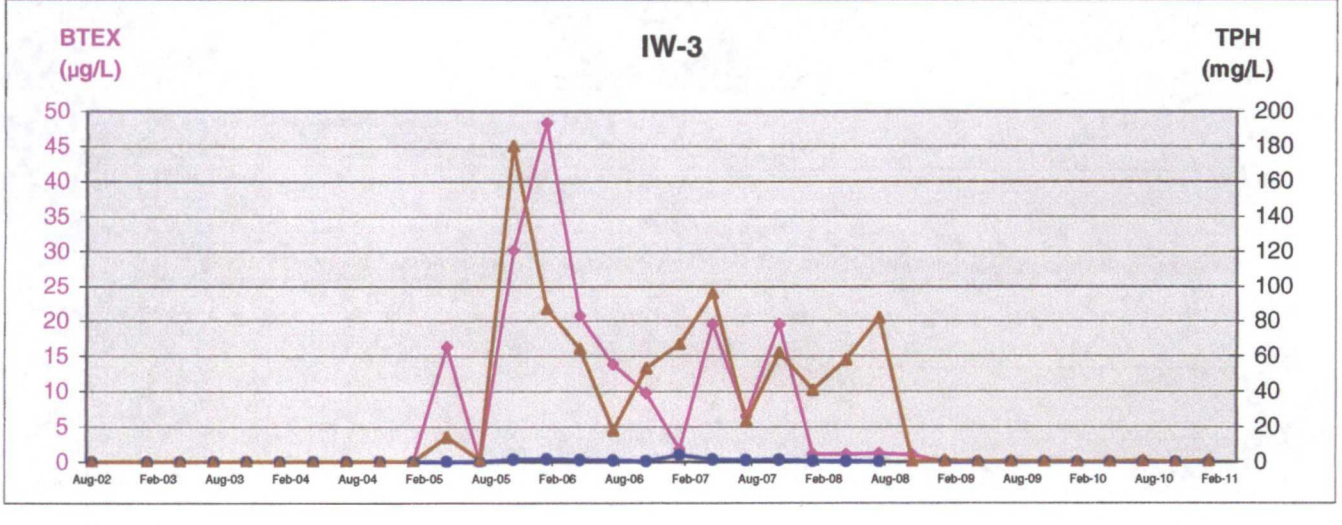
ConocoPhillips - Line NM1-1

Hobbs, New Mexico

Total BTEX TPH-GRO TPH-DRO

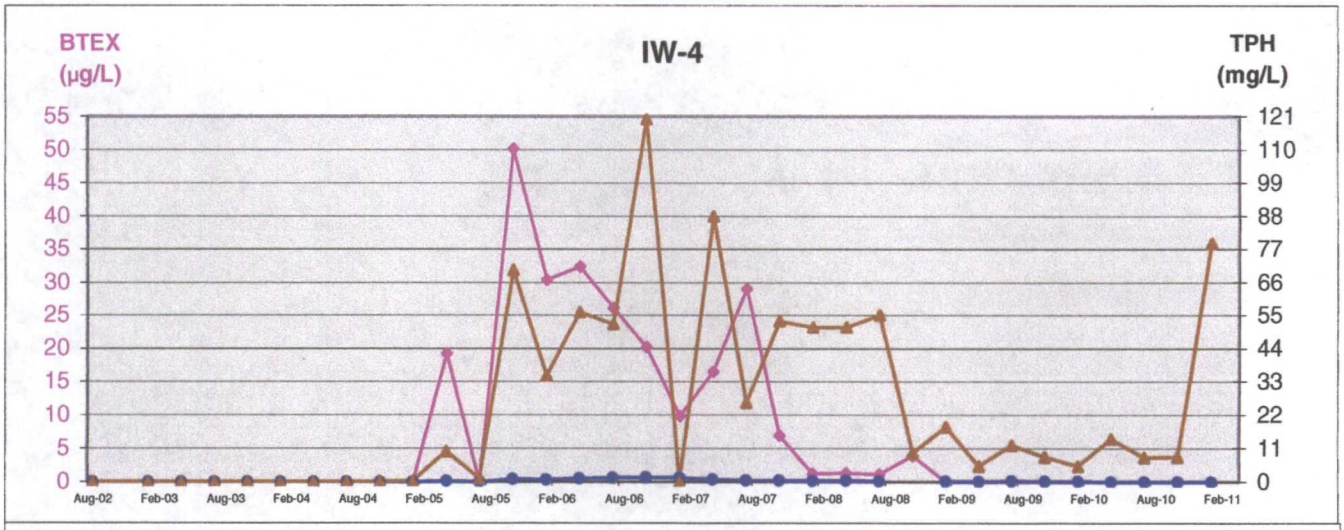


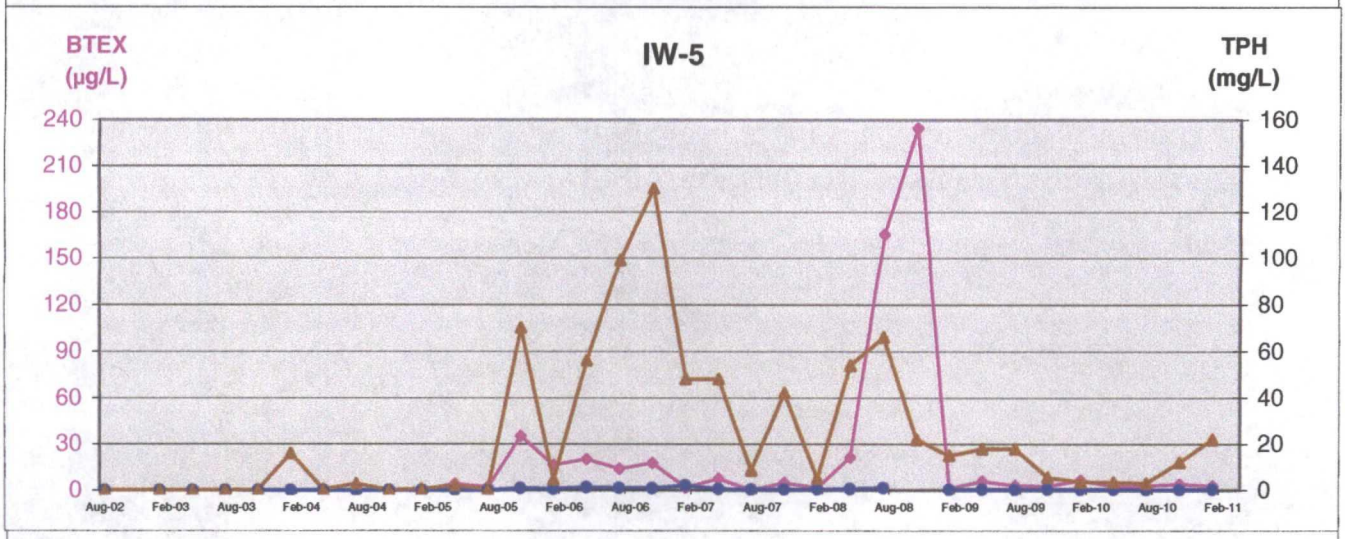


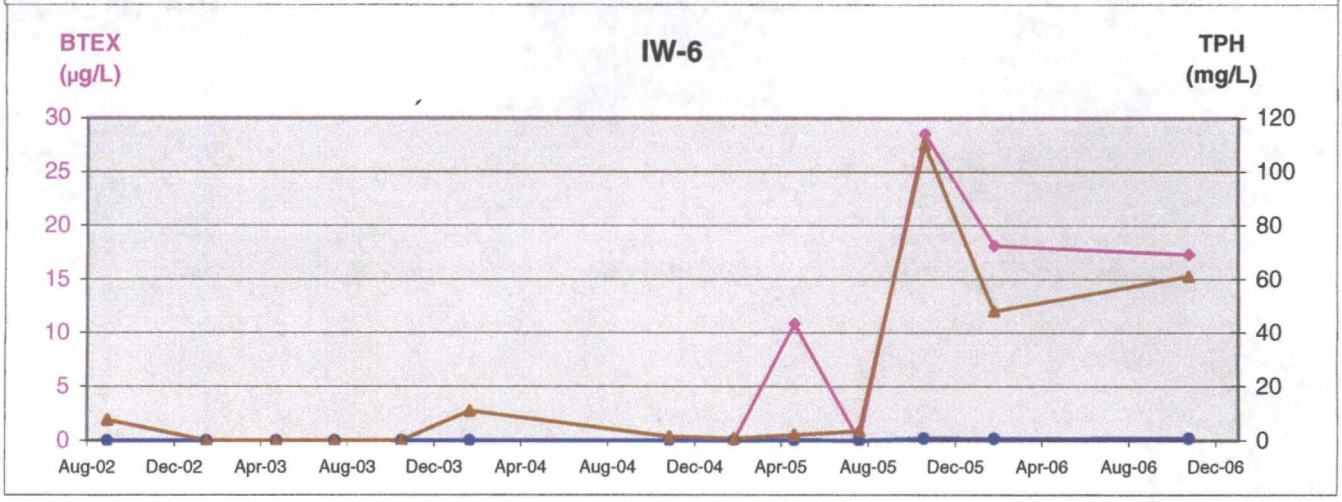


Groundwater Analytical Data Graphs
ConocoPhillips - Line NM1-1
Hobbs, New Mexico

Total BTEX TPH-GRO TPH-DRO

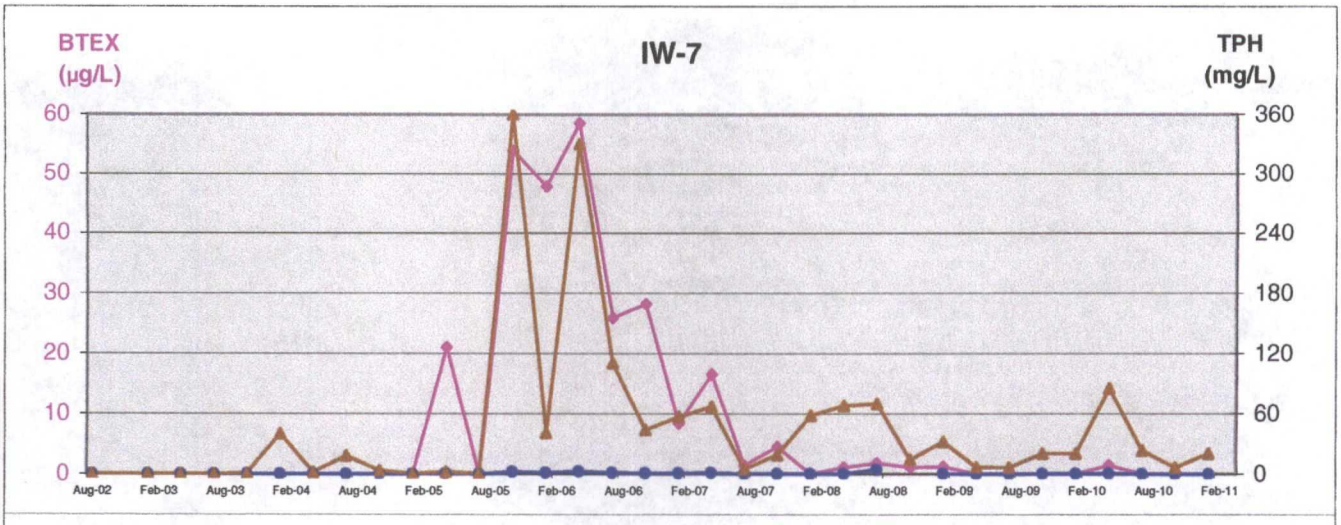


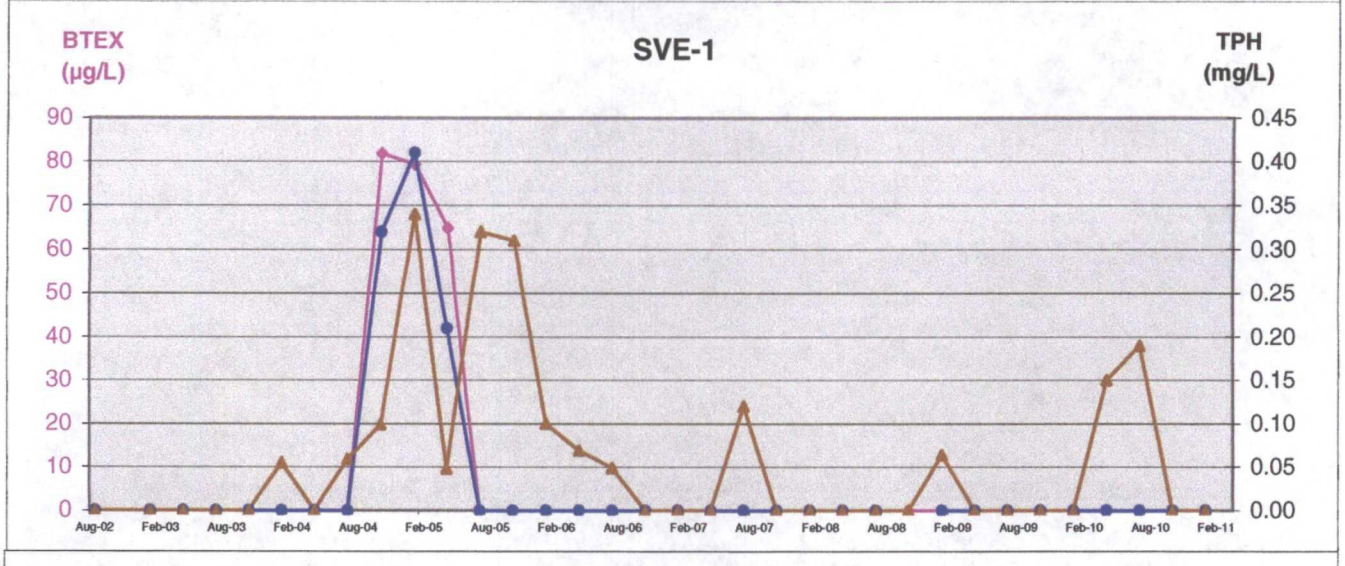


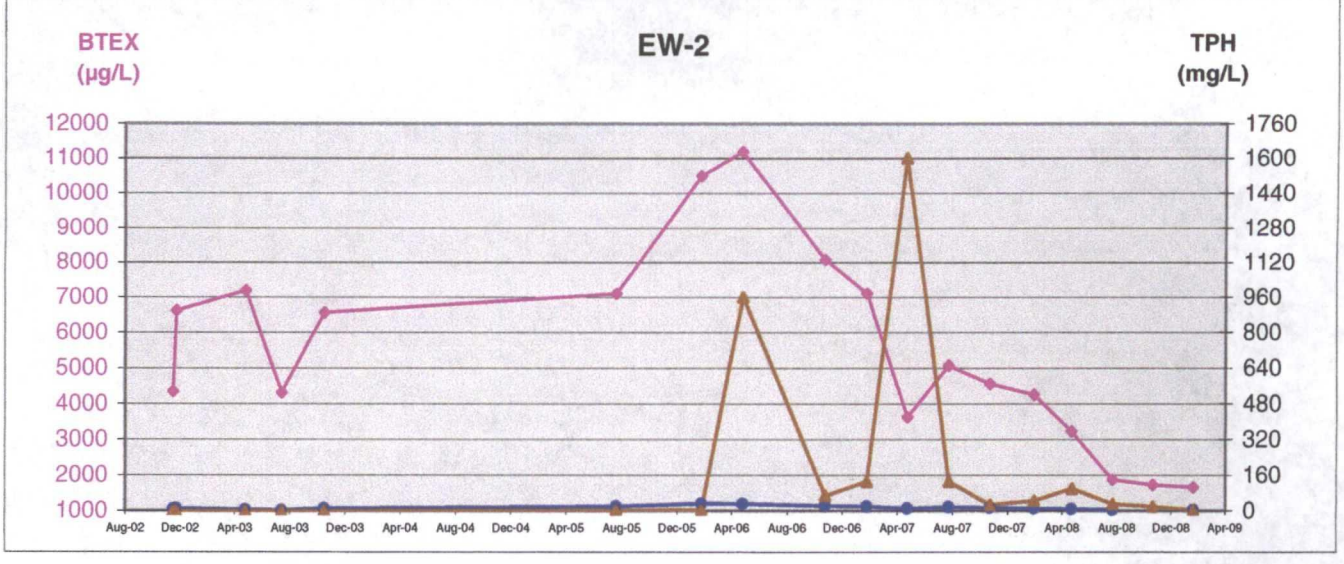


Groundwater Analytical Data Graphs
ConocoPhillips - Line NM1-1
Hobbs, New Mexico

Total BTEX TPH-GRO TPH-DRO







Notes:
BTEX = Total benzene, toluene, ethylbenzene, xylenes
TPH = Total petroleum hydrocarbons
µg/L = Micrograms per liter
mg/L = Milligrams per liter

APPENDIX C
Laboratory Analytical Data

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

May 27, 2010

Workorder: H10040590

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

Project: COP / NM1-1

Project Number: 114-6400484

Site: COP - Hobbs, New Mexico

PO Number: ENFOS PO 4513244562

NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 69 Pages

Excluding Any Attachments

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Project: COP / NM1-1

Project Number: 114-6400484

Site: COP - Hobbs, New Mexico

PO Number: ENFOS PO 4513244562

NELAC Cert. No.: T104704205-09-1

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.

Your sample IDs "SVE-1, IW-2, IW-3, IW-4, IW-5, IW-7 and Dup #1" (SPL ID: 10040590001, 002, 003, 004, 005, 006, 007) were subcontracted to American Radiation Services, 2609 North River Rd., Port Allen, LA 70767 for the Uranium analysis. See the enclosed lab report for your results.

SW8270C - Semivolatile Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: EXTO/1677. 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.

SW8015 - Diesel Range Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: EXTO/1683. 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.

Your sample ID "IW-4" (SPL ID: H10040590004) was randomly selected for use in SPL's quality control program for Batch ID DIGM/1714. The MSD recovery was outside of the advisable quality control limits for Nickel due to matrix interference. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within 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.

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 ").

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Certificate of Analysis

May 27, 2010

Workorder: H10040590

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Project: COP / NM1-1

Project Number: 114-6400484

Site: COP - Hobbs, New Mexico

PO Number: ENFOS PO 4513244562

NELAC Cert. No.: T104704205-09-1

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, Senior Project Manager

Enclosures

SPL Inc.
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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SAMPLE SUMMARY

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10040590001	SVE-1	Water		4/27/2010 07:55	4/28/2010 09:15
H10040590002	IW-2	Water		4/27/2010 08:30	4/28/2010 09:15
H10040590003	IW-3	Water		4/27/2010 08:50	4/28/2010 09:15
H10040590004	IW-4	Water		4/27/2010 09:10	4/28/2010 09:15
H10040590005	IW-5	Water		4/27/2010 09:45	4/28/2010 09:15
H10040590006	IW-7	Water		4/27/2010 10:10	4/28/2010 09:15
H10040590007	Dup #1	Water		4/27/2010 00:00	4/28/2010 09:15
H10040590008	Trip Blank	Water		4/27/2010 11:00	4/28/2010 09:15

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590001** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 4/27/2010 07:55

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1278 EPA 300.0 on 05/03/2010 19:24 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	118		5.00	1.26	10			1278

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 1683 SW-846 8015B DRO LVI on 05/01/2010 13:56 by N_M

Analytical Batches:

Batch: 1498 SW-846 8015B DRO LVI on 05/05/2010 06:52 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	0.15		0.050	0.0074	1		1683	1498
n-Pentacosane (S)	60.6 %		20-150		1		1683	1498

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B Preparation Batches:

Batch: 1708 SW-846 3010A on 04/29/2010 20:00 by R_V

Analytical Batches:

Batch: 1384 SW-846 6010B on 05/11/2010 20:34 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Boron	0.254		0.100	0.00100	1		1708	1384
Iron	0.0416		0.0200	0.00640	1		1708	1384

VOLATILES

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

Batch: 1626 SW-846 8021B on 05/06/2010 10:41 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.30	1			1626
Ethylbenzene	ND		1.0	0.22	1			1626
Toluene	ND		1.0	0.25	1			1626
m,p-Xylene	ND		1.0	0.30	1			1626

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590001** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **SVE-1** Date/Time Collected: 4/27/2010 07:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
o-Xylene	ND		1.0	0.32	1			1626
Xylenes, Total	ND		1.0	0.30	1			1626
1,4-Difluorobenzene (S)	98.7 %		70-130		1			1626
4-Bromofluorobenzene (S)	98.7 %		70-130		1			1626
Preservation pH	<2				1			1626

PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1677 SW-846 3510C on 04/30/2010 08:53 by N_M
Analytical Batches:
Batch: 1239 SW-846 8270C SIM on 05/05/2010 13:38 by SBG

Parameters:	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		0.054	0.031	1		1677	1239
Acenaphthylene	ND		0.054	0.030	1		1677	1239
Anthracene	ND		0.054	0.030	1		1677	1239
Benzo(a)anthracene	ND		0.054	0.030	1		1677	1239
Benzo(a)pyrene	ND		0.76	0.032	1		1677	1239
Benzo(b)fluoranthene	ND		0.054	0.032	1		1677	1239
Benzo(g,h,i)perylene	ND		0.054	0.029	1		1677	1239
Benzo(k)fluoranthene	ND		0.054	0.038	1		1677	1239
Chrysene	ND		0.054	0.031	1		1677	1239
Dibenz(a,h)anthracene	ND		0.054	0.028	1		1677	1239
Dibenzofuran	ND		0.054	0.029	1		1677	1239
Fluoranthene	ND		0.054	0.024	1		1677	1239
Fluorene	ND		0.054	0.030	1		1677	1239
Indeno(1,2,3-cd)pyrene	ND		0.054	0.030	1		1677	1239
1-Methylnaphthalene	ND		0.054	0.032	1		1677	1239
2-Methylnaphthalene	ND		0.054	0.033	1		1677	1239
Naphthalene	ND		0.054	0.037	1		1677	1239
Phenanthrene	ND		0.054	0.030	1		1677	1239
Pyrene	ND		0.054	0.034	1		1677	1239
Nitrobenzene-d5 (S)	89 %		10-165		1		1677	1239
2-Fluorobiphenyl (S)	92.1 %		10-123		1		1677	1239
Terphenyl-d14 (S)	70.8 %		10-150		1		1677	1239

ICP/MS DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590001** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 4/27/2010 07:55

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1714 SW-846 3010A on 05/02/2010 16:03 by R_V
Analytical Batches:
Batch: 1396 SW-846 6020A on 05/11/2010 03:52 by A_H DF = 1.
Batch: 1397 SW-846 6020A on 05/11/2010 14:45 by A_H DF = 1

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Aluminum	0.0603		0.0100	0.00904	1		1714	1397
Arsenic	0.00640		0.00500	0.00160	1		1714	1396
Barium	0.108		0.00500	0.000476	1		1714	1396
Cadmium	ND		0.00500	0.000612	1		1714	1396
Chromium	ND		0.00500	0.000466	1		1714	1396
Cobalt	ND		0.00500	0.000148	1		1714	1396
Copper	ND		0.00500	0.000457	1		1714	1396
Lead	ND		0.00500	0.000158	1		1714	1396
Manganese	0.00876		0.00500	0.000337	1		1714	1396
Molybdenum	ND		0.0100	0.000743	1		1714	1397
Nickel	ND		0.00500	0.00273	1		1714	1396
Selenium	ND		0.00500	0.00352	1		1714	1396
Silver	ND		0.00500	0.000149	1		1714	1396
Zinc	ND		0.0100	0.00160	1		1714	1396

METALS

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1132 SW-846 7470A on 04/29/2010 10:30 by R_V
Analytical Batches:
Batch: 1121 SW-846 7470A on 04/29/2010 12:52 by R_V

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1132	1121

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas
SW-846 8015B GRO GasAnalytical Batches:
Batch: 1624 SW-846 8015B GRO Gas on 05/06/2010 10:41 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1624
1,4-Difluorobenzene (S)	92.6 %		60-155		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590001** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 4/27/2010 07:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
4-Bromofluorobenzene (S)	93 %		50-158		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590002** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 4/27/2010 08:30

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1278 EPA 300.0 on 05/03/2010 19:43 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	67.2		5.00	1.26	10			1278

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 1683 SW-846 8015B DRO LVI on 05/01/2010 13:56 by N_M

Analytical Batches:

Batch: 1498 SW-846 8015B DRO LVI on 05/05/2010 07:24 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	0.77		0.050	0.0074	1		1683	1498
n-Pentacosane (S)	66.4 %		20-150		1		1683	1498

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B Preparation Batches:

Batch: 1708 SW-846 3010A on 04/29/2010 20:00 by R_V

Analytical Batches:

Batch: 1384 SW-846 6010B on 05/11/2010 20:40 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Boron	0.170		0.100	0.00100	1		1708	1384
Iron	0.113		0.0200	0.00640	1		1708	1384

VOLATILES

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

Batch: 1626 SW-846 8021B on 05/06/2010 13:31 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.30	1			1626
Ethylbenzene	ND		1.0	0.22	1			1626
Toluene	ND		1.0	0.25	1			1626
m,p-Xylene	ND		1.0	0.30	1			1626

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590002** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **IW-2** Date/Time Collected: 4/27/2010 08:30

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
o-Xylene	ND		1.0	0.32	1			1626
Xylenes, Total	ND		1.0	0.30	1			1626
1,4-Difluorobenzene (S)	100 %		70-130		1			1626
4-Bromofluorobenzene (S)	101 %		70-130		1			1626
Preservation pH	<2				1			1626

PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1677 SW-846 3510C on 04/30/2010 08:54 by N_M
Analytical Batches:
Batch: 1239 SW-846 8270C SIM on 05/05/2010 20:05 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		0.053	0.030	1		1677	1239
Acenaphthylene	ND		0.053	0.029	1		1677	1239
Anthracene	ND		0.053	0.029	1		1677	1239
Benzo(a)anthracene	ND		0.053	0.029	1		1677	1239
Benzo(a)pyrene	ND		0.74	0.031	1		1677	1239
Benzo(b)fluoranthene	ND		0.053	0.031	1		1677	1239
Benzo(g,h,i)perylene	ND		0.053	0.028	1		1677	1239
Benzo(k)fluoranthene	ND		0.053	0.037	1		1677	1239
Chrysene	0.18		0.053	0.030	1		1677	1239
Dibenz(a,h)anthracene	ND		0.053	0.028	1		1677	1239
Dibenzofuran	0.13		0.053	0.028	1		1677	1239
Fluoranthene	ND		0.053	0.024	1		1677	1239
Fluorene	0.15		0.053	0.029	1		1677	1239
Indeno(1,2,3-cd)pyrene	ND		0.053	0.029	1		1677	1239
1-Methylnaphthalene	0.36		0.053	0.031	1		1677	1239
2-Methylnaphthalene	ND		0.053	0.032	1		1677	1239
Naphthalene	ND		0.053	0.035	1		1677	1239
Phenanthrene	0.24		0.053	0.029	1		1677	1239
Pyrene	0.16		0.053	0.033	1		1677	1239
Nitrobenzene-d5 (S)	149 %		10-165		1		1677	1239
2-Fluorobiphenyl (S)	50.1 %		10-123		1		1677	1239
Terphenyl-d14 (S)	67 %		10-150		1		1677	1239

ICP/MS DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590002** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 4/27/2010 08:30

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1714 SW-846 3010A on 05/02/2010 16:03 by R_V
Analytical Batches:
Batch: 1396 SW-846 6020A on 05/11/2010 03:58 by A_H DF = 1.
Batch: 1397 SW-846 6020A on 05/11/2010 14:51 by A_H DF = 1.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Aluminum	0.0672		0.0100	0.00904	1		1714	1397
Arsenic	0.00772		0.00500	0.00160	1		1714	1396
Barium	0.113		0.00500	0.000476	1		1714	1396
Cadmium	ND		0.00500	0.000612	1		1714	1396
Chromium	ND		0.00500	0.000466	1		1714	1396
Cobalt	ND		0.00500	0.000148	1		1714	1396
Copper	ND		0.00500	0.000457	1		1714	1396
Lead	ND		0.00500	0.000158	1		1714	1396
Manganese	0.00516		0.00500	0.000337	1		1714	1396
Molybdenum	ND		0.0100	0.000743	1		1714	1397
Nickel	ND		0.00500	0.00273	1		1714	1396
Selenium	ND		0.00500	0.00352	1		1714	1396
Silver	ND		0.00500	0.000149	1		1714	1396
Zinc	ND		0.0100	0.00160	1		1714	1396

METALS

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1132 SW-846 7470A on 04/29/2010 10:30 by R_V
Analytical Batches:
Batch: 1121 SW-846 7470A on 04/29/2010 13:01 by R_V

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1132	1121

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 1624 SW-846 8015B GRO Gas on 05/06/2010 13:31 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1624
1,4-Difluorobenzene (S)	93.6 %		60-155		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590002** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 4/27/2010 08:30

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
4-Bromofluorobenzene (S)	91.9 %		50-158		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590003** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-3** Date/Time Collected: 4/27/2010 08:50

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1278 EPA 300.0 on 05/03/2010 20:02 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	75.0		5.00	1.26	10			1278

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 1683 SW-846 8015B DRO LVI on 05/01/2010 13:57 by N_M

Analytical Batches:

Batch: 1498 SW-846 8015B DRO LVI on 05/05/2010 07:56 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	0.23		0.050	0.0074	1		1683	1498
n-Pentacosane (S)	68.9 %		20-150		1		1683	1498

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B Preparation Batches:

Batch: 1708 SW-846 3010A on 04/29/2010 20:00 by R_V

Analytical Batches:

Batch: 1384 SW-846 6010B on 05/11/2010 19:40 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Boron	0.184		0.100	0.00100	1		1708	1384
Iron	0.0503		0.0200	0.00640	1		1708	1384

VOLATILES

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

Batch: 1626 SW-846 8021B on 05/06/2010 13:59 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.30	1			1626
Ethylbenzene	ND		1.0	0.22	1			1626
Toluene	ND		1.0	0.25	1			1626
m,p-Xylene	ND		1.0	0.30	1			1626

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590003** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **IW-3** Date/Time Collected: 4/27/2010 08:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
o-Xylene	ND		1.0	0.32	1			1626
Xylenes, Total	ND		1.0	0.30	1			1626
1,4-Difluorobenzene (S)	100 %		70-130		1			1626
4-Bromofluorobenzene (S)	99.8 %		70-130		1			1626
Preservation pH	<2				1			1626

PAH SIM

Analysis Desc: SW-846 8270C SIM
Preparation Batches:
Batch: 1677 SW-846 3510C on 04/30/2010 08:54 by N M
Analytical Batches:
Batch: 1239 SW-846 8270C SIM on 05/05/2010 19:01 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Acenaphthene	ND		0.051	0.029	1		1677	1239
Acenaphthylene	ND		0.051	0.028	1		1677	1239
Anthracene	ND		0.051	0.028	1		1677	1239
Benzo(a)anthracene	ND		0.051	0.028	1		1677	1239
Benzo(a)pyrene	ND		0.71	0.030	1		1677	1239
Benzo(b)fluoranthene	ND		0.051	0.030	1		1677	1239
Benzo(g,h,i)perylene	ND		0.051	0.027	1		1677	1239
Benzo(k)fluoranthene	ND		0.051	0.035	1		1677	1239
Chrysene	ND		0.051	0.029	1		1677	1239
Dibenz(a,h)anthracene	ND		0.051	0.027	1		1677	1239
Dibenzofuran	ND		0.051	0.027	1		1677	1239
Fluoranthene	ND		0.051	0.023	1		1677	1239
Fluorene	ND		0.051	0.028	1		1677	1239
Indeno(1,2,3-cd)pyrene	ND		0.051	0.028	1		1677	1239
1-Methylnaphthalene	ND		0.051	0.030	1		1677	1239
2-Methylnaphthalene	ND		0.051	0.031	1		1677	1239
Naphthalene	ND		0.051	0.034	1		1677	1239
Phenanthrene	ND		0.051	0.028	1		1677	1239
Pyrene	ND		0.051	0.032	1		1677	1239
Nitrobenzene-d5 (S)	103 %		10-165		1		1677	1239
2-Fluorobiphenyl (S)	58.3 %		10-123		1		1677	1239
Terphenyl-d14 (S)	56.5 %		10-150		1		1677	1239

ICP/MS DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590003** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-3** Date/Time Collected: 4/27/2010 08:50

Analysis Desc: SW-846 6020A Preparation Batches:
Batch: 1714 SW-846 3010A on 05/02/2010 16:03 by R_V
Analytical Batches:
Batch: 1396 SW-846 6020A on 05/11/2010 04:05 by A_H DF = 1
Batch: 1397 SW-846 6020A on 05/11/2010 14:57 by A_H DF = 1

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Aluminum	0.0571		0.0100	0.00904	1		1714	1397
Arsenic	0.0101		0.00500	0.00160	1		1714	1396
Barium	0.124		0.00500	0.000476	1		1714	1396
Cadmium	ND		0.00500	0.000612	1		1714	1396
Chromium	ND		0.00500	0.000466	1		1714	1396
Cobalt	ND		0.00500	0.000148	1		1714	1396
Copper	ND		0.00500	0.000457	1		1714	1396
Lead	ND		0.00500	0.000158	1		1714	1396
Manganese	0.0155		0.00500	0.000337	1		1714	1396
Molybdenum	ND		0.0100	0.000743	1		1714	1397
Nickel	0.0210		0.00500	0.00273	1		1714	1396
Selenium	ND		0.00500	0.00352	1		1714	1396
Silver	ND		0.00500	0.000149	1		1714	1396
Zinc	0.0150		0.0100	0.00160	1		1714	1396

METALS

Analysis Desc: SW-846 7470A Preparation Batches:
Batch: 1132 SW-846 7470A on 04/29/2010 10:30 by R_V
Analytical Batches:
Batch: 1121 SW-846 7470A on 04/29/2010 13:03 by R_V

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1132	1121

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 1624 SW-846 8015B GRO Gas on 05/06/2010 13:59 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1624
1,4-Difluorobenzene (S)	92.6 %		60-155		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590003** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-3** Date/Time Collected: 4/27/2010 08:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
4-Bromofluorobenzene (S)	93.5 %		50-158		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590004** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-4** Date/Time Collected: 4/27/2010 09:10

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1278 EPA 300.0 on 05/03/2010 20:20 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	86.9		5.00	1.26	10			1278

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 1683 SW-846 8015B DRO LVI on 05/01/2010 13:57 by N_M

Analytical Batches:

Batch: 1498 SW-846 8015B DRO LVI on 05/05/2010 11:41 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	14		0.50	0.074	10		1683	1498
n-Pentacosane (S)	146 %		20-150		10		1683	1498

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B Preparation Batches:

Batch: 1708 SW-846 3010A on 04/29/2010 20:00 by R_V

Analytical Batches:

Batch: 1384 SW-846 6010B on 05/11/2010 20:46 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Boron	0.155		0.100	0.00100	1		1708	1384
Iron	0.241		0.0200	0.00640	1		1708	1384

VOLATILES

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

Batch: 1626 SW-846 8021B on 05/06/2010 14:27 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.30	1			1626
Ethylbenzene	ND		1.0	0.22	1			1626
Toluene	ND		1.0	0.25	1			1626
m,p-Xylene	ND		1.0	0.30	1			1626

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590004** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-4** Date/Time Collected: 4/27/2010 09:10

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
o-Xylene	ND		1.0	0.32	1			1626
Xylenes, Total	ND		1.0	0.30	1			1626
1,4-Difluorobenzene (S)	100 %		70-130		1			1626
4-Bromofluorobenzene (S)	101 %		70-130		1			1626
Preservation pH	<2				1			1626

PAH SIM

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

Batch: 1677 SW-846 3510C on 04/30/2010 08:54 by N_M

Analytical Batches:

Batch: 1239 SW-846 8270C SIM on 05/05/2010 20:38 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		0.26	0.15	5		1677	1239
Acenaphthylene	ND		0.26	0.14	5		1677	1239
Anthracene	ND		0.26	0.14	5		1677	1239
Benzo(a)anthracene	1.5		0.26	0.14	5		1677	1239
Benzo(a)pyrene	ND		3.6	0.15	5		1677	1239
Benzo(b)fluoranthene	0.92		0.26	0.15	5		1677	1239
Benzo(g,h,i)perylene	ND		0.26	0.14	5		1677	1239
Benzo(k)fluoranthene	ND		0.26	0.18	5		1677	1239
Chrysene	3.6		0.26	0.15	5		1677	1239
Dibenz(a,h)anthracene	ND		0.26	0.14	5		1677	1239
Dibenzofuran	5.9		0.26	0.14	5		1677	1239
Fluoranthene	1.6		0.26	0.12	5		1677	1239
Fluorene	7.2		0.26	0.14	5		1677	1239
Indeno(1,2,3-cd)pyrene	ND		0.26	0.14	5		1677	1239
1-Methylnaphthalene	9.6		0.26	0.15	5		1677	1239
2-Methylnaphthalene	ND		0.26	0.16	5		1677	1239
Naphthalene	ND		0.26	0.17	5		1677	1239
Phenanthrene	14		0.26	0.14	5		1677	1239
Pyrene	3.4		0.26	0.16	5		1677	1239
Nitrobenzene-d5 (S)	4040 %	MI*	10-165		5		1677	1239
2-Fluorobiphenyl (S)	106 %		10-123		5		1677	1239
Terphenyl-d14 (S)	161 %	MI*	10-150		5		1677	1239

ICP/MS DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590004** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-4** Date/Time Collected: 4/27/2010 09:10

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1714 SW-846 3010A on 05/02/2010 16:03 by R_V
Analytical Batches:
Batch: 1396 SW-846 6020A on 05/11/2010 03:00 by A_H DF = 1.
Batch: 1397 SW-846 6020A on 05/11/2010 13:51 by A_H DF = 1.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Aluminum	0.0709		0.0100	0.00904	1		1714	1397
Arsenic	0.0244		0.00500	0.00160	1		1714	1396
Barium	0.258		0.00500	0.000476	1		1714	1396
Cadmium	ND		0.00500	0.000612	1		1714	1396
Chromium	ND		0.00500	0.000466	1		1714	1396
Cobalt	0.00582		0.00500	0.000148	1		1714	1396
Copper	ND		0.00500	0.000457	1		1714	1396
Lead	ND		0.00500	0.000158	1		1714	1396
Manganese	0.0637		0.00500	0.000337	1		1714	1396
Molybdenum	0.0164		0.0100	0.000743	1		1714	1397
Nickel	0.0369		0.00500	0.00273	1		1714	1396
Selenium	ND		0.00500	0.00352	1		1714	1396
Silver	ND		0.00500	0.000149	1		1714	1396
Zinc	0.0128		0.0100	0.00160	1		1714	1396

METALS

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1132 SW-846 7470A on 04/29/2010 10:30 by R_V
Analytical Batches:
Batch: 1121 SW-846 7470A on 04/29/2010 13:11 by R_V

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1132	1121

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas
SW-846 8015B GRO GasAnalytical Batches:
Batch: 1624 SW-846 8015B GRO Gas on 05/06/2010 14:27 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1624
1,4-Difluorobenzene (S)	93.1 %		60-155		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590004** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-4** Date/Time Collected: 4/27/2010 09:10

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
4-Bromofluorobenzene (S)	93.1 %		50-158		1			1624

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590005** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-5** Date/Time Collected: 4/27/2010 09:45

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1278 EPA 300.0 on 05/03/2010 20:39 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	85.5		5.00	1.26	10			1278

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 1683 SW-846 8015B DRO LVI on 05/01/2010 13:57 by N_M

Analytical Batches:

Batch: 1498 SW-846 8015B DRO LVI on 05/05/2010 12:13 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	3.4		0.25	0.037	5		1683	1498
n-Pentacosane (S)	77 %		20-150		5		1683	1498

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B Preparation Batches:

Batch: 1708 SW-846 3010A on 04/29/2010 20:00 by R_V

Analytical Batches:

Batch: 1384 SW-846 6010B on 05/11/2010 20:52 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Boron	0.342		0.100	0.00100	1		1708	1384
Iron	3.34		0.0200	0.00640	1		1708	1384

VOLATILES

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

Batch: 1634 SW-846 8021B on 05/10/2010 13:20 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	1.4		1.0	0.30	1			1634
Ethylbenzene	ND		1.0	0.22	1			1634
Toluene	1.2		1.0	0.25	1			1634
m,p-Xylene	ND		1.0	0.30	1			1634

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590005** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **IW-5** Date/Time Collected: 4/27/2010 09:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
o-Xylene	ND		1.0	0.32	1			1634
Xylenes, Total	ND		1.0	0.30	1			1634
1,4-Difluorobenzene (S)	102 %		70-130		1			1634
4-Bromofluorobenzene (S)	96.8 %		70-130		1			1634
Preservation pH	<2				1			1634

PAH SIM

Analysis Desc: SW-846 8270C SIM
Preparation Batches:
Batch: 1677 SW-846 3510C on 04/30/2010 08:54 by N_M
Analytical Batches:
Batch: 1239 SW-846 8270C SIM on 05/05/2010 21:10 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Acenaphthene	ND		0.27	0.15	5		1677	1239
Acenaphthylene	ND		0.27	0.15	5		1677	1239
Anthracene	ND		0.27	0.15	5		1677	1239
Benzo(a)anthracene	ND		0.27	0.15	5		1677	1239
Benzo(a)pyrene	ND		3.8	0.16	5		1677	1239
Benzo(b)fluoranthene	ND		0.27	0.16	5		1677	1239
Benzo(g,h,i)perylene	ND		0.27	0.15	5		1677	1239
Benzo(k)fluoranthene	ND		0.27	0.19	5		1677	1239
Chrysene	0.99		0.27	0.15	5		1677	1239
Dibenz(a,h)anthracene	ND		0.27	0.14	5		1677	1239
Dibenzofuran	5.4		0.27	0.14	5		1677	1239
Fluoranthene	0.48		0.27	0.12	5		1677	1239
Fluorene	2.1		0.27	0.15	5		1677	1239
Indeno(1,2,3-cd)pyrene	ND		0.27	0.15	5		1677	1239
1-Methylnaphthalene	2.5		0.27	0.16	5		1677	1239
2-Methylnaphthalene	ND		0.27	0.17	5		1677	1239
Naphthalene	0.69		0.27	0.18	5		1677	1239
Phenanthrene	5.8		0.27	0.15	5		1677	1239
Pyrene	0.97		0.27	0.17	5		1677	1239
Nitrobenzene-d5 (S)	910 %	MI*	10-165		5		1677	1239
2-Fluorobiphenyl (S)	67 %		10-123		5		1677	1239
Terphenyl-d14 (S)	87 %		10-150		5		1677	1239

ICP/MS DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590005** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-5** Date/Time Collected: 4/27/2010 09:45

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1714 SW-846 3010A on 05/02/2010 16:03 by R_V
Analytical Batches:
Batch: 1396 SW-846 6020A on 05/11/2010 04:11 by A_H DF = 1.
Batch: 1397 SW-846 6020A on 05/11/2010 15:09 by A_H DF = 1.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Aluminum	0.0524		0.0100	0.00904	1		1714	1397
Arsenic	0.0207		0.00500	0.00160	1		1714	1396
Barium	0.705		0.00500	0.000476	1		1714	1396
Cadmium	ND		0.00500	0.000612	1		1714	1396
Chromium	ND		0.00500	0.000466	1		1714	1396
Cobalt	ND		0.00500	0.000148	1		1714	1396
Copper	ND		0.00500	0.000457	1		1714	1396
Lead	ND		0.00500	0.000158	1		1714	1396
Manganese	0.110		0.00500	0.000337	1		1714	1396
Molybdenum	0.0221		0.0100	0.000743	1		1714	1397
Nickel	0.00881		0.00500	0.00273	1		1714	1396
Selenium	ND		0.00500	0.00352	1		1714	1396
Silver	ND		0.00500	0.000149	1		1714	1396
Zinc	ND		0.0100	0.00160	1		1714	1396

METALS

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1132 SW-846 7470A on 04/29/2010 10:30 by R_V
Analytical Batches:
Batch: 1121 SW-846 7470A on 04/29/2010 13:13 by R_V

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1132	1121

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas
SW-846 8015B GRO GasAnalytical Batches:
Batch: 1632 SW-846 8015B GRO Gas on 05/10/2010 13:20 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.39		0.10	0.017	1			1632
1,4-Difluorobenzene (S)	107 %		60-155		1			1632

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590005** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-5** Date/Time Collected: 4/27/2010 09:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
4-Bromofluorobenzene (S)	104 %		50-158		1			1632

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590006** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **IW-7** Date/Time Collected: 4/27/2010 10:10

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:
Batch: 1278 EPA 300.0 on 05/03/2010 20:58 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	71.6		5.00	1.26	10			1278

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 1683 SW-846 8015B DRO LVI on 05/01/2010 13:57 by N_M
Analytical Batches:
Batch: 1498 SW-846 8015B DRO LVI on 05/05/2010 12:45 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	85		1.0	0.15	20		1683	1498
n-Pentacosane (S)	0 %	D*	20-150		20		1683	1498

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B Preparation Batches:
Batch: 1708 SW-846 3010A on 04/29/2010 20:00 by R_V
Analytical Batches:
Batch: 1384 SW-846 6010B on 05/11/2010 20:58 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Boron	0.275		0.100	0.00100	1		1708	1384
Iron	0.194		0.0200	0.00640	1		1708	1384

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 1634 SW-846 8021B on 05/10/2010 13:48 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.30	1			1634
Ethylbenzene	ND		1.0	0.22	1			1634
Toluene	ND		1.0	0.25	1			1634
m,p-Xylene	1.4		1.0	0.30	1			1634

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590006** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **IW-7** Date/Time Collected: 4/27/2010 10:10

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
o-Xylene	ND		1.0	0.32	1			1634
Xylenes, Total	1.4		1.0	0.30	1			1634
1,4-Difluorobenzene (S)	102 %		70-130		1			1634
4-Bromofluorobenzene (S)	101 %		70-130		1			1634
Preservation pH	<2				1			1634

PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1677 SW-846 3510C on 04/30/2010 08:54 by N M
Analytical Batches:
Batch: 1239 SW-846 8270C SIM on 05/05/2010 15:47 by SBG DF = 50
Batch: 1239 SW-846 8270C SIM on 05/05/2010 21:42 by SBG DF = 5

Parameters	Results ug/l	Qual*	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		0.25	0.14	5		1677	1239
Acenaphthylene	ND		0.25	0.14	5		1677	1239
Anthracene	ND		0.25	0.14	5		1677	1239
Benzo(a)anthracene	1.3		0.25	0.14	5		1677	1239
Benzo(a)pyrene	ND		3.5	0.15	5		1677	1239
Benzo(b)fluoranthene	0.56		0.25	0.14	5		1677	1239
Benzo(g,h,i)perylene	ND		0.25	0.13	5		1677	1239
Benzo(k)fluoranthene	ND		0.25	0.17	5		1677	1239
Chrysene	2.5		0.25	0.14	5		1677	1239
Dibenz(a,h)anthracene	ND		0.25	0.13	5		1677	1239
Dibenzofuran	12		0.25	0.13	5		1677	1239
Fluoranthene	1.2		0.25	0.11	5		1677	1239
Fluorene	10		0.25	0.14	5		1677	1239
Indeno(1,2,3-cd)pyrene	ND		0.25	0.14	5		1677	1239
1-Methylnaphthalene	48		2.5	1.5	50		1677	1239
2-Methylnaphthalene	7.5		0.25	0.15	5		1677	1239
Naphthalene	5.3		0.25	0.17	5		1677	1239
Phenanthrene	17		0.25	0.14	5		1677	1239
Pyrene	2.5		0.25	0.15	5		1677	1239
Nitrobenzene-d5 (S)	0 %	*	10-165		50		1677	1239
Nitrobenzene-d5 (S)	9450 %	MI*	10-165		5		1677	1239
2-Fluorobiphenyl (S)	0 %	*	10-123		50		1677	1239
2-Fluorobiphenyl (S)	92.5 %		10-123		5		1677	1239
Terphenyl-d14 (S)	0 %	*	10-150		50		1677	1239

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590006** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **IW-7** Date/Time Collected: 4/27/2010 10:10

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Terphenyl-d14 (S)	150 %		10-150		5		1677	1239

ICP/MS DISSOLVED METALS

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1714 SW-846 3010A on 05/02/2010 16:03 by R_V
Analytical Batches:
Batch: 1396 SW-846 6020A on 05/11/2010 04:18 by A_H DF = 1
Batch: 1397 SW-846 6020A on 05/11/2010 15:15 by A_H DF = 1

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Aluminum	0.0585		0.0100	0.00904	1		1714	1397
Arsenic	0.0241		0.00500	0.00160	1		1714	1396
Barium	0.206		0.00500	0.000476	1		1714	1396
Cadmium	ND		0.00500	0.000612	1		1714	1396
Chromium	ND		0.00500	0.000466	1		1714	1396
Cobalt	ND		0.00500	0.000148	1		1714	1396
Copper	ND		0.00500	0.000457	1		1714	1396
Lead	ND		0.00500	0.000158	1		1714	1396
Manganese	0.0452		0.00500	0.000337	1		1714	1396
Molybdenum	0.0312		0.0100	0.000743	1		1714	1397
Nickel	ND		0.00500	0.00273	1		1714	1396
Selenium	ND		0.00500	0.00352	1		1714	1396
Silver	ND		0.00500	0.000149	1		1714	1396
Zinc	ND		0.0100	0.00160	1		1714	1396

METALS

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1132 SW-846 7470A on 04/29/2010 10:30 by R_V
Analytical Batches:
Batch: 1121 SW-846 7470A on 04/29/2010 13:16 by R_V

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1132	1121

Gasoline Range Organics (GRO)

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590006** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **IW-7** Date/Time Collected: 4/27/2010 10:10

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

Batch: 1632 SW-846 8015B GRO Gas on 05/10/2010 13:48 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.51		0.10	0.017	1			1632
1,4-Difluorobenzene (S)	106 %		60-155		1			1632
4-Bromofluorobenzene (S)	123 %		50-158		1			1632

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590007** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **Dup #1** Date/Time Collected: 4/27/2010 00:00

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1278 EPA 300.0 on 05/03/2010 21:17 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	73.6		5.00	1.26	10			1278

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 1683 SW-846 8015B DRO LVI on 05/01/2010 13:56 by N_M

Analytical Batches:

Batch: 1498 SW-846 8015B DRO LVI on 05/05/2010 13:17 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	86		1.2	0.18	25		1683	1498
n-Pentacosane (S)	0 %	D*	20-150		25		1683	1498

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B Preparation Batches:

Batch: 1708 SW-846 3010A on 04/29/2010 20:00 by R_V

Analytical Batches:

Batch: 1384 SW-846 6010B on 05/11/2010 21:04 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Boron	0.262		0.100	0.00100	1		1708	1384
Iron	0.147		0.0200	0.00640	1		1708	1384

VOLATILES

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

Batch: 1634 SW-846 8021B on 05/10/2010 12:52 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.30	1			1634
Ethylbenzene	ND		1.0	0.22	1			1634
Toluene	ND		1.0	0.25	1			1634
m,p-Xylene	1.4		1.0	0.30	1			1634

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590007** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **Dup #1** Date/Time Collected: 4/27/2010 00:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
o-Xylene	ND		1.0	0.32	1			1634
Xylenes, Total	1.4		1.0	0.30	1			1634
1,4-Difluorobenzene (S)	102 %		70-130		1			1634
4-Bromofluorobenzene (S)	101 %		70-130		1			1634
Preservation pH	<2				1			1634

PAH SIM

Analysis Desc: SW-846 8270C SIM Preparation Batches:
Batch: 1677 SW-846 3510C on 04/30/2010 08:52 by N_M
Analytical Batches:
Batch: 1239 SW-846 8270C SIM on 05/05/2010 16:20 by SBG DF = 50
Batch: 1239 SW-846 8270C SIM on 05/05/2010 22:14 by SBG DF = 5

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		0.26	0.15	5		1677	1239
Acenaphthylene	ND		0.26	0.15	5		1677	1239
Anthracene	ND		0.26	0.14	5		1677	1239
Benzo(a)anthracene	0.97		0.26	0.14	5		1677	1239
Benzo(a)pyrene	ND		3.7	0.16	5		1677	1239
Benzo(b)fluoranthene	0.70		0.26	0.15	5		1677	1239
Benzo(g,h,i)perylene	ND		0.26	0.14	5		1677	1239
Benzo(k)fluoranthene	ND		0.26	0.18	5		1677	1239
Chrysene	3.0		0.26	0.15	5		1677	1239
Dibenz(a,h)anthracene	ND		0.26	0.14	5		1677	1239
Dibenzofuran	13		0.26	0.14	5		1677	1239
Fluoranthene	1.5		0.26	0.12	5		1677	1239
Fluorene	11		0.26	0.14	5		1677	1239
Indeno(1,2,3-cd)pyrene	ND		0.26	0.14	5		1677	1239
1-Methylnaphthalene	51		2.6	1.6	50		1677	1239
2-Methylnaphthalene	8.4		0.26	0.16	5		1677	1239
Naphthalene	5.4		0.26	0.18	5		1677	1239
Phenanthrene	19		0.26	0.14	5		1677	1239
Pyrene	2.9		0.26	0.16	5		1677	1239
Nitrobenzene-d5 (S)	0 %	*	10-165		50		1677	1239
Nitrobenzene-d5 (S)	3200 %	MI*	10-165		5		1677	1239
2-Fluorobiphenyl (S)	0 %	*	10-123		50		1677	1239
2-Fluorobiphenyl (S)	98.5 %		10-123		5		1677	1239
Terphenyl-d14 (S)	0 %	*	10-150		50		1677	1239

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590007** Date/Time Received: 4/28/2010 09:15 Matrix: Water
Sample ID: **Dup #1** Date/Time Collected: 4/27/2010 00:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Terphenyl-d14 (S)	152 %	MI*	10-150		5		1677	1239

ICP/MS DISSOLVED METALS

Analysis Desc: SW-846 6020A
Preparation Batches:
Batch: 1714 SW-846 3010A on 05/02/2010 16:03 by R_V
Analytical Batches:
Batch: 1396 SW-846 6020A on 05/11/2010 04:24 by A_H DF = 1
Batch: 1397 SW-846 6020A on 05/11/2010 15:21 by A_H DF = 1

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Aluminum	0.0632		0.0100	0.00904	1		1714	1397
Arsenic	0.0235		0.00500	0.00160	1		1714	1396
Barium	0.200		0.00500	0.000476	1		1714	1396
Cadmium	ND		0.00500	0.000612	1		1714	1396
Chromium	ND		0.00500	0.000466	1		1714	1396
Cobalt	ND		0.00500	0.000148	1		1714	1396
Copper	ND		0.00500	0.000457	1		1714	1396
Lead	ND		0.00500	0.000158	1		1714	1396
Manganese	0.0446		0.00500	0.000337	1		1714	1396
Molybdenum	0.0355		0.0100	0.000743	1		1714	1397
Nickel	ND		0.00500	0.00273	1		1714	1396
Selenium	ND		0.00500	0.00352	1		1714	1396
Silver	ND		0.00500	0.000149	1		1714	1396
Zinc	ND		0.0100	0.00160	1		1714	1396

METALS

Analysis Desc: SW-846 7470A
Preparation Batches:
Batch: 1132 SW-846 7470A on 04/29/2010 10:30 by R_V
Analytical Batches:
Batch: 1121 SW-846 7470A on 04/29/2010 13:18 by R_V

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1132	1121

Gasoline Range Organics (GRO)

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590007** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **Dup #1** Date/Time Collected: 4/27/2010 00:00

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

Batch: 1632 SW-846 8015B GRO Gas on 05/10/2010 12:52 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.52		0.10	0.017	1			1632
1,4-Difluorobenzene (S)	107 %		60-155		1			1632
4-Bromofluorobenzene (S)	122 %		50-158		1			1632

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ANALYTICAL RESULTS

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID: **H10040590008** Date/Time Received: 4/28/2010 09:15 Matrix: Water

Sample ID: **Trip Blank** Date/Time Collected: 4/27/2010 11:00

VOLATILES

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

Batch: 1626 SW-846 8021B on 05/06/2010 16:30 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.30	1			1626
Ethylbenzene	ND		1.0	0.22	1			1626
Toluene	ND		1.0	0.25	1			1626
m,p-Xylene	ND		1.0	0.30	1			1626
o-Xylene	ND		1.0	0.32	1			1626
Xylenes, Total	ND		1.0	0.30	1			1626
1,4-Difluorobenzene (S)	100 %		70-130		1			1626
4-Bromofluorobenzene (S)	100 %		70-130		1			1626
Preservation pH	<2				1			1626

Gasoline Range Organics (GRO)

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

Batch: 1624 SW-846 8015B GRO Gas on 05/06/2010 16:30 by JWS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1624
1,4-Difluorobenzene (S)	92.8 %		60-155		1			1624
4-Bromofluorobenzene (S)	93.7 %		50-158		1			1624

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QUALITY CONTROL DATA

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: HGPR/1132 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Preparation: 04/29/2010 10:30 by R_V

Associated Lab Samples: H10040579001 H10040590001 H10040590002 H10040590003 H10040590004 H10040590005 H10040590006 H10040590007

METHOD BLANK: 42029

Analysis Date/Time Analyst: 04/29/2010 12:47 R_V

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Mercury	mg/l	ND		0.000200

LABORATORY CONTROL SAMPLE: 42030

Analysis Date/Time Analyst: 04/29/2010 12:49 R_V

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/l	0.002	0.002057	103	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:42027 42028 Original: H10040590001

MS Analysis Date/Time Analyst: 04/29/2010 12:54 R_V

MSD Analysis Date/Time Analyst: 04/29/2010 12:56 R_V

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	0.001978	0.001925	98.9	96.2	80-120	2.7	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: DIGM/1708 Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A Preparation: 04/29/2010 20:00 by R_V

Associated Lab Samples: H10040590001 H10040590002 H10040590003 H10040590004 H10040590005 H10040590006 H10040590007 H10040613001 H10040613002 H10040613003 H10040613004

METHOD BLANK: 42177

Analysis Date/Time Analyst: 05/11/2010 19:28 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Boron	mg/l	ND		0.100
Iron	mg/l	ND		0.0200

LABORATORY CONTROL SAMPLE: 42178

Analysis Date/Time Analyst: 05/11/2010 19:34 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Boron	mg/l	1.0	0.9564	95.6	80-120
Iron	mg/l	1.0	1.097	110	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:42179 42180 Original: H10040590003

MS Analysis Date/Time Analyst: 05/11/2010 19:46 EBG

MSD Analysis Date/Time Analyst: 05/11/2010 19:52 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Boron	mg/l	0.184	1.0	1.165	1.133	98.1	94.9	75-125	2.8	20
Iron	mg/l	0.0503	1.0	1.111	1.094	106	104	75-125	1.5	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: EXTO/1677 Analysis Method: SW-846 8270C SIM

QC Batch Method: SW-846 3510C Preparation: 04/30/2010 08:51 by N_M

Associated Lab Samples: H10040590001 H10040590002 H10040590003 H10040590004 H10040590005 H10040590006 H10040590007 H10040618001

METHOD BLANK: 42234

Analysis Date/Time Analyst: 05/05/2010 13:05 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
1-Methylnaphthalene	ug/l	ND		0.050
2-Methylnaphthalene	ug/l	ND		0.050
Acenaphthene	ug/l	ND		0.050
Acenaphthylene	ug/l	ND		0.050
Anthracene	ug/l	ND		0.050
Benzo(a)anthracene	ug/l	ND		0.050
Benzo(a)pyrene	ug/l	ND		0.050
Benzo(b)fluoranthene	ug/l	ND		0.050
Benzo(g,h,i)perylene	ug/l	ND		0.050
Benzo(k)fluoranthene	ug/l	ND		0.050
Chrysene	ug/l	ND		0.050
Dibenz(a,h)anthracene	ug/l	ND		0.050
Dibenzofuran	ug/l	ND		0.050
Fluoranthene	ug/l	ND		0.050
Fluorene	ug/l	ND		0.050
Indeno(1,2,3-cd)pyrene	ug/l	ND		0.050
Naphthalene	ug/l	ND		0.050
Phenanthrene	ug/l	ND		0.050
Pyrene	ug/l	ND		0.050
Nitrobenzene-d5 (S)	%	74		10-165
2-Fluorobiphenyl (S)	%	85.1		10-123
Terphenyl-d14 (S)	%	91.5		10-150

LABORATORY CONTROL SAMPLE & LCSD: 42235 42236

LCS Analysis Date/Time Analyst: 05/05/2010 12:01 SBG

LCSD Analysis Date/Time 05/05/2010 12:33 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
1-Methylnaphthalene	ug/l	0.5	0.412	0.409	82.5	81.8	10-171	0.9	30
2-Methylnaphthalene	ug/l	0.5	0.51	0.505	102	101	15-175	1.0	30
Acenaphthene	ug/l	0.5	0.444	0.454	88.9	90.8	17-165	2.1	30
Acenaphthylene	ug/l	0.5	0.423	0.438	84.6	87.7	10-161	3.6	30
Anthracene	ug/l	0.5	0.457	0.434	91.4	86.8	10-157	5.2	30
Benzo(a)anthracene	ug/l	0.5	0.456	0.449	91.2	89.8	10-143	1.6	30
Benzo(a)pyrene	ug/l	0.5	0.50	0.50	100	100	12-136	0.0	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

LABORATORY CONTROL SAMPLE & LCSD: 42235 42236

LCS Analysis Date/Time Analyst: 05/05/2010 12:01 SBG

LCSD Analysis Date/Time 05/05/2010 12:33 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Benzo(b)fluoranthene	ug/l	0.5	0.535	0.52	107	104	10-146	2.8	30
Benzo(g,h,i)perylene	ug/l	0.5	0.515	0.505	103	101	10-153	2.0	30
Benzo(k)fluoranthene	ug/l	0.5	0.324	0.316	64.9	63.2	10-115	2.7	30
Chrysene	ug/l	0.5	0.442	0.438	88.5	87.7	10-188	0.9	30
Dibenz(a,h)anthracene	ug/l	0.5	0.492	0.50	98.5	100	10-159	1.5	30
Dibenzofuran	ug/l	0.5	0.479	0.485	95.8	97.0	30-160	1.2	30
Fluoranthene	ug/l	0.5	0.416	0.402	83.3	80.4	19-190	3.5	30
Fluorene	ug/l	0.5	0.43	0.438	86.1	87.7	18-199	1.8	30
Indeno(1,2,3-cd)pyrene	ug/l	0.5	0.438	0.432	87.6	86.4	10-185	1.4	30
Naphthalene	ug/l	0.5	0.449	0.445	89.8	89.0	18-147	0.9	30
Phenanthrene	ug/l	0.5	0.473	0.475	94.6	95.0	10-193	0.4	30
Pyrene	ug/l	0.5	0.474	0.478	94.7	95.5	10-192	0.8	30
Nitrobenzene-d5 (S)	%				94.2	92.9	10-165		30
2-Fluorobiphenyl (S)	%				102	98.6	10-123		30
Terphenyl-d14 (S)	%				103	102	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: EXTO/1683 Analysis Method: SW-846 8015B DRO LVI

QC Batch Method: SW-846 8015B DRO LVI Preparation: 05/01/2010 13:54 by N_M

Associated Lab Samples: H10040590001 H10040590002 H10040590003 H10040590004 H10040590005 H10040590006 H10040590007 H10040617022 H10040617023 H10040617024

METHOD BLANK: 42566

Analysis Date/Time Analyst: 05/05/2010 04:43 AAM

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diesel Range Organics(C10-C28)	mg/l	ND		0.050
n-Pentacosane (S)	%	118		20-150

LABORATORY CONTROL SAMPLE & LCSD: 42567 42568

LCS Analysis Date/Time Analyst: 05/05/2010 05:15 AAM

LCSD Analysis Date/Time 05/05/2010 05:47 AAM

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Diesel Range Organics(C10-C28)	mg/l	2	1.3	1.27	86.8	84.6	21-175	2.6	43
n-Pentacosane (S)	%				133	123	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: DIGM/1714 Analysis Method: SW-846 6020A

QC Batch Method: SW-846 3010A Preparation: 05/02/2010 16:03 by R_V

Associated Lab Samples: H10040590001 H10040590002 H10040590003 H10040590004 H10040590005 H10040590006 H10040590007

METHOD BLANK: 42628

Analysis Date/Time Analyst: 05/11/2010 02:47 A_H

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Arsenic	mg/l	ND		0.00500
Barium	mg/l	ND		0.00500
Cadmium	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: 05/11/2010 13:39 A_H

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Aluminum	mg/l	ND		0.0100
Molybdenum	mg/l	ND		0.0100

LABORATORY CONTROL SAMPLE: 42629

Analysis Date/Time Analyst: 05/11/2010 08:39 A_H

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Arsenic	mg/l	0.10	0.1039	104	80-120
Barium	mg/l	0.10	0.09231	92.3	80-120
Cadmium	mg/l	0.10	0.09876	98.8	80-120
Chromium	mg/l	0.10	0.09348	93.5	80-120
Cobalt	mg/l	0.10	0.09787	97.9	80-120
Copper	mg/l	0.10	0.1065	106	80-120
Lead	mg/l	0.10	0.09256	92.6	80-120
Manganese	mg/l	0.10	0.09456	94.6	80-120
Nickel	mg/l	0.10	0.105	105	80-120
Selenium	mg/l	0.10	0.1103	110	80-120
Silver	mg/l	0.10	0.100	100	80-120
Zinc	mg/l	0.10	0.1159	116	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

LABORATORY CONTROL SAMPLE: 42629

Analysis Date/Time Analyst: 05/11/2010 15:27 A_H

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Aluminum	mg/l	1.0	1.108	111	80-120
Molybdenum	mg/l	0.10	0.1086	109	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:42630 42631 Original: H10040590004

MS Analysis Date/Time Analyst: 05/11/2010 03:06 A_H

MSD Analysis Date/Time Analyst: 05/11/2010 03:13 A_H

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic	mg/l	0.0244	0.10	0.1307	0.1467	106	122	75-125	11.5	20
Barium	mg/l	0.258	0.10	0.3521	0.360	94.2	102	75-125	2.2	20
Cadmium	mg/l	8.55e-00	0.10	0.1022	0.1173	102	117	75-125	13.8	20
Chromium	mg/l	0.00103	0.10	0.09701	0.1123	96.0	111	75-125	14.6	20
Cobalt	mg/l	0.00582	0.10	0.1014	0.1038	95.6	98.0	75-125	2.3	20
Copper	mg/l	0.00057	0.10	0.1077	0.1239	107	123	75-125	14.0	20
Lead	mg/l	6.15e-00	0.10	0.09107	0.1057	91.0	106	75-125	14.9	20
Manganese	mg/l	0.0637	0.10	0.1529	0.1564	89.2	92.7	75-125	2.3	20
Nickel	mg/l	0.0369	0.10	0.1446	0.1653	108	128 *	75-125	13.4	20
Selenium	mg/l	0.00178	0.10	0.1024	0.1225	101	121	75-125	17.9	20
Silver	mg/l	0.00023	0.10	0.09896	0.0985	98.7	98.3	75-125	0.5	20
Zinc	mg/l	0.0128	0.10	0.1115	0.1125	98.7	99.7	75-125	0.9	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:42630 42631 Original: H10040590004

MS Analysis Date/Time Analyst: 05/11/2010 13:57 A_H

MSD Analysis Date/Time Analyst: 05/11/2010 14:03 A_H

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Aluminum	mg/l	0.0709	1.0	1.264	1.251	119	118	75-125	1.0	20
Molybdenum	mg/l	0.0164	0.10	0.1353	0.1394	119	123	75-125	3.0	20

POST DIGESTION SPIKE & DUPLICATE: 44401 44402 Original: H10040590004

PDS Analysis Date/Time Analyst: 05/11/2010 03:26 A_H

PDSD Analysis Date/Time Analyst: 05/11/2010 03:32 A_H

Parameter	Units	Original Result	Spike Conc.	PDS Result	PDSD Result	PDS % Rec	PDSD % Rec	% Rec Limit	RPD	Max RPD
Nickel	mg/l	0.0369	0.5	0.577	0.572	108	107	75-125	0.9	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: IC/1278 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10040547001 H10040547002 H10040547003 H10040548001 H10040548002 H10040590001 H10040590002 H10040590003 H10040590004 H10040590005 H10040590006 H10040590007 H10040633001 H10040637001

METHOD BLANK: 42929

Analysis Date/Time Analyst: 05/03/2010 10:36 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 42930

Analysis Date/Time Analyst: 05/03/2010 10:55 CFS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Chloride	mg/l	10	10.04	100	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:42931 42932 Original: H10040633001

MS Analysis Date/Time Analyst: 05/03/2010 13:45 CFS

MSD Analysis Date/Time Analyst: 05/03/2010 14:04 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	514	500	1049	1040	107	105	80-120	0.9	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:42933 42934 Original: H10040590007

MS Analysis Date/Time Analyst: 05/03/2010 21:36 CFS

MSD Analysis Date/Time Analyst: 05/03/2010 21:55 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	73.6	100	176.9	178.4	103	105	80-120	0.9	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: GCVW/1623 Analysis Method: SW-846 8015B GRO Gas

QC Batch Method: SW-846 5030 Preparation: 05/06/2010 00:00 by GCV

Associated Lab Samples: H10040590001 H10040590002 H10040590003 H10040590004 H10040590008

METHOD BLANK: 44114

Analysis Date/Time Analyst: 05/06/2010 08:09 JWS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	92.3		50-158
1,4-Difluorobenzene (S)	%	93.4		60-155

LABORATORY CONTROL SAMPLE: 44115

Analysis Date/Time Analyst: 05/06/2010 07:42 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	0.967	96.7	70-130
4-Bromofluorobenzene (S)	%			94.0	50-158
1,4-Difluorobenzene (S)	%			98.9	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:44116 44117 Original: H10050137001

MS Analysis Date/Time Analyst: 05/06/2010 18:34 JWS

MSD Analysis Date/Time Analyst: 05/06/2010 19:02 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	0.1	1.0	1.19	1.17	119	117	36-160	1.4	36
4-Bromofluorobenzene (S)	%	ND				96.5	95.9	50-158		30
1,4-Difluorobenzene (S)	%	ND				99.5	99.3	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: H10040590 ; COP / NM1-1 Project Number: 114-6400484

QC Batch: GCVW/1625 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 05/06/2010 00:00 by GCV

Associated Lab Samples: H10040590001 H10040590002 H10040590003 H10040590004 H10040590008

METHOD BLANK: 44133

Analysis Date/Time Analyst: 05/06/2010 08:09 JWS

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)	%	101		70-130
4-Bromofluorobenzene (S)	%	98.7		70-130

LABORATORY CONTROL SAMPLE: 44134

Analysis Date/Time Analyst: 05/06/2010 07:14 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	19.1	95.4	70-130
Ethylbenzene	ug/l	20	19.0	95.0	70-130
Toluene	ug/l	20	19.0	94.8	70-130
m,p-Xylene	ug/l	40	39.3	98.1	70-130
o-Xylene	ug/l	20	19.0	95.0	70-130
Xylenes, Total	ug/l	60	58.3	97.1	70-130
1,4-Difluorobenzene (S)	%			100	70-130
4-Bromofluorobenzene (S)	%			98.8	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:44135 44136 Original: H10040590001

MS Analysis Date/Time Analyst: 05/06/2010 11:09 JWS

MSD Analysis Date/Time Analyst: 05/06/2010 11:36 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	21.6	14.5	108	72.7	66-141	39.1 *	31
Ethylbenzene	ug/l	ND	20	21.5	14.0	107	70.0	52-136	42.1 *	28
Toluene	ug/l	ND	20	21.1	14.2	105	71.1	61-131	38.9 *	25
m,p-Xylene	ug/l	ND	40	44.4	28.7	111	71.7	60-130	43.0 *	36
o-Xylene	ug/l	ND	20	21.7	13.8	109	69.2	64-130	44.5 *	30
Xylenes, Total	ug/l	ND	60	66.1	42.5	110	70.9	60-130	43.5 *	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.

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:44135 44136 Original: H10040590001

MS Analysis Date/Time Analyst: 05/06/2010 11:09 JWS

MSD Analysis Date/Time Analyst: 05/06/2010 11:36 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
1,4-Difluorobenzene (S)	%	98.7				99.5	99.1	70-130		30
4-Bromofluorobenzene (S)	%	98.7				101	99.1	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: GCVW/1631 Analysis Method: SW-846 8015B GRO Gas

QC Batch Method: SW-846 5030 Preparation: 05/10/2010 00:00 by GCV

Associated Lab Samples: H10040590005 H10040590006 H10040590007 H10040617001 H10040617002 H10040617003 H10040617004 H10040617006 H10040617007 H10040617008 H10040617009 H10040617010 H10040617011 H10040617012 H10040617013 H10040617022 H10040617023 H10040617024

METHOD BLANK: 44374

Analysis Date/Time Analyst: 05/10/2010 12:24 JWS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	100		50-158
1,4-Difluorobenzene (S)	%	99.2		60-155

LABORATORY CONTROL SAMPLE: 44375

Analysis Date/Time Analyst: 05/10/2010 11:57 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	0.983	98.3	70-130
4-Bromofluorobenzene (S)	%			103	50-158
1,4-Difluorobenzene (S)	%			106	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:44376 44377 Original: H10040617008

MS Analysis Date/Time Analyst: 05/10/2010 23:49 JWS

MSD Analysis Date/Time Analyst: 05/11/2010 00:17 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	0.01	1.0	1.15	1.1	114	109	36-160	4.5	36
4-Bromofluorobenzene (S)	%	102				103	104	50-158		30
1,4-Difluorobenzene (S)	%	99.9				106	106	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

QC Batch: GCVW/1633 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 05/10/2010 00:00 by GCV

Associated Lab Samples: H10040590005 H10040590006 H10040590007 H10040617001 H10040617002 H10040617003 H10040617004 H10040617006 H10040617007 H10040617008 H10040617009 H10040617010 H10040617011 H10040617012 H10040617013 H10040617022 H10040617023 H10040617024

METHOD BLANK: 44448

Analysis Date/Time Analyst: 05/10/2010 12:24 JWS

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)	%	100		70-130
4-Bromofluorobenzene (S)	%	97.1		70-130

LABORATORY CONTROL SAMPLE: 44449

Analysis Date/Time Analyst: 05/10/2010 11:29 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	20.9	104	70-130
Ethylbenzene	ug/l	20	20.7	104	70-130
Toluene	ug/l	20	21.0	105	70-130
m,p-Xylene	ug/l	40	42.8	107	70-130
o-Xylene	ug/l	20	20.7	104	70-130
Xylenes, Total	ug/l	60	63.6	106	70-130
1,4-Difluorobenzene (S)	%			100	70-130
4-Bromofluorobenzene (S)	%			97.7	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:44450 44451 Original: H10040617022

MS Analysis Date/Time Analyst: 05/10/2010 15:24 JWS

MSD Analysis Date/Time Analyst: 05/10/2010 15:52 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	4.1	20	33.1	32.2	145 *	141	66-141	2.6	31
Ethylbenzene	ug/l	5.5	20	28.4	27.8	114	111	52-136	2.2	28
Toluene	ug/l	0.59	20	24.9	24.3	122	119	61-131	2.3	25
m,p-Xylene	ug/l	0.65	40	49.3	48.3	122	119	60-130	2.0	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: H10040590 : COP / NM1-1 Project Number: 114-6400484

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:44450 44451 Original: H10040617022

MS Analysis Date/Time Analyst: 05/10/2010 15:24 JWS

MSD Analysis Date/Time Analyst: 05/10/2010 15:52 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
o-Xylene	ug/l	ND	20	25.2	24.7	126	124	64-130	1.9	30
Xylenes, Total	ug/l	ND	60	74.5	73.1	124	122	60-130	1.9	36
1,4-Difluorobenzene (S)	%	103				103	102	70-130		30
4-Bromofluorobenzene (S)	%	97.1				98.0	97.6	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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Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
MI	Matrix Interference
I	Estimated value, between MDL and PQL (Florida)
JN	The analysis indicates the presence of an analyte
C	MTBE results were not confirmed by GCMS
NC	Not Calculated - Sample concentration > 4 times the spike
*	Recovery/RPD value outside QC limits
E	Results exceed calibration range
H	Exceeds holding time
J	Estimated value
Q	Received past holding time
B	Analyte detected in the Method Blank
N	Recovery outside of control limits
D	Recovery out of range due to dilution
NC	Not Calculable (Sample Duplicate)
P	Pesticide dual column results, greater then 25%
TNTC	Too numerous to count

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040590001	SVE-1	SW-846 7470A	HGPR/1132	SW-846 7470A	HG/1121
H10040590002	IW-2	SW-846 7470A	HGPR/1132	SW-846 7470A	HG/1121
H10040590003	IW-3	SW-846 7470A	HGPR/1132	SW-846 7470A	HG/1121
H10040590004	IW-4	SW-846 7470A	HGPR/1132	SW-846 7470A	HG/1121
H10040590005	IW-5	SW-846 7470A	HGPR/1132	SW-846 7470A	HG/1121
H10040590006	IW-7	SW-846 7470A	HGPR/1132	SW-846 7470A	HG/1121
H10040590007	Dup #1	SW-846 7470A	HGPR/1132	SW-846 7470A	HG/1121
H10040590001	SVE-1	SW-846 3010A	DIGM/1708	SW-846 6010B	ICP/1384
H10040590002	IW-2	SW-846 3010A	DIGM/1708	SW-846 6010B	ICP/1384
H10040590003	IW-3	SW-846 3010A	DIGM/1708	SW-846 6010B	ICP/1384
H10040590004	IW-4	SW-846 3010A	DIGM/1708	SW-846 6010B	ICP/1384
H10040590005	IW-5	SW-846 3010A	DIGM/1708	SW-846 6010B	ICP/1384
H10040590006	IW-7	SW-846 3010A	DIGM/1708	SW-846 6010B	ICP/1384
H10040590007	Dup #1	SW-846 3010A	DIGM/1708	SW-846 6010B	ICP/1384
H10040590001	SVE-1	SW-846 3510C	EXTO/1677	SW-846 8270C SIM	MSSV/1239
H10040590002	IW-2	SW-846 3510C	EXTO/1677	SW-846 8270C SIM	MSSV/1239
H10040590003	IW-3	SW-846 3510C	EXTO/1677	SW-846 8270C SIM	MSSV/1239
H10040590004	IW-4	SW-846 3510C	EXTO/1677	SW-846 8270C SIM	MSSV/1239
H10040590005	IW-5	SW-846 3510C	EXTO/1677	SW-846 8270C SIM	MSSV/1239
H10040590006	IW-7	SW-846 3510C	EXTO/1677	SW-846 8270C SIM	MSSV/1239
H10040590007	Dup #1	SW-846 3510C	EXTO/1677	SW-846 8270C SIM	MSSV/1239
H10040590001	SVE-1	SW-846 8015B DRO LVI	EXTO/1683	SW-846 8015B DRO LVI	GCSV/1498
H10040590002	IW-2	SW-846 8015B DRO LVI	EXTO/1683	SW-846 8015B DRO LVI	GCSV/1498
H10040590003	IW-3	SW-846 8015B DRO LVI	EXTO/1683	SW-846 8015B DRO LVI	GCSV/1498
H10040590004	IW-4	SW-846 8015B DRO LVI	EXTO/1683	SW-846 8015B DRO LVI	GCSV/1498
H10040590005	IW-5	SW-846 8015B DRO LVI	EXTO/1683	SW-846 8015B DRO LVI	GCSV/1498
H10040590006	IW-7	SW-846 8015B DRO LVI	EXTO/1683	SW-846 8015B DRO LVI	GCSV/1498
H10040590007	Dup #1	SW-846 8015B DRO LVI	EXTO/1683	SW-846 8015B DRO LVI	GCSV/1498
H10040590001	SVE-1	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1396
H10040590002	IW-2	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1396
H10040590003	IW-3	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1396

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040590004	IW-4	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1396
H10040590005	IW-5	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1396
H10040590006	IW-7	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1396
H10040590007	Dup #1	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1396
H10040590001	SVE-1	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1397
H10040590002	IW-2	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1397
H10040590003	IW-3	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1397
H10040590004	IW-4	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1397
H10040590005	IW-5	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1397
H10040590006	IW-7	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1397
H10040590007	Dup #1	SW-846 3010A	DIGM/1714	SW-846 6020A	ICPM/1397
H10040590001	SVE-1	EPA 300.0	IC/1278		
H10040590002	IW-2	EPA 300.0	IC/1278		
H10040590003	IW-3	EPA 300.0	IC/1278		
H10040590004	IW-4	EPA 300.0	IC/1278		
H10040590005	IW-5	EPA 300.0	IC/1278		
H10040590006	IW-7	EPA 300.0	IC/1278		
H10040590007	Dup #1	EPA 300.0	IC/1278		
H10040590001	SVE-1	SW-846 8015B GRO Gas	GCVW/1623	SW-846 8015B GRO Gas	GCVW/1624
H10040590002	IW-2	SW-846 8015B GRO Gas	GCVW/1623	SW-846 8015B GRO Gas	GCVW/1624
H10040590003	IW-3	SW-846 8015B GRO Gas	GCVW/1623	SW-846 8015B GRO Gas	GCVW/1624
H10040590004	IW-4	SW-846 8015B GRO Gas	GCVW/1623	SW-846 8015B GRO Gas	GCVW/1624
H10040590008	Trip Blank	SW-846 8015B GRO Gas	GCVW/1623	SW-846 8015B GRO Gas	GCVW/1624
H10040590001	SVE-1	SW-846 5030	GCVW/1625	SW-846 8021B	GCVW/1626
H10040590002	IW-2	SW-846 5030	GCVW/1625	SW-846 8021B	GCVW/1626
H10040590003	IW-3	SW-846 5030	GCVW/1625	SW-846 8021B	GCVW/1626
H10040590004	IW-4	SW-846 5030	GCVW/1625	SW-846 8021B	GCVW/1626
H10040590008	Trip Blank	SW-846 5030	GCVW/1625	SW-846 8021B	GCVW/1626
H10040590005	IW-5	SW-846 8015B GRO Gas	GCVW/1631	SW-846 8015B GRO Gas	GCVW/1632
H10040590006	IW-7	SW-846 8015B GRO Gas	GCVW/1631	SW-846 8015B GRO Gas	GCVW/1632
H10040590007	Dup #1	SW-846 8015B GRO Gas	GCVW/1631	SW-846 8015B GRO Gas	GCVW/1632

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040590 : COP / NM1-1 Project Number: 114-6400484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040590005	**IW-5**	SW-846 5030	GCVW/1633	SW-846 8021B	GCVW/1634
H10040590006	**IW-7**	SW-846 5030	GCVW/1633	SW-846 8021B	GCVW/1634
H10040590007	**Dup #1**	SW-846 5030	GCVW/1633	SW-846 8021B	GCVW/1634

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Sample Receipt Checklist

WorkOrder:	H10040590	Received By	LOG
Date and Time	04/28/2010 09:15	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
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:

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Fax: (713) 660-8975

SPL, Inc.

Analysis Request & Chain of Custody Record

H10040590

293770

page 1 of 5

Client Name:	Tetra Tech
Address:	1910 N Big Spring
City	Midland State TX Zip 79705
Phone/Fax:	(432) 682-4559 Fax (432) 686-8081
Client Contact:	Greg Pope Email: greg.pope@tetratech.com
Project Name/No.:	114-G4004841
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: 8021 BTEX	GRO 8015	DRO 8015	PAH 8270	Cl 300.0	TC UGCC Metals 1 Ag As Ba Cd Cr Pb Hg Se			
SVE-1	4/27/10	0755		X	W	V	40	1	6	X	X							
						A	x(2)	1	2			X						
						A	1	X	2				X					
						P	1	X	1					X				
						P	16	2	1						X			
IW-2		0830				V	40	1	6	X	X							
						A	X(2)	1	2			X						
						BA*	1	X	2				X					
						P	1	X	1					X				
						P	16	2	1						X	✓		

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2.5 / 5.2 C

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: Greg Pope / Henry Titsworth	4/27/10	1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	4/28/10	9:15	6. Received by Laboratory: Amanda Vickman

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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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SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. H10040590 | 293771 | page 2 of 5

Client Name:	Terra Tech		
Address:	1910 N Big Spring		
City	Midland	State TX	Zip 79705
Phone/Fax:	(432) 682-4559	(432) 686-8081	
Client Contact:	Greg Pope	Email: greg.pope@terratech.com	
Project Name/No.:	114-640484		
Site Name:	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	Requested Analysis: BTEX 8021	GRO 8015	DRO 8015	PAH - 8270	Cl 300.0	16 RCRA Metals + Hg (L2)			
IW-3	4/27/10	0850		X	W	V	40	1	6	X	X							
						A	X(W)	1	2			X						
						A	1	X	2				X					
						P	1	X	1					X				
						P	16	2	1						X			
IW-4		0910				V	40	1	6	X	X							
						A	X(W)	1	2			X						
						A	1	X	2				X					
						P	1	X	1					X				
						P	16	2	1						X	✓		

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.5 / 5.2 °C

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 Trawick	date 4/27/10	time 1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/28/10	time 9:15	6. Received by Laboratory: Amanda Vickers

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Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
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Fax: (713) 660-8975

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. H10040590 — 293772 — page 3 of 5

Client Name: Tetra Tech
Address: 1510 N Big Spring
City: Midland State: TX Zip: 79705
Phone/Fax: (432) 682-4559 (432)686-8081
Client Contact: Greg Pope Email: greg.pope@tetratech.com
Project Name/No.: IM-6400484
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: BTEX 8021	GRO 8015	DRO 8015	PAH 8270	Cl 300.0	RCRA Metals + Hg				
IW-5	4/27/10	0945		X	W	V	40	1	6	X	X								
						A	X(16)	1	2			X							
						A	1	X	2				X						
						P	1	X	1					X					
						P	16	2	1						X				
IW-7		1010				V	40	1	6	X	X								
						A	X(16)	1	2			X							
						A	1	X	2				X						
						P	1	X	1					X					
						P	16	2	1						X				

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2.5 2.0

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: Johnny Tilsworth	4/27/10	1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	4/28/10	9:15	6. Received by Laboratory: Amanda Vickman

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SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No: H10040590 293774
page 4 of 5

Client Name:	Tetra Tech
Address:	1910 N Big Spring
City	Midland State TX Zip 79705
Phone/Fax:	(432) 682-4559 (432) 686-8081
Client Contact:	Greg Pope Email: greg.pope@tetratech.com
Project Name/No.:	114-6400484
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: BTEX 8021	GRO 8015	DRO 8015	PAH 8270	Cl 300.0	14 WQCC Metals + Hg (2)				
MW-13	4/27/10			X	W	V	40	1	6	X	X								
Did not						A	X(6)	1	2			X							
Sample						A	1	X	2				X						
						P	1	X	1					X					
						P	16	2	1						X				
Dup #1	4/27/10	—		X	W	V	40	1	6	X	X								
		—				A	X(6)	1	2			X							
		—				A	1	X	2				X						
		—				P	1	X	1					X					
		—				P	16	2	1						X				

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2.5 / 1.5 / 2.0

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: Johnny Tisworth	date 1100	time	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/28/10	time 9:15	6. Received by Laboratory: Amanda Vickers

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SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No.: H10040590 293775

page 5 of 5

Client Name: Tetra Tech
Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Phone/Fax: (432) 682-4559 (432) 686-8081
Client Contact: Greg Pope Email: greg.pope@tetratech.com
Project Name/No.: 114-C400484
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: BTEX 8021	GRO 8015	DRO 8015	PAH 8270	Cl 300.0	14 RCRA Metals + Mansium + Hg			
Trip Blank	4/27/10	1100			W	V	40		1									

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2.0 1.5 2.5

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: Johnny Firsworth	4/27/10	1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/28/10	time 9:15	6. Received by Laboratory: Amanda Vickerman

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Subcontract Analysis

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American Radiation Services, Inc.

Laboratory Analysis Report

ARS1-10-01020

Prepared for:

SPL

Erica Cardenas
8880 Interchange Dr.
Houston, TX 77054

ecardenas@spl-inc.com

Phone: (713) 660-0901
Fax: (713) 660-8975

Project Manager Review

Management Review

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

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

Project Manager

ProjectManagers@amrad.com

Phone: 225.381.2991
Fax: 225.381.2998

LELAP Cert# 01949 **NELAP Cert# E87558**

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ARS Sample Delivery Group:	ARS1-10-01020	**Request or PO Number:**	N/A
Client Sample ID:	SVE-1	**ARS Sample ID:**	ARS1-10-01020-001
Sample Collection Date:	04/27/10	**Date Received:**	05/05/10
Sample Matrix:	Aqueous	**Report Date:**	05/26/10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analyses Technician	Tracer/Chem Recovery
U-234	0.686	0.132	0.042	0.016		pCi/L	ARS-028/Eichrom ACW-03-15	05/24/10 16:21	JB	78%
U-235	0.009	0.018	0.033	0.011	U	pCi/L	ARS-028/Eichrom ACW-03-15	05/24/10 16:21	JB	78%
U-238	0.416	0.095	0.042	0.016		pCi/L	ARS-028/Eichrom ACW-03-15	05/24/10 16:21	JB	78%

NOTES: Work order:NM1-1/Hobbs, NM

Project Manager Review

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ARS Sample Delivery Group: ARS1-10-01020
Client Sample ID: IW-2
Sample Collection Date: 04/27/10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-10-01020-002
Date Received: 05/05/10
Report Date: 05/26/10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.168	0.057	0.041	0.015		pCi/L	ARS-026/Eichrom ACW-02-15	05/24/10 16:21	JB	73%
U-235	0.004	0.009	0.012	0.000	U	pCi/L	ARS-026/Eichrom ACW-02-15	05/24/10 16:21	JB	73%
U-238	0.080	0.040	0.041	0.015		pCi/L	ARS-026/Eichrom ACW-02-15	05/24/10 16:21	JB	73%

NOTES: Work order:NM1-1/Hobbs, NM

Project Manager Review

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ARS Sample Delivery Group: ARS1-10-01020
Client Sample ID: IW-3
Sample Collection Date: 04/27/10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-10-01020-003
Date Received: 05/05/10
Report Date: 05/26/10

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	QLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.263	0.076	0.013	0.000		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	61%
U-235	0.006	0.011	0.015	0.000	U	pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	61%
U-238	0.138	0.058	0.051	0.019		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	61%

NOTES: Work order:NM1-1/Hobbs, NM

Project Manager Review

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ARS Sample Delivery Group: ARS1-10-01020
Client Sample ID: IW-4
Sample Collection Date: 04/27/10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-10-01020-004
Date Received: 05/05/10
Report Date: 05/26/10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.842	0.159	0.048	0.018		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	67%
U-235	0.021	0.020	0.014	0.000		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	67%
U-238	0.567	0.120	0.012	0.000		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	67%

NOTES: Work order:NM1-1/Hobbs, NM

Project Manager Review

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ARS Sample Delivery Group: ARS1-10-01020
Client Sample ID: EW-5
Sample Collection Date: 04/27/10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-10-01020-005
Date Received: 05/05/10
Report Date: 05/26/10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.174	0.077	0.072	0.027		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	46%
U-235	0.023	0.026	0.021	0.000		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	46%
U-238	0.113	0.059	0.049	0.016		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	46%

NOTES: Work order:NM1-1/Hobbs, NM

Project Manager Review

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ARS Sample Delivery Group: ARS1-10-01020
Client Sample ID: TW-7
Sample Collection Date: 04/27/10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-10-01020-006
Date Received: 05/05/10
Report Date: 05/26/10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	RLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.450	0.095	0.043	0.017		pCi/L	ARS-016/Dichrom ACW-03-15	05/24/10 16:21	JB	86%
U-235	0.004	0.013	0.028	0.009	U	pCi/L	ARS-026/Dichrom ACW-03-15	05/24/10 16:21	JB	86%
U-238	0.224	0.065	0.052	0.021		pCi/L	ARS-026/Dichrom ACW-03-15	05/24/10 16:21	JB	86%

NOTES: Work order:NM1-1/Hobbs, NM

Project Manager Review

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ARS Sample Delivery Group: ARS1-10-01020
Client Sample ID: Dup #1
Sample Collection Date: 04/27/10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-10-01020-007
Date Received: 05/05/10
Report Date: 05/26/10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
U-234	0.453	0.100	0.029	0.009		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	70%
U-235	0.000	0.009	0.012	0.000	U	pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	70%
U-238	0.250	0.070	0.029	0.009		pCi/L	ARS-026/Eichrom ACW-03-15	05/24/10 16:21	JB	70%

NOTES: Work order:NM1-1/Hobbs, NM

Project Manager Review

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ARS INTERNATIONAL

QC Results per Analytical Batch

Analytical Batch	ARS1-B10-02625
SDG	ARS1-10-01020
Analysis	Uranium in Water
Analysis Test Method	ARS-026/Eichrom ACW-03-1S
Analysis Code	ASP-A-024
Report Units	pCi/L

Acceptable QC Performance Ranges

QC Sample Type	Performance Items and Ranges		
Laboratory Control Sample	Recovery (%):	> 75	< 125
Matrix Spike	Recovery (%):	> 60	< 140
Duplicate	Replicate Error Ratio (RER):		< 1
	Duplicate Error Ration (DER):		< 3
	Relative Percent Difference (RPD %):		≤ 25

Laboratory Control Sample

Analysis Date: 05/24/10 16:20 | Analysis Technician: WSTICKLE

Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (2s)	Expected Value	LCS Rec (%)	MDC
ARS1-B10-02625-01	LCS	U-238	16.7	2.0	16.8	99	0.019

Duplicate RER/DER/RPD

Analysis Date: 05/24/10 16:20 | Analysis Technician: WSTICKLE

Analyte	Result LCS	CSU LCS (2s)	Results LCSD	CSU LCSD (2s)	RER	DER	RPD
U-238	16.7	2.0	16.7	2.0	0.00	0.00	0.0

Method Blank

Analysis Date: 05/24/10 16:21 / 05/24/10 16:21 | Analysis Technician: WSTICKLE / WSTICKLE

Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (2s)	MDC	Qual
ARS1-B10-02625-03	MBL	U-234	0.025	0.023	0.035	U
ARS1-B10-02625-03	MBL	U-235	0.009	0.017	0.031	U
ARS1-B10-02625-03	MBL	U-238	0.005	0.023	0.043	U

Heather Wright

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1 (800) 401-4277 • Fax (225) 381-2996

Notes:

Comments:

1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.

Method References:

1.0) **EPA 600/4-80-032**; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
2.0) Standard Methods for Examination of Water and Waste Water, 18th, 1992.
3.0) **EPA SW-846**; Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
4.0) **EPA 600/4/79-020**; Methods for Chemical Analysis of Water and Waste, March 1983.
5.0) **HASL 300**
6.0) **ARS-040**; An LCSD is not reported with this process. The criteria for the LCS/LCSD analysis for reproducibility have not been established for Low Level Tritium analysis. A prepared standard for Low Level Tritium has not been developed. As a result, the standard we use is based on the dilution of a verified conventional tritium standard. The volume required for Low Level Tritium analysis, in addition to the lack of an available Low Level Tritium standard, introduce variability into the LCS/LCSD analysis that does not represent the actual sample analysis. The preferred measure for reproducibility is to run a duplicate analysis of a sample.

Definitions:

1.0)	**ND**	Not detected above the detection limit (non-detect).
2.0)	**MDC**	(Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis
3.0)	**MBL**	Method Blank
4.0)	**DO**	Duplicate Original
5.0)	**DUP**	Method Duplicate
6.0)	**MS/MSD**	Matrix Spike/Matrix Spike Duplicate
7.0)	**S**	Spike
8.0)	**RS**	Reference Spike
9.0)	***SC**	Subcontracted out to another qualified laboratory
10.0)	**NR**	Not Referenced
11.0)	**N/A**	Not Applicable
12.0)	******	False Positive due to interference from Bi-214
13.0)	**U**	Activity is below the MDC
14.0)	**LCS/LCSD**	Laboratory Control Standard/Laboratory Control Standard Duplicate

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Chain of Custody

Document 18198 - HBN 612804 **Workorder** NM1-1 / Hobbs, NM **Results Requested By** 5/10/2010

Report To	Subcontract To
Erica Cardenas SPL Inc. SPL Inc. 8880 Interchange Drive Houston, TX 77054 Phone (713) 660-0901 Fax (713) 660-8975	Danny Coleman American Radiation Services 2609 North River Road Port Allen, LA 70767 Phone (800) 401-4277 Fax (225) 381-2996

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: NONE	Requested Analysis	LAB USE ONLY
1	SVE-1	4/27/2010 07:55	H10040590001	Water	1		
2	IW-2	4/27/2010 08:30	H10040590002	Water	1		
3	IW-3	4/27/2010 08:50	H10040590003	Water	1		
4	IW-4	4/27/2010 09:10	H10040590004	Water	1		
5	IW-5	4/27/2010 09:45	H10040590005	Water	1		
6	IW-7	4/27/2010 10:10	H10040590006	Water	1		
7	Dup #1	4/27/2010 00:00	H10040590007	Water	1		

Report	Electronic Data Deliverables	Comments
☐ Standard (Results only)	☐ SEDD Stage 2A	Please analyze for Uranium. Please send results to Erica Cardenas at ecardenas@spl-inc.com. Please call or email with cost.
☐ Standard with Batch QC	☐ SEDD Stage 2B	
☐ CLP	☐ SEDD Stage 3	
☐ Other _____	☐ Other _____	

Preservative	Transfers	Released By	Date/Time	Received By	Date/Time
NONE = None	1		5/4/10 1454		5-5-10
	2				1040
	3				
	4				
	5				

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Certificate of Analysis

August 12, 2010

Workorder: H10070725

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

Project: COP NM1-1

Project Number: COP NM1-1 / 114-6400605

Site: Hobbs, New Mexico

PO Number: 4511063168

NELAC Cert. No.: T104704205-09-1

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.

SW8015 - Diesel Range Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: EXTO/2035. 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.

SW8021 - Purgeable Aromatics:

Your sample ID "IW-4" (SPL ID: H10070725004) was randomly selected for use in SPL's quality control program for Batch ID GCVW/1917. The Matrix Spike (MS) recovery was outside of the advisable quality control limits for Toluene and o-Xylene due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

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.

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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, Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10070725001	SVE-1	Water		7/27/2010 07:05	7/28/2010 09:00
H10070725002	IW-2	Water		7/27/2010 07:28	7/28/2010 09:00
H10070725003	IW-3	Water		7/27/2010 07:47	7/28/2010 09:00
H10070725004	IW-4	Water		7/27/2010 08:15	7/28/2010 09:00
H10070725005	IW-5	Water		7/27/2010 08:48	7/28/2010 09:00
H10070725006	IW-7	Water		7/27/2010 09:10	7/28/2010 09:00
H10070725007	MW-13	Water		7/27/2010 08:30	7/28/2010 09:00
H10070725008	Dup #1	Water		7/27/2010 08:30	7/28/2010 09:00
H10070725009	Trip Blank	Water		7/27/2010 11:00	7/28/2010 09:00

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725001** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 7/27/2010 07:05

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1395 EPA 300.0 on 07/29/2010 07:20 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	17.2		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:34 by N_M

Analytical Batches:

Batch: 1800 SW-846 8015B DRO LVI on 08/03/2010 23:09 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	0.19		0.050	0.012	1		2035	1800
n-Pentacosane (S)	185 %		10-185		1		2035	1800

VOLATILES

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

Batch: 1918 SW-846 8021B on 08/06/2010 11:35 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1918
Ethylbenzene	ND		1.0	0.22	1			1918
Toluene	ND		1.0	0.15	1			1918
m,p-Xylene	ND		1.0	0.12	1			1918
o-Xylene	ND		1.0	0.21	1			1918
Xylenes, Total	ND		1.0	0.12	1			1918
1,4-Difluorobenzene (S)	99.8 %		70-130		1			1918
4-Bromofluorobenzene (S)	101 %		70-130		1			1918
Preservation pH	<2				1			1918

Gasoline Range Organics (GRO)

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

Batch: 1920 SW-846 8015B GRO Gas on 08/06/2010 11:35 by JWS

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

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725001** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 7/27/2010 07:05

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1920
1,4-Difluorobenzene (S)	96.5 %		60-155		1			1920
4-Bromofluorobenzene (S)	98.4 %		50-158		1			1920

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725002** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 7/27/2010 07:28

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1395 EPA 300.0 on 07/29/2010 07:37 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	86.0		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:34 by N M

Analytical Batches:

Batch: 1800 SW-846 8015B DRO LVI on 08/09/2010 14:01 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	6.5		0.10	0.024	2		2035	1800
n-Pentacosane (S)	121 %		10-185		2		2035	1800

VOLATILES

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

Batch: 1918 SW-846 8021B on 08/06/2010 12:03 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1918
Ethylbenzene	ND		1.0	0.22	1			1918
Toluene	ND		1.0	0.15	1			1918
m,p-Xylene	ND		1.0	0.12	1			1918
o-Xylene	ND		1.0	0.21	1			1918
Xylenes, Total	ND		1.0	0.12	1			1918
1,4-Difluorobenzene (S)	100 %		70-130		1			1918
4-Bromofluorobenzene (S)	102 %		70-130		1			1918
Preservation pH	<2				1			1918

Gasoline Range Organics (GRO)

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

Batch: 1920 SW-846 8015B GRO Gas on 08/06/2010 12:03 by JWS

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

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725002** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 7/27/2010 07:28

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.24		0.10	0.017	1			1920
1,4-Difluorobenzene (S)	97.6 %		60-155		1			1920
4-Bromofluorobenzene (S)	111 %		50-158		1			1920

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725003** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **IW-3** Date/Time Collected: 7/27/2010 07:47

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1395 EPA 300.0 on 07/29/2010 07:54 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	46.4		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:34 by N_M

Analytical Batches:

Batch: 1800 SW-846 8015B DRO LVI on 08/04/2010 00:46 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	0.80		0.050	0.012	1		2035	1800
n-Pentacosane (S)	93.7 %		10-185		1		2035	1800

VOLATILES

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

Batch: 1930 SW-846 8021B on 08/03/2010 17:06 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1930
Ethylbenzene	ND		1.0	0.22	1			1930
Toluene	ND		1.0	0.15	1			1930
m,p-Xylene	ND		1.0	0.12	1			1930
o-Xylene	ND		1.0	0.21	1			1930
Xylenes, Total	ND		1.0	0.12	1			1930
1,4-Difluorobenzene (S)	97.5 %		70-130		1			1930
4-Bromofluorobenzene (S)	103 %		70-130		1			1930
Preservation pH	<2				1			1930

Gasoline Range Organics (GRO)

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

Batch: 1898 SW-846 8015B GRO Gas on 08/03/2010 17:06 by NNM

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

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725003** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **IW-3** Date/Time Collected: 7/27/2010 07:47

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1898
1,4-Difluorobenzene (S)	95.1 %		60-155		1			1898
4-Bromofluorobenzene (S)	101 %		50-158		1			1898

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 | Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725004** | Date/Time Received: 7/28/2010 09:00 | Matrix: Water

Sample ID: **IW-4** | Date/Time Collected: 7/27/2010 08:15

WET CHEMISTRY

Analysis Desc: EPA 300.0 | Analytical Batches:

Batch: 1395 EPA 300.0 on 07/29/2010 08:11 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	56.9		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI | Preparation Batches:

Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:35 by N_M

Analytical Batches:

Batch: 1800 SW-846 8015B DRO LVI on 08/09/2010 14:35 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	7.9		0.15	0.036	3		2035	1800
n-Pentacosane (S)	101 %		10-185		3		2035	1800

VOLATILES

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

Batch: 1918 SW-846 8021B on 08/06/2010 12:31 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1918
Ethylbenzene	ND		1.0	0.22	1			1918
Toluene	ND		1.0	0.15	1			1918
m,p-Xylene	ND		1.0	0.12	1			1918
o-Xylene	ND		1.0	0.21	1			1918
Xylenes, Total	ND		1.0	0.12	1			1918
1,4-Difluorobenzene (S)	100 %		70-130		1			1918
4-Bromofluorobenzene (S)	102 %		70-130		1			1918
Preservation pH	<2				1			1918

Gasoline Range Organics (GRO)

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

Batch: 1920 SW-846 8015B GRO Gas on 08/06/2010 12:31 by JWS

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

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725004** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **IW-4** Date/Time Collected: 7/27/2010 08:15

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1920
1,4-Difluorobenzene (S)	98 %		60-155		1			1920
4-Bromofluorobenzene (S)	97.1 %		50-158		1			1920

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 | Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725005** | Date/Time Received: 7/28/2010 09:00 | Matrix: Water

Sample ID: **IW-5** | Date/Time Collected: 7/27/2010 08:48

WET CHEMISTRY

Analysis Desc: EPA 300.0 | Analytical Batches:

Batch: 1395 EPA 300.0 on 07/29/2010 08:28 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	96.7		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI | Preparation Batches:

Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:35 by N_M

Analytical Batches:

Batch: 1800 SW-846 8015B DRO LVI on 08/04/2010 02:16 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	2.9		0.050	0.012	1		2035	1800
n-Pentacosane (S)	70.3 %		10-185		1		2035	1800

VOLATILES

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

Batch: 1918 SW-846 8021B on 08/06/2010 16:36 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1918
Ethylbenzene	ND		1.0	0.22	1			1918
Toluene	1.2		1.0	0.15	1			1918
m,p-Xylene	1.7		1.0	0.12	1			1918
o-Xylene	ND		1.0	0.21	1			1918
Xylenes, Total	1.7		1.0	0.12	1			1918
1,4-Difluorobenzene (S)	101 %		70-130		1			1918
4-Bromofluorobenzene (S)	101 %		70-130		1			1918
Preservation pH	<2				1			1918

Gasoline Range Organics (GRO)

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

Batch: 1920 SW-846 8015B GRO Gas on 08/06/2010 16:36 by JWS

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

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725005** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **IW-5** Date/Time Collected: 7/27/2010 08:48

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.34		0.10	0.017	1			1920
1,4-Difluorobenzene (S)	102 %		60-155		1			1920
4-Bromofluorobenzene (S)	103 %		50-158		1			1920

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 | Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725006** | Date/Time Received: 7/28/2010 09:00 | Matrix: Water

Sample ID: **IW-7** | Date/Time Collected: 7/27/2010 09:10

WET CHEMISTRY

Analysis Desc: EPA 300.0 | Analytical Batches:

Batch: 1395 EPA 300.0 on 07/29/2010 08:45 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	68.2		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI | Preparation Batches:

Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:35 by N_M

Analytical Batches:

Batch: 1800 SW-846 8015B DRO LVI on 08/09/2010 15:08 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	23		0.25	0.060	5		2035	1800
n-Pentacosane (S)	174 %		10-185		5		2035	1800

VOLATILES

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

Batch: 1918 SW-846 8021B on 08/06/2010 17:04 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1918
Ethylbenzene	ND		1.0	0.22	1			1918
Toluene	ND		1.0	0.15	1			1918
m,p-Xylene	ND		1.0	0.12	1			1918
o-Xylene	ND		1.0	0.21	1			1918
Xylenes, Total	ND		1.0	0.12	1			1918
1,4-Difluorobenzene (S)	100 %		70-130		1			1918
4-Bromofluorobenzene (S)	102 %		70-130		1			1918
Preservation pH	<2				1			1918

Gasoline Range Organics (GRO)

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

Batch: 1920 SW-846 8015B GRO Gas on 08/06/2010 17:04 by JWS

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

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 | Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725006** | Date/Time Received: 7/28/2010 09:00 | Matrix: Water

Sample ID: **IW-7** | Date/Time Collected: 7/27/2010 09:10

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1920
1,4-Difluorobenzene (S)	98.4 %		60-155		1			1920
4-Bromofluorobenzene (S)	100 %		50-158		1			1920

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725007** Date/Time Received: 7/28/2010 09:00 Matrix: Water
Sample ID: **MW-13** Date/Time Collected: 7/27/2010 08:30

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:
Batch: 1395 EPA 300.0 on 07/29/2010 09:36 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	149		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:35 by N_M
Analytical Batches:
Batch: 1800 SW-846 8015B DRO LVI on 08/04/2010 03:50 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	0.51		0.050	0.012	1		2035	1800
n-Pentacosane (S)	86.8 %		10-185		1		2035	1800

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 1930 SW-846 8021B on 08/04/2010 00:11 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	89		1.0	0.32	1			1930
Ethylbenzene	10		1.0	0.22	1			1930
Toluene	ND		1.0	0.15	1			1930
m,p-Xylene	4.0		1.0	0.12	1			1930
o-Xylene	1.4		1.0	0.21	1			1930
Xylenes, Total	5.4		1.0	0.12	1			1930
1,4-Difluorobenzene (S)	98 %		70-130		1			1930
4-Bromofluorobenzene (S)	106 %		70-130		1			1930
Preservation pH	<2				1			1930

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 1898 SW-846 8015B GRO Gas on 08/04/2010 00:11 by NNM

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

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725007** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **MW-13** Date/Time Collected: 7/27/2010 08:30

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.41		0.10	0.017	1			1898
1,4-Difluorobenzene (S)	96 %		60-155		1			1898
4-Bromofluorobenzene (S)	107 %		50-158		1			1898

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 | Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725008** | Date/Time Received: 7/28/2010 09:00 | Matrix: Water

Sample ID: **Dup #1** | Date/Time Collected: 7/27/2010 08:30

WET CHEMISTRY

Analysis Desc: EPA 300.0 | Analytical Batches:

Batch: 1395 EPA 300.0 on 07/29/2010 10:27 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	68.2		5.00	1.26	10			1395

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI | Preparation Batches:

Batch: 2035 SW-846 8015B DRO LVI on 07/29/2010 10:35 by N_M

Analytical Batches:

Batch: 1800 SW-846 8015B DRO LVI on 08/09/2010 15:42 by AAM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	36		0.50	0.12	10		2035	1800
n-Pentacosane (S)	253 %	MI*	10-185		10		2035	1800

VOLATILES

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

Batch: 1926 SW-846 8021B on 08/09/2010 20:56 by JWS DF = 1

Batch: 1938 SW-846 8021B on 08/10/2010 16:49 by JWS DF = 1

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1938
Ethylbenzene	ND		1.0	0.22	1			1938
Toluene	ND		1.0	0.15	1			1926
m,p-Xylene	1.2		1.0	0.12	1			1938
o-Xylene	ND		1.0	0.21	1			1926
Xylenes, Total	1.2		1.0	0.12	1			1938
1,4-Difluorobenzene (S)	100 %		70-130		1			1926
1,4-Difluorobenzene (S)	101 %		70-130		1			1938
4-Bromofluorobenzene (S)	102 %		70-130		1			1926
4-Bromofluorobenzene (S)	104 %		70-130		1			1938
Preservation pH	<2				1			1926

Gasoline Range Organics (GRO)

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725008** Date/Time Received: 7/28/2010 09:00 Matrix: Water

Sample ID: **Dup #1** Date/Time Collected: 7/27/2010 08:30

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 1936 SW-846 8015B GRO Gas on 08/10/2010 16:49 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.25		0.10	0.017	1			1936
1,4-Difluorobenzene (S)	101 %		60-155		1			1936
4-Bromofluorobenzene (S)	108 %		50-158		1			1936

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ANALYTICAL RESULTS

Workorder: H10070725 : COP NM1-1 | Project Number: COP NM1-1 / 114-6400605

Lab ID: **H10070725009** | Date/Time Received: 7/28/2010 09:00 | Matrix: Water

Sample ID: **Trip Blank** | Date/Time Collected: 7/27/2010 11:00

VOLATILES

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

Batch: 1930 SW-846 8021B on 08/03/2010 21:49 by JWS

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			1930
Ethylbenzene	ND		1.0	0.22	1			1930
Toluene	ND		1.0	0.15	1			1930
m,p-Xylene	ND		1.0	0.12	1			1930
o-Xylene	ND		1.0	0.21	1			1930
Xylenes, Total	ND		1.0	0.12	1			1930
1,4-Difluorobenzene (S)	97.6 %		70-130		1			1930
4-Bromofluorobenzene (S)	104 %		70-130		1			1930
Preservation pH	<2				1			1930

Gasoline Range Organics (GRO)

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

Batch: 1898 SW-846 8015B GRO Gas on 08/03/2010 21:49 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1898
1,4-Difluorobenzene (S)	94.9 %		60-155		1			1898
4-Bromofluorobenzene (S)	101 %		50-158		1			1898

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QUALITY CONTROL DATA

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: EXTO/2035 Analysis Method: SW-846 8015B DRO LVI

QC Batch Method: SW-846 8015B DRO LVI Preparation: 07/29/2010 10:34 by N_M

Associated Lab Samples: H10070725001 H10070725002 H10070725003 H10070725004 H10070725005 H10070725006 H10070725007 H10070725008

METHOD BLANK: 59338

Analysis Date/Time Analyst: 08/09/2010 13:28 AAM

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diesel Range Organics(C10-C28)	mg/l	ND		0.050
n-Pentacosane (S)	%	163		10-185

LABORATORY CONTROL SAMPLE & LCSD: 59339 59340

LCS Analysis Date/Time Analyst: 08/03/2010 16:02 AAM

LCSD Analysis Date/Time 08/03/2010 17:27 AAM

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Diesel Range Organics(C10-C28)	mg/l	2	3.09	3.01	154	150	21-175	2.6	43
n-Pentacosane (S)	%				169	157	10-185		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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: IC/1395 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10070710001 H10070711001 H10070712001 H10070714001 H10070715001 H10070716001
H10070717001 H10070718001 H10070719001 H10070720001 H10070721001 H10070722001
H10070723001 H10070725001 H10070725002 H10070725003 H10070725004 H10070725005
H10070725006 H10070725007 H10070725008

METHOD BLANK: 59533

Analysis Date/Time Analyst: 07/28/2010 14:15 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 59534

Analysis Date/Time Analyst: 07/28/2010 14:32 CFS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Chloride	mg/l	10	9.384	93.8	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:59537 59538 Original: H10070723001

MS Analysis Date/Time Analyst: 07/29/2010 06:46 CFS

MSD Analysis Date/Time Analyst: 07/29/2010 07:03 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	30	50	76.38	79.53	92.7	99.0	80-120	4.0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:59539 59540 Original: H10070725007

MS Analysis Date/Time Analyst: 07/29/2010 09:53 CFS

MSD Analysis Date/Time Analyst: 07/29/2010 10:10 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	149	100	248.1	237.1	99.3	88.3	80-120	4.5	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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: GCVW/1897 Analysis Method: SW-846 8015B GRO Gas
QC Batch Method: SW-846 5030 Preparation: 08/03/2010 00:00 by GCV

Associated Lab Samples: H10070725003 H10070725007 H10070725009

METHOD BLANK: 60804

Analysis Date/Time Analyst: 08/03/2010 15:41 NNM

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	99.9		50-158
1,4-Difluorobenzene (S)	%	94.9		60-155

LABORATORY CONTROL SAMPLE: 60805

Analysis Date/Time Analyst: 08/03/2010 16:37 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	0.916	91.6	70-130
4-Bromofluorobenzene (S)	%			103	50-158
1,4-Difluorobenzene (S)	%			95.3	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:60808 60809 Original: H10070767001

MS Analysis Date/Time Analyst: 08/03/2010 19:28 NNM

MSD Analysis Date/Time Analyst: 08/03/2010 19:56 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	ND	1.0	0.865	0.908	86.5	90.8	36-160	4.9	36
4-Bromofluorobenzene (S)	%	ND				103	104	50-158		30
1,4-Difluorobenzene (S)	%	ND				95.0	100	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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: GCVW/1917 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 08/06/2010 00:00 by GCV

Associated Lab Samples: H10070725001 H10070725002 H10070725004 H10070725005 H10070725006 H10070822001 H10080149008 H10080150011 H10080151007

METHOD BLANK: 61751

Analysis Date/Time Analyst: 08/06/2010 10:10 JWS

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)	%	101		70-130

LABORATORY CONTROL SAMPLE: 61752

Analysis Date/Time Analyst: 08/06/2010 10:38 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	20.9	105	70-130
Ethylbenzene	ug/l	20	19.4	97.2	70-130
Toluene	ug/l	20	20.5	103	70-130
m,p-Xylene	ug/l	40	38.6	96.5	70-130
o-Xylene	ug/l	20	19.2	96.0	70-130
Xylenes, Total	ug/l	60	57.8	96.4	70-130
1,4-Difluorobenzene (S)	%			99.0	70-130
4-Bromofluorobenzene (S)	%			102	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:61757 61758 Original: H10070725004

MS Analysis Date/Time Analyst: 08/06/2010 13:15 JWS

MSD Analysis Date/Time Analyst: 08/06/2010 13:43 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	24.7	23.5	124	118	66-141	4.9	31
Ethylbenzene	ug/l	ND	20	23.3	18.1	116	90.3	52-136	25.2	28
Toluene	ug/l	0.014	20	27.2	22.5	136 *	112	61-131	19.1	25
m,p-Xylene	ug/l	0.51	40	47.8	37.5	118	92.5	60-130	24.2	36
o-Xylene	ug/l	0.16	20	26.6	20.6	132 *	102	64-130	25.5	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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:61757 61758 Original: H10070725004

MS Analysis Date/Time Analyst: 08/06/2010 13:15 JWS

MSD Analysis Date/Time Analyst: 08/06/2010 13:43 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Xylenes, Total	ug/l	ND	60	74.4	58.1	124	96.8	60-130	24.7	36
1,4-Difluorobenzene (S)	%	100				101	100	70-130		30
4-Bromofluorobenzene (S)	%	102				130	106	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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: GCVW/1919 Analysis Method: SW-846 8015B GRO Gas

QC Batch Method: SW-846 5030 Preparation: 08/06/2010 00:00 by GCV

Associated Lab Samples: H10070725001 H10070725002 H10070725004 H10070725005 H10070725006

METHOD BLANK: 61868

Analysis Date/Time Analyst: 08/06/2010 10:10 JWS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	99.1		50-158
1,4-Difluorobenzene (S)	%	96.9		60-155

LABORATORY CONTROL SAMPLE: 61869

Analysis Date/Time Analyst: 08/06/2010 11:07 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	0.918	91.8	70-130
4-Bromofluorobenzene (S)	%			101	50-158
1,4-Difluorobenzene (S)	%			97.8	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:61870 61871 Original: H10070725002

MS Analysis Date/Time Analyst: 08/06/2010 14:11 JWS

MSD Analysis Date/Time Analyst: 08/06/2010 14:39 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	0.24	1.0	1.08	1.01	84.4	77.2	36-160	6.9	36
4-Bromofluorobenzene (S)	%	111				110	106	50-158		30
1,4-Difluorobenzene (S)	%	97.6				102	101	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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: GCVW/1929 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 08/04/2010 00:00 by GCV

Associated Lab Samples: H10070725003 H10070725007 H10070725009

METHOD BLANK: 62174

Analysis Date/Time Analyst: 08/03/2010 15:41 JWS

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)	%	97.4		70-130
4-Bromofluorobenzene (S)	%	103		70-130

LABORATORY CONTROL SAMPLE: 62175

Analysis Date/Time Analyst: 08/03/2010 16:09 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	20.6	103	70-130
Ethylbenzene	ug/l	20	19.1	95.6	70-130
Toluene	ug/l	20	20.4	102	70-130
m,p-Xylene	ug/l	40	38.2	95.5	70-130
o-Xylene	ug/l	20	19.0	94.8	70-130
Xylenes, Total	ug/l	60	57.2	95.3	70-130
1,4-Difluorobenzene (S)	%			97.7	70-130
4-Bromofluorobenzene (S)	%			105	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:62176 62177 Original: H10070725003

MS Analysis Date/Time Analyst: 08/03/2010 18:31 JWS

MSD Analysis Date/Time Analyst: 08/03/2010 18:59 JWS

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	20.4	102	102	66-141	0.5	31
Ethylbenzene	ug/l	ND	20	18.9	18.7	94.4	93.5	52-136	1.0	28
Toluene	ug/l	0.086	20	20.3	19.9	101	98.9	61-131	2.0	25
m,p-Xylene	ug/l	0.18	40	37.6	37.2	93.5	92.6	60-130	1.0	36
o-Xylene	ug/l	ND	20	18.6	18.5	93.1	92.6	64-130	0.5	30
Xylenes, Total	ug/l	ND	60	56.2	55.7	93.7	92.9	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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:62176 62177 Original: H10070725003

MS Analysis Date/Time Analyst: 08/03/2010 18:31 JWS

MSD Analysis Date/Time Analyst: 08/03/2010 18:59 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
1,4-Difluorobenzene (S)	%	97.5				97.0	96.7	70-130		30
4-Bromofluorobenzene (S)	%	103				105	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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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: GCVW/1935 Analysis Method: SW-846 8015B GRO Gas
QC Batch Method: SW-846 5030 Preparation: 08/10/2010 00:00 by NNM

Associated Lab Samples: H10070725008

METHOD BLANK: 62352

Analysis Date/Time Analyst: 08/10/2010 15:25 NNM

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	102		50-158
1,4-Difluorobenzene (S)	%	97.9		60-155

LABORATORY CONTROL SAMPLE: 62353

Analysis Date/Time Analyst: 08/10/2010 16:22 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	1.06	106	70-130
4-Bromofluorobenzene (S)	%			105	50-158
1,4-Difluorobenzene (S)	%			102	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:62354 62355 Original: H10070767005

MS Analysis Date/Time Analyst: 08/10/2010 19:14 NNM

MSD Analysis Date/Time Analyst: 08/10/2010 19:41 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	0.37	1.0	1.28	1.34	90.9	96.6	36-160	4.4	36
4-Bromofluorobenzene (S)	%	ND				109	107	50-158		30
1,4-Difluorobenzene (S)	%	ND				106	109	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: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

QC Batch: GCVW/1937 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 08/10/2010 00:00 by GCV

Associated Lab Samples: H10070725008

METHOD BLANK: 62359

Analysis Date/Time Analyst: 08/10/2010 15:25 JWS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
1,4-Difluorobenzene (S)	%	98.1		70-130
4-Bromofluorobenzene (S)	%	103		70-130

LABORATORY CONTROL SAMPLE: 62360

Analysis Date/Time Analyst: 08/10/2010 15:54 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	21.4	107	70-130
Ethylbenzene	ug/l	20	20.1	101	70-130
m,p-Xylene	ug/l	40	40.0	100	70-130
Xylenes, Total	ug/l	60	59.8	99.6	70-130
1,4-Difluorobenzene (S)	%			98.7	70-130
4-Bromofluorobenzene (S)	%			104	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:62361 62362 Original: H10070767005

MS Analysis Date/Time Analyst: 08/10/2010 18:18 JWS

MSD Analysis Date/Time Analyst: 08/10/2010 18:46 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	3.2	20	26.1	25.9	115	113	66-141	1.1	31
Ethylbenzene	ug/l	7.6	20	22.9	22.9	76.6	76.5	52-136	0.0	28
m,p-Xylene	ug/l	0.71	40	39.4	39.2	96.6	96.2	60-130	0.4	36
Xylenes, Total	ug/l	ND	60	59.6	59.3	99.3	98.9	60-130	0.4	36
1,4-Difluorobenzene (S)	%	ND				100	99.8	70-130		30
4-Bromofluorobenzene (S)	%	ND				104	105	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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Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
*	Recovery/RPD value outside QC limits
+	DCS Concentration
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
ND	Not Detected at reporting Limits
P	Pesticide dual column results, greater then 25%
Q	Received past holding time
TNTC	Too numerous to count
U	Not Detected at reporting Limits

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10070725001	SVE-1	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725002	IW-2	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725003	IW-3	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725004	IW-4	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725005	IW-5	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725006	IW-7	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725007	MW-13	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725008	Dup #1	SW-846 8015B DRO LVI	EXTO/2035	SW-846 8015B DRO LVI	GCSV/1800
H10070725001	SVE-1	EPA 300.0	IC/1395		
H10070725002	IW-2	EPA 300.0	IC/1395		
H10070725003	IW-3	EPA 300.0	IC/1395		
H10070725004	IW-4	EPA 300.0	IC/1395		
H10070725005	IW-5	EPA 300.0	IC/1395		
H10070725006	IW-7	EPA 300.0	IC/1395		
H10070725007	MW-13	EPA 300.0	IC/1395		
H10070725008	Dup #1	EPA 300.0	IC/1395		
H10070725003	IW-3	SW-846 8015B GRO Gas	GCVW/1897	SW-846 8015B GRO Gas	GCVW/1898
H10070725007	MW-13	SW-846 8015B GRO Gas	GCVW/1897	SW-846 8015B GRO Gas	GCVW/1898
H10070725009	Trip Blank	SW-846 8015B GRO Gas	GCVW/1897	SW-846 8015B GRO Gas	GCVW/1898
H10070725001	SVE-1	SW-846 5030	GCVW/1917	SW-846 8021B	GCVW/1918
H10070725002	IW-2	SW-846 5030	GCVW/1917	SW-846 8021B	GCVW/1918
H10070725004	IW-4	SW-846 5030	GCVW/1917	SW-846 8021B	GCVW/1918
H10070725005	IW-5	SW-846 5030	GCVW/1917	SW-846 8021B	GCVW/1918
H10070725006	IW-7	SW-846 5030	GCVW/1917	SW-846 8021B	GCVW/1918
H10070725001	SVE-1	SW-846 8015B GRO Gas	GCVW/1919	SW-846 8015B GRO Gas	GCVW/1920
H10070725002	IW-2	SW-846 8015B GRO Gas	GCVW/1919	SW-846 8015B GRO Gas	GCVW/1920
H10070725004	IW-4	SW-846 8015B GRO Gas	GCVW/1919	SW-846 8015B GRO Gas	GCVW/1920
H10070725005	IW-5	SW-846 8015B GRO Gas	GCVW/1919	SW-846 8015B GRO Gas	GCVW/1920

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10070725 : COP NM1-1 Project Number: COP NM1-1 / 114-6400605

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10070725006	**IW-7**	SW-846 8015B GRO Gas	GCVW/1919	SW-846 8015B GRO Gas	GCVW/1920
H10070725008	**Dup #1**	SW-846 5030	GCVW/1925	SW-846 8021B	GCVW/1926
H10070725003	**IW-3**	SW-846 5030	GCVW/1929	SW-846 8021B	GCVW/1930
H10070725007	**MW-13**	SW-846 5030	GCVW/1929	SW-846 8021B	GCVW/1930
H10070725009	**Trip Blank**	SW-846 5030	GCVW/1929	SW-846 8021B	GCVW/1930
H10070725008	**Dup #1**	SW-846 8015B GRO Gas	GCVW/1935	SW-846 8015B GRO Gas	GCVW/1936
H10070725008	**Dup #1**	SW-846 5030	GCVW/1937	SW-846 8021B	GCVW/1938

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Sample Receipt Checklist

WorkOrder:	H10070725	Received By	LOG
Date and Time	07/28/2010 09:00	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
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*)?	Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

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Phone: (713) 660-0901
Fax: (713) 660-8975

SPL, Inc.

Analysis Request & Chain of Custody Record

H10070725

289242

Page 1 of 3

Client Name: Terra Tech

Address: 1910 N Big Spring

City: Midland State: TX Zip: 79705

Phone/Fax: (432) 682-4559 FAX (432) 686-8081

Client Contact: Greg Pope Email: greg.pope@terratech.com

Project Name/No.: 114-0400605

Site Name: NM1-1

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	Chloride 300.0
SVE-1	7/27/10	0705		X	W	V	40	1	6	X	X		
						A	60	1	2			X	
						P	1LB"	X	1				X
IW-2		0728				V	40	1	6	X	X		
						A	60	1	2			X	
						P	1LB"	X	1				X
IW-3		0747				V	40	1	6	X	X		
						A	60	1	2			X	
						P	1LB"	X	1				X
IW-4		0815				V	40	1	6	X	X		

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2.5C

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: Johnny Tarin	date 7/27/10	time 1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 7/28/10	time 9:00	6. Received by Laboratory: Amanda Pinkman

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SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. H10070725 — 289243

page 2 of 3

Client Name: Trim Tak
Address: 1910 N Big Spring
City: Midland State: TX Zip: 79705
Phone/Fax: (432) 682-4559 Fax: (432) 682-8081
Client Contact: Greg Pope Email: greg.pope@trimtak.com
Project Name/No.: NM-LOG 0605
Site Name: 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	Requested Analysis: BTEX 8021	GRO 8015	DRO 8015	Chloride 300.0
IW-4	7/27/10	0815		X	W	A	60	1	2			X	
↓		↓				P	1L	X	1				X
IW-5		0845				V	40	1	6	X	X		
↓		↓				A	60	1	2			X	
↓		↓				P	1L	X	1				X
IW-7		0910				V	40	1	6	X	X		
↓		↓				A	60	1	2			X	
↓		↓				P	1L	X	1				X
MW-13		0830				V	40	1	6	X	X		
↓	↓	↓		↓	↓	A	60	1	2			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: Henry Trammell	7/27/10	1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 7/28/10	time 9:00	6. Received by Laboratory: Amanda Vickman

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Traverse City, MI 49686 (231) 947-5777

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Phone: (713) 660-0901
Fax: (713) 660-8975

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. H10070725 — 289244

page 3 of 3

Client Name: Tetra Tech

Address: 1910 N Big Spring

City Midland State TX Zip 79705

Phone/Fax: (432) 682-4559 Fax (432) 682-8081

Client Contact: Greg Pope Email: greg.pope@tetratech.com

Project Name/No.: 101-640065

Site Name: NM1-1

Site Location: Hobbs, NM

Invoice To: Lonnie 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: BTEX 8021	GRO 8015	DRO 8015	Chloride 300.0
MW-13	7/27/10	0830		X	W	P	8	X	1				X
Dup #1		—				V	40	1	6	X	X		
		—				A	60	1	2			X	
		—				P	16	X	1				X
Trip Blank		1100				V	40		2				

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2 5C

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: Johnny Farnsworth	7/27/10	1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 7/28/10	time 9:00	6. Received by Laboratory:

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Analysis Request & Chain of Custody Record

SPL Workorder No.: H10070725 | 289243 | page 2 of 3

Client Name:	Terra Tech
Address:	1910 N Big Spring
City	Midland
State	TX
Zip	79705 (TRRP)
Phone/Fax:	(432) 682-4559
Fax	(432) 682-8081
Client Contact:	Greg Pope
Email:	greg.pope@terratech.com
Project Name/No.:	111-6410605
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: BTEX 8021	GRO 8015	DRO 8015	Chloride 300.0
IW-4	7/27/10	0815		X	W	A	60	1	2			X	
↓		↓				P	16"8	X	1				X
IW-5		0848				V	40	1	6	X	X		
						A	60	1	2			X	
						P	16"8	X	1				X
IW-7		0910				V	40	1	6	X	X		
						A	60	1	2			X	
						P	8"	X	1				X
MW-13		0830				V	40	1	6	X	X		
↓	↓	↓		↓	↓	A	60	1	2			X	

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.5C

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: Johnny Tylsworth	7/27/10	1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 7/28/10	time 9:00	6. Received by Laboratory: Amanda Vickman

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SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. H10070725 — 289244

page 3 of 3

Client Name: Tetra Tech

Address: 1910 N. Big Spring

City Midland State TX Zip 79705 RED

Phone/Fax: (432) 682-4559 Fax (432) 682-8081

Client Contact: Greg Pope Email: greg.pope@tetratech.com

Project Name/No.: 114-6400605

Site Name: NM1-1

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: BTEX 8021	GRO 8015	DRO 8015	Chloride 300.0
MW-13	7/27/10	0830		X	W	P	8	X	1				X
Dup #1		—				V	40	1	6	X	X		
		—				A	60	1	2			X	
		—				P	8/16	X	1				X
Trip Blank		1100				V	40		2				

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 Tirsworth	7/27/10	1100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 7/28/10	time 9:00	6. Received by Laboratory: Amanda Vinson

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Certificate of Analysis

November 11, 2010

Workorder: H10100644

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

Project: COP Line NM 1-1

Project Number: COP Line NM 1-1 / 114-6400708

Site: Hobbs, New Mexico

PO Number: 4511063168

NELAC Cert. No.: T104704205-09-3

This Report Contains A Total Of 34 Pages

Excluding Any Attachments

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Certificate of Analysis

November 11, 2010

Workorder: H10100644

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

Project: COP Line NM 1-1

Project Number: COP Line NM 1-1 / 114-6400708

Site: Hobbs, New Mexico

PO Number: 4511063168

NELAC Cert. No.: T104704205-09-3

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.

SW8015 - Diesel Range Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: EXTO/2427. 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).

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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, Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10100644001	MW-13	Water		10/26/2010 07:50	10/27/2010 09:10
H10100644002	SVE-1	Water		10/26/2010 08:15	10/27/2010 09:10
H10100644003	IW-2	Water		10/26/2010 08:40	10/27/2010 09:10
H10100644004	Trip Blank	Water		10/26/2010 00:00	10/27/2010 09:10
H10100644005	IW3	Water		10/26/2010 08:55	10/27/2010 09:10
H10100644006	IW4	Water		10/26/2010 09:20	10/27/2010 09:10
H10100644007	IW5	Water		10/26/2010 09:40	10/27/2010 09:10
H10100644008	IW7	Water		10/26/2010 10:00	10/27/2010 09:10
H10100644009	DUP	Water		10/26/2010 00:00	10/27/2010 09:10

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644001** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **MW-13** Date/Time Collected: 10/26/2010 07:50

VOLATILES

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

Batch: 2243 SW-846 8021B on 11/03/2010 16:01 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	270		1.0	0.32	1			2243
Ethylbenzene	52		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	16		1.0	0.29	1			2243
o-Xylene	15		1.0	0.21	1			2243
Xylenes, Total	31		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	105 %		70-130		1			2243
4-Bromofluorobenzene (S)	103 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

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

Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 16:01 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.90		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	114 %		60-155		1			2241
4-Bromofluorobenzene (S)	116 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 08:47 by A_G

Analytical Batches:

Batch: 2120 SW-846 8015B DRO LVI on 11/03/2010 11:30 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	0.18		0.050	0.012	1		2427	2120
n-Pentacosane (S)	91.8 %		10-185		1		2427	2120

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644001** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **MW-13** Date/Time Collected: 10/26/2010 07:50

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 03:24 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	172		5.00	1.26	10			1525

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644002** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 10/26/2010 08:15

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2243 SW-846 8021B on 11/03/2010 11:39 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	ND		1.0	0.29	1			2243
o-Xylene	ND		1.0	0.21	1			2243
Xylenes, Total	ND		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	97.3 %		70-130		1			2243
4-Bromofluorobenzene (S)	103 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 11:39 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	103 %		60-155		1			2241
4-Bromofluorobenzene (S)	106 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 08:47 by A.G
Analytical Batches:
Batch: 2120 SW-846 8015B DRO LVI on 11/03/2010 12:07 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	ND		0.050	0.012	1		2427	2120
n-Pentacosane (S)	103 %		10-185		1		2427	2120

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644002** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 10/26/2010 08:15

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 03:41 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	63.1		5.00	1.26	10			1525

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644003** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 10/26/2010 08:40

VOLATILES

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

Batch: 2243 SW-846 8021B on 11/03/2010 12:07 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	ND		1.0	0.29	1			2243
o-Xylene	1.0		1.0	0.21	1			2243
Xylenes, Total	1		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	98.3 %		70-130		1			2243
4-Bromofluorobenzene (S)	103 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

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

Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 12:07 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	104 %		60-155		1			2241
4-Bromofluorobenzene (S)	108 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:

Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 08:47 by A_G

Analytical Batches:

Batch: 2120 SW-846 8015B DRO LVI on 11/03/2010 12:43 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	1.1		0.050	0.012	1		2427	2120
n-Pentacosane (S)	92 %		10-185		1		2427	2120

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644003** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 10/26/2010 08:40

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 03:58 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	90.1		5.00	1.26	10			1525

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644004** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **Trip Blank** Date/Time Collected: 10/26/2010 00:00

VOLATILES

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

Batch: 2243 SW-846 8021B on 11/03/2010 11:11 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	ND		1.0	0.29	1			2243
o-Xylene	ND		1.0	0.21	1			2243
Xylenes, Total	ND		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	96.5 %		70-130		1			2243
4-Bromofluorobenzene (S)	99.9 %		70-130		1			2243
Preservation pH	<2				1			2243

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644005** Date/Time Received: 10/27/2010 09:10 Matrix: Water
Sample ID: **IW3** Date/Time Collected: 10/26/2010 08:55

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2243 SW-846 8021B on 11/03/2010 16:57 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	ND		1.0	0.29	1			2243
o-Xylene	ND		1.0	0.21	1			2243
Xylenes, Total	ND		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	96.6 %		70-130		1			2243
4-Bromofluorobenzene (S)	98.1 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 16:57 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	103 %		60-155		1			2241
4-Bromofluorobenzene (S)	105 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 08:47 by A_G
Analytical Batches:
Batch: 2120 SW-846 8015B DRO LVI on 11/03/2010 13:17 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	ND		0.050	0.012	1		2427	2120
n-Pentacosane (S)	109 %		10-185		1		2427	2120

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644005** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **IW3** Date/Time Collected: 10/26/2010 08:55

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 04:15 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	90.0		5.00	1.26	10			1525

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644006** Date/Time Received: 10/27/2010 09:10 Matrix: Water
Sample ID: **IW4** Date/Time Collected: 10/26/2010 09:20

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2243 SW-846 8021B on 11/03/2010 17:25 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	ND		1.0	0.29	1			2243
o-Xylene	ND		1.0	0.21	1			2243
Xylenes, Total	ND		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	98.8 %		70-130		1			2243
4-Bromofluorobenzene (S)	101 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 17:25 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	104 %		60-155		1			2241
4-Bromofluorobenzene (S)	108 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 08:47 by A_G
Analytical Batches:
Batch: 2120 SW-846 8015B DRO LVI on 11/04/2010 04:20 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	8.2		0.25	0.060	5		2427	2120
n-Pentacosane (S)	127 %		10-185		5		2427	2120

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644006** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **IW4** Date/Time Collected: 10/26/2010 09:20

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 04:32 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	94.3		5.00	1.26	10			1525

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644007** Date/Time Received: 10/27/2010 09:10 Matrix: Water
Sample ID: **IW5** Date/Time Collected: 10/26/2010 09:40

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2243 SW-846 8021B on 11/03/2010 17:52 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	1.2		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	1.1		1.0	0.19	1			2243
m,p-Xylene	1.4		1.0	0.29	1			2243
o-Xylene	ND		1.0	0.21	1			2243
Xylenes, Total	1.4		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	98.3 %		70-130		1			2243
4-Bromofluorobenzene (S)	99 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 17:52 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.27		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	108 %		60-155		1			2241
4-Bromofluorobenzene (S)	108 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 08:47 by A_G
Analytical Batches:
Batch: 2120 SW-846 8015B DRO LVI on 11/04/2010 04:55 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	12		0.25	0.060	5		2427	2120
n-Pentacosane (S)	168 %		10-185		5		2427	2120

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644007** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **IW5** Date/Time Collected: 10/26/2010 09:40

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 04:49 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	137		5.00	1.26	10			1525

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644008** Date/Time Received: 10/27/2010 09:10 Matrix: Water
Sample ID: **IW7** Date/Time Collected: 10/26/2010 10:00

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2243 SW-846 8021B on 11/03/2010 18:20 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	ND		1.0	0.29	1			2243
o-Xylene	1.2		1.0	0.21	1			2243
Xylenes, Total	1.2		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	98.2 %		70-130		1			2243
4-Bromofluorobenzene (S)	101 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 18:20 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	104 %		60-155		1			2241
4-Bromofluorobenzene (S)	106 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 09:48 by A_G
Analytical Batches:
Batch: 2120 SW-846 8015B DRO LVI on 11/04/2010 05:30 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics(C10-C28)	6.1		0.10	0.024	2		2427	2120
n-Pentacosane (S)	180 %		10-185		2		2427	2120

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644008** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **IW7** Date/Time Collected: 10/26/2010 10:00

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 05:06 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	73.2		5.00	1.26	10			1525

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644009** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **DUP** Date/Time Collected: 10/26/2010 00:00

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2243 SW-846 8021B on 11/03/2010 18:48 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		1.0	0.32	1			2243
Ethylbenzene	ND		1.0	0.22	1			2243
Toluene	ND		1.0	0.19	1			2243
m,p-Xylene	ND		1.0	0.29	1			2243
o-Xylene	1.0		1.0	0.21	1			2243
Xylenes, Total	1		1.0	0.21	1			2243
1,4-Difluorobenzene (S)	98 %		70-130		1			2243
4-Bromofluorobenzene (S)	99.7 %		70-130		1			2243
Preservation pH	<2				1			2243

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2241 SW-846 8015B GRO Gas on 11/03/2010 18:48 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2241
1,4-Difluorobenzene (S)	104 %		60-155		1			2241
4-Bromofluorobenzene (S)	106 %		50-158		1			2241

Diesel Range Organics (DRO)

Analysis Desc: SW-846 8015B DRO LVI Preparation Batches:
Batch: 2427 SW-846 8015B DRO LVI on 10/29/2010 08:47 by A_G
Analytical Batches:
Batch: 2120 SW-846 8015B DRO LVI on 11/04/2010 03:44 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Diesel Range Organics(C10-C28)	2.3		0.050	0.012	1		2427	2120
n-Pentacosane (S)	114 %		10-185		1		2427	2120

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID: **H10100644009** Date/Time Received: 10/27/2010 09:10 Matrix: Water

Sample ID: **DUP** Date/Time Collected: 10/26/2010 00:00

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1525 EPA 300.0 on 10/30/2010 05:23 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	82.2		5.00	1.26	10			1525

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QUALITY CONTROL DATA

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

QC Batch: GCVW/2240 Analysis Method: SW-846 8015B GRO Gas

QC Batch Method: SW-846 5030 Preparation: 11/03/2010 00:00 by GCV

Associated Lab Samples: H10100644001 H10100644002 H10100644003 H10100644005 H10100644006 H10100644007 H10100644008 H10100644009

METHOD BLANK: 80196

Analysis Date/Time Analyst: 11/03/2010 09:48 NNM

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	106		50-158
1,4-Difluorobenzene (S)	%	103		60-155

LABORATORY CONTROL SAMPLE: 80197

Analysis Date/Time Analyst: 11/03/2010 10:16 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	0.944	94.4	70-130
4-Bromofluorobenzene (S)	%			110	50-158
1,4-Difluorobenzene (S)	%			111	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:80208 80209 Original: H10100644002

MS Analysis Date/Time Analyst: 11/03/2010 12:40 NNM

MSD Analysis Date/Time Analyst: 11/03/2010 13:07 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	ND	1.0	0.799	0.764	79.9	76.4	36-160	4.5	36
4-Bromofluorobenzene (S)	%	106				110	108	50-158		
1,4-Difluorobenzene (S)	%	103				109	109	60-155		

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: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

QC Batch: GCVW/2242 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 11/03/2010 00:00 by GCV

Associated Lab Samples: H10100644001 H10100644002 H10100644003 H10100644004 H10100644005 H10100644006 H10100644007 H10100644008 H10100644009

METHOD BLANK: 80233

Analysis Date/Time Analyst: 11/03/2010 09:48 NNM

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)	%	96.8		70-130
4-Bromofluorobenzene (S)	%	102		70-130

LABORATORY CONTROL SAMPLE: 80234

Analysis Date/Time Analyst: 11/03/2010 10:43 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	20.0	100	70-130
Ethylbenzene	ug/l	20	19.6	98.1	70-130
Toluene	ug/l	20	19.6	97.9	70-130
m,p-Xylene	ug/l	40	38.4	96.0	70-130
o-Xylene	ug/l	20	19.0	95.2	70-130
Xylenes, Total	ug/l	60	57.5	95.8	70-130
1,4-Difluorobenzene (S)	%			97.3	70-130
4-Bromofluorobenzene (S)	%			102	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:80235 80236 Original: H10100644002

MS Analysis Date/Time Analyst: 11/03/2010 13:35 NNM

MSD Analysis Date/Time Analyst: 11/03/2010 14:03 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	19.5	19.4	97.6	96.9	66-141	0.7	31
Ethylbenzene	ug/l	ND	20	19.3	19.2	96.6	96.0	52-136	0.6	28
Toluene	ug/l	ND	20	19.2	19.1	96.1	95.5	61-131	0.7	25
m,p-Xylene	ug/l	ND	40	37.7	37.4	94.1	93.4	60-130	0.8	36
o-Xylene	ug/l	ND	20	18.4	18.3	91.9	91.5	64-130	0.4	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: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:80235 80236 Original: H10100644002

MS Analysis Date/Time Analyst: 11/03/2010 13:35 NNM

MSD Analysis Date/Time Analyst: 11/03/2010 14:03 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Xylenes, Total	ug/l	ND	60	56.1	55.7	93.5	92.9	60-130	0.7	36
1,4-Difluorobenzene (S)	%	97.3				97.4	96.6	70-130		
4-Bromofluorobenzene (S)	%	103				100	99.3	70-130		

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: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

QC Batch: EXTO/2427 Analysis Method: SW-846 8015B DRO LVI

QC Batch Method: SW-846 8015B DRO LVI Preparation: 10/29/2010 08:48 by A_G

Associated Lab Samples: H10100644001 H10100644002 H10100644003 H10100644005 H10100644006 H10100644007 H10100644008 H10100644009

METHOD BLANK: 79058

Analysis Date/Time Analyst: 11/03/2010 21:52 NDW

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diesel Range Organics(C10-C28)	mg/l	ND		0.050
n-Pentacosane (S)	%	141		10-185

LABORATORY CONTROL SAMPLE & LCSD: 79059 79060

LCS Analysis Date/Time Analyst: 11/03/2010 22:27 NDW

LCSD Analysis Date/Time 11/03/2010 23:02 NDW

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Diesel Range Organics(C10-C28)	mg/l	2	3.06	3.0	153	150	21-175	1.9	43
n-Pentacosane (S)	%				160	153	10-185		

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: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

QC Batch: IC/1525 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10100644001 H10100644002 H10100644003 H10100644005 H10100644006 H10100644007 H10100644008 H10100644009 H10100669001 H10100687001

METHOD BLANK: 79325

Analysis Date/Time Analyst: 10/29/2010 12:08 ESK

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 79326

Analysis Date/Time Analyst: 10/29/2010 21:44 ESK

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Chloride	mg/l	10	9.672	96.7	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:79327 79328 Original: H10100669001

MS Analysis Date/Time Analyst: 10/30/2010 05:57 ESK

MSD Analysis Date/Time Analyst: 10/30/2010 06:48 ESK

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	720	1000	1789	1932	107	121 *	80-120	7.7	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
+	DCS Concentration
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
ND	Not Detected at reporting Limits
P	Pesticide dual column results, greater then 25%
Q	Received past holding time
TNTC	Too numerous to count
U	Not Detected at reporting Limits

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10100644001	**MW-13**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644002	**SVE-1**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644003	**IW-2**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644005	**IW3**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644006	**IW4**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644007	**IW5**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644008	**IW7**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644009	**DUP**	SW-846 8015B DRO LVI	EXTO/2427	SW-846 8015B DRO LVI	GCSV/2120
H10100644001	**MW-13**	EPA 300.0	IC/1525		
H10100644002	**SVE-1**	EPA 300.0	IC/1525		
H10100644003	**IW-2**	EPA 300.0	IC/1525		
H10100644005	**IW3**	EPA 300.0	IC/1525		
H10100644006	**IW4**	EPA 300.0	IC/1525		
H10100644007	**IW5**	EPA 300.0	IC/1525		
H10100644008	**IW7**	EPA 300.0	IC/1525		
H10100644009	**DUP**	EPA 300.0	IC/1525		
H10100644001	**MW-13**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644002	**SVE-1**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644003	**IW-2**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644005	**IW3**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644006	**IW4**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644007	**IW5**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644008	**IW7**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644009	**DUP**	SW-846 8015B GRO Gas	GCVW/2240	SW-846 8015B GRO Gas	GCVW/2241
H10100644001	**MW-13**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243
H10100644002	**SVE-1**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243
H10100644003	**IW-2**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243
H10100644004	**Trip Blank**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243
H10100644005	**IW3**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243
H10100644006	**IW4**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10100644 : COP Line NM 1-1 Project Number: COP Line NM 1-1 /

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10100644007	**IW5**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243
H10100644008	**IW7**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243
H10100644009	**DUP**	SW-846 5030	GCVW/2242	SW-846 8021B	GCVW/2243

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Sample Receipt Checklist

WorkOrder:	H10100644	Received By	LOG
Date and Time	10/27/2010 09:10	Carrier Name:	FEDEXS
Temperature:	2.0/2.5°C	Chilled By:	Water Ice

Airbill - Temp: 872703743273-2.5C-30lb/872703743284-2.0C-25lb/

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
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*)?	Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SPL, Inc.

Analysis Request & Chain of Custody Record

H10100644

300578

Page 1 of 4

Client Name: TETRA Tech
Address: 1910 N Big Spring
City: Midland State: Zip:
Phone/Fax: 432 686 8081
Client Contact: G. Pope Email:
Project Name/No.: 114-6400708
Site Name: Line NM 1-1
Site Location: Hobbs
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 G=glass A=amber 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: GRO 8015	DRO 8015	Cl 300
MW-13	26/10/10	750		X	W	A	X	1	2			
↓		↓				V	40	1	3			
↓		↓				P	X	X	1			
SVE-1		815				A	X	1	2			
↓		↓				V	40	1	3			
↓		↓				P	X	X	1			
IW-2		840				A	X	1	2			
IW-2	↓	840		↓	↓	V	40	1	3			
IW-2	26/10/10	840		X	W	P	X	X	1			

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.0/2.3

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: SAD	date 26/10/10	time 100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 10/27/10	time 9:10	6. Received by Laboratory: Amanda Vickrey

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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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SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No.: H10100644 | 300581

page 2 of 4

Client Name: TetraTech
Address: Midland 1910 N Big Spring
City: Midland State: Zip:
Phone/Fax: 432 686 8081
Client Contact: G Pope Email:
Project Name/No.: 114-640708
Site Name: Line NM 1-1
Site Location: Hobbs
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: 8021 BTEX
MW-13	26/10/10	750		X	W	V	40	1	3	X
SVE-1	26/10/10	815		X	W	V	40	1	3	X
MW-2	26/10/10	840		X	W	V	40	1	3	X
TRIP Blank	26/10/10				W	V	40		2	

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2.0 2.5

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: SAO	26/10/10	120	2. Received by:	
3. Relinquished by:	date	time	4. Received by:	
5. Relinquished by:	date 10/27/10	time 9:10	6. Received by Laboratory: Amanda Vickman	

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Report ID: H10100644_6159
Printed: 11/11/2010 06:35

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Analysis Request & Chain of Custody Record

SPL Workorder No: H10100644 — 300579

page 3 of 4

Client Name: TETRA Tech
Address: 1910 N Big Spring
City: Midland State: Zip:
Phone/Fax: 432 686 2081
Client Contact: G. Pope Email:
Project Name/No.: 114-6400708
Site Name: Line NM 1-1
Site Location: Hobbs
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 G=glass A=amber 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	Gro 8015	Cl 300
IW3	26/10/10	855		X	W	P	X	X					X
IW3						A	X	1			X		
IW3						V	40	1				X	
IW3						V	40	1		X			
IW4		920				P	X	X					X
IW4						A	X	1			X		
IW4						V	40	1				X	
IW4						V	40	1		X			
IW5		940		X	W	P	X	X		X			X
IW5	26/10/10	940		X	W	A	X	1			X		

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.0 | 2.5

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: SAD	26/10/10	1200	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 10/27/10	time 910	6. Received by Laboratory: Amanda Ricenan

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SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No: H10100644 | 300580 | page 4 of 4

Client Name: Tetra Tech
Address: 1910 N Big Spring
City: Midland State: Zip:
Phone/Fax: 432 686 8081
Client Contact: G Pope Email:
Project Name/No.: 114-6400708
Site Name: Line Nm 1-1
Site Location: Hobbs
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
IW-5	26/10/10	940		X	W	V	40			X			
IW 5		940				V	40				X		
IW 7		1000				V				X			
IW 7						V					X		
IW 7						A						X	
IW 7						P							P
DUP		0000				V				X			
DUP						V					X		
DUP				X	W	A						X	
DUP	26/10/10			X	W	P							P

Client/Consultant Remarks:
Laboratory remarks:
Intact? Y N
Ice? Y N
Temp: 0.1 2.4

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: SNO	26/10/10	100	2. Received by:	
3. Relinquished by:	date	time	4. Received by:	
5. Relinquished by:	date 10/27/10	time 9:10	6. Received by Laboratory: Amanda Tinsman	

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Report ID: H10100644_6159
Printed: 11/11/2010 06:35

SPL, Inc.
Analysis Request & Chain of Custody Record

H10100644

300578

Page 1 of 4

Client Name: TETRA Tech
Address: 1910 N Big Spring
City Midland State Zip REQUIRED
Phone/Fax: 432 686 8081
Client Contact: G. POPE Email:
Project Name/No.: 114-6400708
Site Name: Line NM 1-1
Site Location: HOBBS
Invoice To: Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: GRO 8015	DRO 8015	Cl 300
MW-13	26/10/10	750		X	W	A	X	1	2			
↓		↓				V	40	1	3			
↓		↓				P	X	X	1			
SVE-1		815				A	X	1	2			
↓		↓				V	40	1	3			
↓		↓				P	X	X	1			
IW-2		840				A	X	1	2			
IW-2		840		↓	↓	V	40	1	3			
IW-2	26/10/10	840		X	W	P	X	X	1			

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp 2.0/2.3

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: SAD	26/10/10	100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 10/27/10	time 9:10	6. Received by Laboratory: Amanda Vickers

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SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No.: H10100644 | 300581 | page 2 of 4

Client Name: TETRA Tech
Address: ~~Midland~~ 1910 N Big Spring
City: Midland State: Zip: REQUIRED
Phone/Fax: 432 686 8081
Client Contact: G POPE Email:
Project Name/No.: 114-6400708
Site Name: Line NM 1-1
Site Location: HOBBS
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
MW-13	26/10/10	750		X	W	V	40	1	3	X
SVE-1	26/10/10	815		X	W	V	40	1	3	X
MW-2	26/10/10	840		X	W	V	40	1	3	X
TRIP Blank	26/10/10				W	V	40		2	

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.0 | 2.5

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: SAO	26/10/10	1200	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 10/27/10	time 9:10	6. Received by Laboratory: Amanda Tickner

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☐ 459 Hughes Drive
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SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. H10100644 — 300579

page 3 of 4

Client Name: TetraTech
Address: 1910 N Big Spring
City Midland State Zip REQUIRED
Phone/Fax: 432 686 8081
Client Contact: G. Poe Email:
Project Name/No.: 114-6400708
Site Name: Line NM 1-1
Site Location: Hobbs
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	Dro 8015	Gro 8015	Cl 300
IW3	26/10/10	855		X	W	P	X	X					X
IW3						A	X	1			X		
IW 3						V	40	1				X	
IW 3						V	40	1		X			
IW 4		920				P	X	X					X
IW 4						A	X	1			X		
IW 4						V	40	1				X	
IW 4						V	40	1		X			
IW 5		940		X	W	P	X	X					X
IW 5	26/10/10	940		X	W	A	X	1			X		

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.0 | 2.5

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: SMO	26/10/10	100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 10/27/10	time 9:10	6. Received by Laboratory: Amanda Vickers

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SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. H10100644 | 300580 | page 4 of 4

Client Name: TETRA TECH
Address: 1910 N BIG SPRING
City MIDLAND State Zip REQUIRED
Phone/Fax: 432 6867081
Client Contact: G POPE Email:
Project Name/No.: 114-6400708
Site Name: LEA NM 1-1
Site Location: HOBBS
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
IW-5	26/10/10	940		X	W	V	40			X			
IW 5		940				V	40				X		
IW 7		1000				V				X			
IW 7						V					X		
IW 7						A						X	
IW 7						P							P
DUP		0000				V				X			
DUP						V					X		
DUP				X	W	A						X	
DUP	26/10/10			X	W	P							P

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 2.0 2.5

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: SMO	26/10/10	100	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 10/27/10	time 9:10	6. Received by Laboratory: Amanda Dickenson

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Scott, LA 70583 (337) 237-4775

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

SPL Inc.
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Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

February 9, 2011

Workorder: H11010387

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

Project: COP NM1-1

Project Number: COP NM1-1

Site: Hobbs, New Mexico

PO Number: 4511063168

NELAC Cert. No.: T104704205-09-3

This Report Contains A Total Of 34 Pages

Excluding Any Attachments

SPL Inc.
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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

February 9, 2011

Workorder: H11010387

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

Project: COP NM1-1

Project Number: COP NM1-1

Site: Hobbs, New Mexico

PO Number: 4511063168

NELAC Cert. No.: T104704205-09-3

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.

SW8015 - Diesel Range Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: EXTO/2649 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).

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Certificate of Analysis

February 9, 2011

Workorder: H11010387

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

Project: COP NM1-1

Project Number: COP NM1-1

Site: Hobbs, New Mexico

PO Number: 4511063168

NELAC Cert. No.: T104704205-09-3

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, Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H11010387001	SVE-1	Water		1/25/2011 08:38	1/26/2011 10:00
H11010387002	IW-2	Water		1/25/2011 05:06	1/26/2011 10:00
H11010387003	IW-3	Water		1/25/2011 09:40	1/26/2011 10:00
H11010387004	IW-4	Water		1/25/2011 09:57	1/26/2011 10:00
H11010387005	IW-5	Water		1/25/2011 10:15	1/26/2011 10:00
H11010387006	IW-7	Water		1/25/2011 10:35	1/26/2011 10:00
H11010387007	DUP	Water		1/25/2011 00:00	1/26/2011 10:00
H11010387008	Trip Blank	Water		1/25/2011 00:00	1/26/2011 10:00

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387001** Date/Time Received: 1/26/2011 10:00 Matrix: Water
Sample ID: **SVE-1** Date/Time Collected: 1/25/2011 08:38

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2412 SW-846 8021B on 01/28/2011 18:45 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		1.0	0.32	1			2412
Ethylbenzene	ND		1.0	0.22	1			2412
Toluene	ND		1.0	0.19	1			2412
m,p-Xylene	ND		1.0	0.29	1			2412
o-Xylene	ND		1.0	0.21	1			2412
Xylenes, Total	ND		1.0	0.21	1			2412
1,4-Difluorobenzene (S)	97.4 %		70-130		1			2412
4-Bromofluorobenzene (S)	96.8 %		70-130		1			2412
Preservation pH	<2				1			2412

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2416 SW-846 8015B GRO Gas on 01/28/2011 18:45 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2416
1,4-Difluorobenzene (S)	102 %		60-155		1			2416
4-Bromofluorobenzene (S)	102 %		50-158		1			2416

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B DRO Preparation Batches:
Batch: 2649 SW-846 3510C on 01/28/2011 13:08 by MB2
Analytical Batches:
Batch: 2321 SW-846 8015B DRO on 01/31/2011 12:07 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Diesel Range Organics (DRO)	ND		0.20	0.020	1		2649	2321
n-Pentacosane (S)	76.8 %		20-154		1		2649	2321

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387001** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **SVE-1** Date/Time Collected: 1/25/2011 08:38

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1627 EPA 300.0 on 01/31/2011 10:56 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	124		5.00	1.26	10			1627

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Fax: (713) 660-8975

ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387002** Date/Time Received: 1/26/2011 10:00 Matrix: Water
Sample ID: **IW-2** Date/Time Collected: 1/25/2011 05:06

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2426 SW-846 8021B on 02/02/2011 10:40 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2426
Ethylbenzene	ND		1.0	0.22	1			2426
Toluene	ND		1.0	0.19	1			2426
m,p-Xylene	ND		1.0	0.29	1			2426
o-Xylene	ND		1.0	0.21	1			2426
Xylenes, Total	ND		1.0	0.21	1			2426
1,4-Difluorobenzene (S)	99.4 %		70-130		1			2426
4-Bromofluorobenzene (S)	100 %		70-130		1			2426
Preservation pH	<2				1			2426

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2428 SW-846 8015B GRO Gas on 02/02/2011 10:40 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2428
1,4-Difluorobenzene (S)	98.8 %		60-155		1			2428
4-Bromofluorobenzene (S)	102 %		50-158		1			2428

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B DRO Preparation Batches:
Batch: 2649 SW-846 3510C on 01/28/2011 13:08 by MB2
Analytical Batches:
Batch: 2321 SW-846 8015B DRO on 01/31/2011 15:59 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics (DRO)	7.0		2.0	0.21	10		2649	2321
n-Pentacosane (S)	105 %		20-154		10		2649	2321

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387002** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **IW-2** Date/Time Collected: 1/25/2011 05:06

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1627 EPA 300.0 on 01/31/2011 11:12 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	74.5		5.00	1.26	10			1627

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387003** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **IW-3** Date/Time Collected: 1/25/2011 09:40

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2412 SW-846 8021B on 01/28/2011 19:40 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2412
Ethylbenzene	ND		1.0	0.22	1			2412
Toluene	ND		1.0	0.19	1			2412
m,p-Xylene	ND		1.0	0.29	1			2412
o-Xylene	ND		1.0	0.21	1			2412
Xylenes, Total	ND		1.0	0.21	1			2412
1,4-Difluorobenzene (S)	97.7 %		70-130		1			2412
4-Bromofluorobenzene (S)	97.4 %		70-130		1			2412
Preservation pH	<2				1			2412

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2416 SW-846 8015B GRO Gas on 01/28/2011 19:40 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2416
1,4-Difluorobenzene (S)	101 %		60-155		1			2416
4-Bromofluorobenzene (S)	101 %		50-158		1			2416

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B DRO Preparation Batches:
Batch: 2649 SW-846 3510C on 01/28/2011 13:08 by MB2
Analytical Batches:
Batch: 2321 SW-846 8015B DRO on 02/01/2011 11:09 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics (DRO)	0.86		0.20	0.021	1		2649	2321
n-Pentacosane (S)	83.6 %		20-154		1		2649	2321

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 | Project Number: COP NM1-1

Lab ID: **H11010387003** | Date/Time Received: 1/26/2011 10:00 | Matrix: Water

Sample ID: **IW-3** | Date/Time Collected: 1/25/2011 09:40

Analysis Desc: EPA 300.0 | Analytical Batches: Batch: 1627 EPA 300.0 on 01/31/2011 12:01 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	75.9		5.00	1.26	10			1627

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387004** Date/Time Received: 1/26/2011 10:00 Matrix: Water
Sample ID: **IW-4** Date/Time Collected: 1/25/2011 09:57

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2426 SW-846 8021B on 02/02/2011 11:07 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2426
Ethylbenzene	ND		1.0	0.22	1			2426
Toluene	ND		1.0	0.19	1			2426
m,p-Xylene	ND		1.0	0.29	1			2426
o-Xylene	ND		1.0	0.21	1			2426
Xylenes, Total	ND		1.0	0.21	1			2426
1,4-Difluorobenzene (S)	99.2 %		70-130		1			2426
4-Bromofluorobenzene (S)	99.1 %		70-130		1			2426
Preservation pH	<2				1			2426

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2428 SW-846 8015B GRO Gas on 02/02/2011 11:07 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2428
1,4-Difluorobenzene (S)	99.5 %		60-155		1			2428
4-Bromofluorobenzene (S)	102 %		50-158		1			2428

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B DRO Preparation Batches:
Batch: 2649 SW-846 3510C on 01/28/2011 13:08 by MB2
Analytical Batches:
Batch: 2321 SW-846 8015B DRO on 01/31/2011 16:40 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics (DRO)	79		4.0	0.41	20		2649	2321
n-Pentacosane (S)	0 %	D*	20-154		20		2649	2321

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387004** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **IW-4** Date/Time Collected: 1/25/2011 09:57

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1627 EPA 300.0 on 01/31/2011 12:17 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	81.8		5.00	1.26	10			1627

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387005** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **IW-5** Date/Time Collected: 1/25/2011 10:15

VOLATILES

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

Batch: 2426 SW-846 8021B on 02/02/2011 11:35 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2426
Ethylbenzene	ND		1.0	0.22	1			2426
Toluene	1.3		1.0	0.19	1			2426
m,p-Xylene	1.5		1.0	0.29	1			2426
o-Xylene	ND		1.0	0.21	1			2426
Xylenes, Total	1.5		1.0	0.21	1			2426
1,4-Difluorobenzene (S)	99.3 %		70-130		1			2426
4-Bromofluorobenzene (S)	98 %		70-130		1			2426
Preservation pH	<2				1			2426

Gasoline Range Organics (GRO)

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

Batch: 2428 SW-846 8015B GRO Gas on 02/02/2011 11:35 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.38		0.10	0.017	1			2428
1,4-Difluorobenzene (S)	104 %		60-155		1			2428
4-Bromofluorobenzene (S)	104 %		50-158		1			2428

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B DRO Preparation Batches:

Batch: 2649 SW-846 3510C on 01/28/2011 13:08 by MB2

Analytical Batches:

Batch: 2321 SW-846 8015B DRO on 01/31/2011 17:00 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics (DRO)	22		2.2	0.22	10		2649	2321
n-Pentacosane (S)	79.8 %		20-154		10		2649	2321

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 | Project Number: COP NM1-1

Lab ID: **H11010387005** | Date/Time Received: 1/26/2011 10:00 | Matrix: Water

Sample ID: **IW-5** | Date/Time Collected: 1/25/2011 10:15

Analysis Desc: EPA 300.0 | Analytical Batches:

Batch: 1627 EPA 300.0 on 01/31/2011 12:33 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	147		5.00	1.26	10			1627

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387006** Date/Time Received: 1/26/2011 10:00 Matrix: Water
Sample ID: **IW-7** Date/Time Collected: 1/25/2011 10:35

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2426 SW-846 8021B on 02/02/2011 12:02 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2426
Ethylbenzene	ND		1.0	0.22	1			2426
Toluene	ND		1.0	0.19	1			2426
m,p-Xylene	ND		1.0	0.29	1			2426
o-Xylene	ND		1.0	0.21	1			2426
Xylenes, Total	ND		1.0	0.21	1			2426
1,4-Difluorobenzene (S)	98.8 %		70-130		1			2426
4-Bromofluorobenzene (S)	98.3 %		70-130		1			2426
Preservation pH	<2				1			2426

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2428 SW-846 8015B GRO Gas on 02/02/2011 12:02 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2428
1,4-Difluorobenzene (S)	100 %		60-155		1			2428
4-Bromofluorobenzene (S)	101 %		50-158		1			2428

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B DRO Preparation Batches:
Batch: 2649 SW-846 3510C on 01/28/2011 13:08 by MB2
Analytical Batches:
Batch: 2321 SW-846 8015B DRO on 01/31/2011 17:20 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics (DRO)	20		2.0	0.21	10		2649	2321
n-Pentacosane (S)	104 %		20-154		10		2649	2321

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387006** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **IW-7** Date/Time Collected: 1/25/2011 10:35

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1627 EPA 300.0 on 01/31/2011 12:49 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	61.8		5.00	1.26	10			1627

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387007** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **DUP** Date/Time Collected: 1/25/2011 00:00

VOLATILES

Analysis Desc: SW-846 8021B SW-846 5030Analytical Batches:
Batch: 2426 SW-846 8021B on 02/02/2011 12:30 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2426
Ethylbenzene	ND		1.0	0.22	1			2426
Toluene	ND		1.0	0.19	1			2426
m,p-Xylene	ND		1.0	0.29	1			2426
o-Xylene	ND		1.0	0.21	1			2426
Xylenes, Total	ND		1.0	0.21	1			2426
1,4-Difluorobenzene (S)	98.8 %		70-130		1			2426
4-Bromofluorobenzene (S)	98.9 %		70-130		1			2426
Preservation pH	<2				1			2426

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas SW-846 8015B GRO GasAnalytical Batches:
Batch: 2428 SW-846 8015B GRO Gas on 02/02/2011 12:30 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	0.10		0.10	0.017	1			2428
1,4-Difluorobenzene (S)	100 %		60-155		1			2428
4-Bromofluorobenzene (S)	102 %		50-158		1			2428

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B DRO Preparation Batches:
Batch: 2649 SW-846 3510C on 01/28/2011 13:08 by MB2
Analytical Batches:
Batch: 2321 SW-846 8015B DRO on 01/31/2011 17:40 by NDW

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Diesel Range Organics (DRO)	17		2.1	0.21	10		2649	2321
n-Pentacosane (S)	97.4 %		20-154		10		2649	2321

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387007** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **DUP** Date/Time Collected: 1/25/2011 00:00

Analysis Desc: EPA 300.0 Analytical Batches:

Batch: 1627 EPA 300.0 on 01/31/2011 13:05 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	62.8		5.00	1.26	10			1627

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ANALYTICAL RESULTS

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID: **H11010387008** Date/Time Received: 1/26/2011 10:00 Matrix: Water

Sample ID: **Trip Blank** Date/Time Collected: 1/25/2011 00:00

VOLATILES

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

Batch: 2412 SW-846 8021B on 01/28/2011 14:36 by NNM

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.32	1			2412
Ethylbenzene	ND		1.0	0.22	1			2412
Toluene	ND		1.0	0.19	1			2412
m,p-Xylene	ND		1.0	0.29	1			2412
o-Xylene	ND		1.0	0.21	1			2412
Xylenes, Total	ND		1.0	0.21	1			2412
1,4-Difluorobenzene (S)	98.2 %		70-130		1			2412
4-Bromofluorobenzene (S)	97.1 %		70-130		1			2412
Preservation pH	<2				1			2412

Gasoline Range Organics (GRO)

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

Batch: 2416 SW-846 8015B GRO Gas on 01/28/2011 14:36 by NNM

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			2416
1,4-Difluorobenzene (S)	99.9 %		60-155		1			2416
4-Bromofluorobenzene (S)	99.5 %		50-158		1			2416

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QUALITY CONTROL DATA

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

QC Batch: GCVW/2411 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 01/28/2011 00:00 by GCV

Associated Lab Samples: H11010387001 H11010387003 H11010387008

METHOD BLANK: 91719

Analysis Date/Time Analyst: 01/28/2011 12:37 NNM

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)	%	98.3		70-130
4-Bromofluorobenzene (S)	%	98.2		70-130

LABORATORY CONTROL SAMPLE: 91720

Analysis Date/Time Analyst: 01/28/2011 13:33 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	19.2	95.9	70-130
Ethylbenzene	ug/l	20	18.8	94.0	70-130
Toluene	ug/l	20	19.2	96.1	70-130
m,p-Xylene	ug/l	40	37.6	94.1	70-130
o-Xylene	ug/l	20	19.0	94.9	70-130
Xylenes, Total	ug/l	60	56.6	94.4	70-130
1,4-Difluorobenzene (S)	%			97.6	70-130
4-Bromofluorobenzene (S)	%			98.3	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:91736 91737 Original: H11010438001

MS Analysis Date/Time Analyst: 01/28/2011 15:31 NNM

MSD Analysis Date/Time Analyst: 01/28/2011 15:59 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	19.1	18.6	95.4	93.1	66-141	2.5	31
Ethylbenzene	ug/l	ND	20	19.1	18.6	95.4	93.0	52-136	2.5	28
Toluene	ug/l	ND	20	19.1	18.7	95.6	93.6	61-131	2.1	25
m,p-Xylene	ug/l	ND	40	38.0	37.1	95.0	92.7	60-130	2.5	36
o-Xylene	ug/l	ND	20	19.0	18.2	94.9	91.2	64-130	4.0	30
Xylenes, Total	ug/l	ND	60	57.0	55.3	95.0	92.2	60-130	3.0	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: H11010387 : COP NM1-1 Project Number: COP NM1-1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:91736 91737 Original: H11010438001

MS Analysis Date/Time Analyst: 01/28/2011 15:31 NNM

MSD Analysis Date/Time Analyst: 01/28/2011 15:59 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
1,4-Difluorobenzene (S)	%	ND				97.5	98.0	70-130		
4-Bromofluorobenzene (S)	%	ND				97.8	98.1	70-130		

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: H11010387 : COP NM1-1 Project Number: COP NM1-1

QC Batch: GCVW/2415 Analysis Method: SW-846 8015B GRO Gas
QC Batch Method: SW-846 5030 Preparation: 01/28/2011 00:00 by GCV
Associated Lab Samples: H11010387001 H11010387003 H11010387008

METHOD BLANK: 91765
Analysis Date/Time Analyst: 01/28/2011 12:37 NNM

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	100		50-158
1,4-Difluorobenzene (S)	%	100		60-155

LABORATORY CONTROL SAMPLE: 91766
Analysis Date/Time Analyst: 01/28/2011 13:05 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	1.02	102	70-130
4-Bromofluorobenzene (S)	%			103	50-158
1,4-Difluorobenzene (S)	%			105	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:91770 91771 Original: H11020003001

MS Analysis Date/Time Analyst: 01/28/2011 17:50 NNM
MSD Analysis Date/Time Analyst: 01/28/2011 18:17 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	ND	1.0	1.05	1.05	104	104	36-160	0.1	36
4-Bromofluorobenzene (S)	%	ND				103	104	50-158		
1,4-Difluorobenzene (S)	%	ND				105	107	60-155		

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: H11010387 : COP NM1-1 Project Number: COP NM1-1

QC Batch: GCVW/2425 Analysis Method: SW-846 8021B

QC Batch Method: SW-846 5030 Preparation: 02/02/2011 00:00 by GCV

Associated Lab Samples: H11010387002 H11010387004 H11010387005 H11010387006 H11010387007 H11010414015 H11010414018

METHOD BLANK: 92062

Analysis Date/Time Analyst: 02/02/2011 04:16 NNM

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)	%	96.8		70-130
4-Bromofluorobenzene (S)	%	96.6		70-130

LABORATORY CONTROL SAMPLE: 92063

Analysis Date/Time Analyst: 02/02/2011 05:11 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	19.2	96.0	70-130
Ethylbenzene	ug/l	20	19.1	95.6	70-130
Toluene	ug/l	20	19.4	97.2	70-130
m,p-Xylene	ug/l	40	38.2	95.5	70-130
o-Xylene	ug/l	20	19.2	96.0	70-130
Xylenes, Total	ug/l	60	57.4	95.7	70-130
1,4-Difluorobenzene (S)	%			96.6	70-130
4-Bromofluorobenzene (S)	%			97.0	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:92064 92065 Original: H11010414015

MS Analysis Date/Time Analyst: 02/02/2011 06:05 NNM

MSD Analysis Date/Time Analyst: 02/02/2011 06:33 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	20.2	20.5	101	102	66-141	1.2	31
Ethylbenzene	ug/l	ND	20	19.4	19.7	97.0	98.3	52-136	1.3	28
Toluene	ug/l	ND	20	19.7	19.8	98.6	98.9	61-131	0.3	25
m,p-Xylene	ug/l	ND	40	39.2	39.2	98.0	98.1	60-130	0.1	36
o-Xylene	ug/l	ND	20	19.7	19.6	98.5	98.0	64-130	0.5	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.

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:92064 92065 Original: H11010414015

MS Analysis Date/Time Analyst: 02/02/2011 06:05 NNM

MSD Analysis Date/Time Analyst: 02/02/2011 06:33 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Xylenes, Total	ug/l	ND	60	58.9	58.8	98.2	98.1	60-130	0.1	36
1,4-Difluorobenzene (S)	%	99.1				98.5	98.7	70-130		
4-Bromofluorobenzene (S)	%	96				96.9	97.1	70-130		

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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Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

QC Batch: GCVW/2427 Analysis Method: SW-846 8015B GRO Gas

QC Batch Method: SW-846 5030 Preparation: 02/02/2011 00:00 by GCV

Associated Lab Samples: H11010387002 H11010387004 H11010387005 H11010387006 H11010387007 H11010414001 H11010414002 H11010414003 H11010414015 H11010414018

METHOD BLANK: 92066

Analysis Date/Time Analyst: 02/02/2011 04:16 NNM

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	98.1		50-158
1,4-Difluorobenzene (S)	%	98.3		60-155

LABORATORY CONTROL SAMPLE: 92067

Analysis Date/Time Analyst: 02/02/2011 04:43 NNM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	0.901	90.1	70-130
4-Bromofluorobenzene (S)	%			99.7	50-158
1,4-Difluorobenzene (S)	%			102	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:92068 92069 Original: H11010414001

MS Analysis Date/Time Analyst: 02/02/2011 07:28 NNM

MSD Analysis Date/Time Analyst: 02/02/2011 07:55 NNM

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	ND	1.0	0.967	0.839	96.7	83.9	36-160	14.2	36
4-Bromofluorobenzene (S)	%	97.3				102	101	50-158		
1,4-Difluorobenzene (S)	%	97.3				103	100	60-155		

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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Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

QC Batch: EXTO/2649 Analysis Method: SW-846 8015B DRO

QC Batch Method: SW-846 3510C Preparation: 01/28/2011 13:07 by MB2

Associated Lab Samples: H11010387001 H11010387002 H11010387003 H11010387004 H11010387005 H11010387006 H11010387007 H11010414001 H11010414002 H11010414003 H11010414004 H11010414005 H11010414006 H11010414007

METHOD BLANK: 91510

Analysis Date/Time Analyst: 01/31/2011 11:47 NDW

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diesel Range Organics (DRO)	mg/l	ND		0.20
n-Pentacosane (S)	%	93.5		20-154

LABORATORY CONTROL SAMPLE & LCSD: 91511 91512

LCS Analysis Date/Time Analyst: 01/31/2011 11:05 NDW

LCSD Analysis Date/Time 01/31/2011 11:26 NDW

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Diesel Range Organics (DRO)	mg/l	1.0	1.02	1.0	102	100	21-150	1.4	40
n-Pentacosane (S)	%				93.3	91.9	20-154		

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: H11010387 : COP NM1-1 Project Number: COP NM1-1

QC Batch: IC/1627 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H11010387001 H11010387002 H11010387003 H11010387004 H11010387005 H11010387006 H11010387007 H11010414001 H11010414002 H11010414003 H11010414004 H11010414005 H11010414006 H11010414007 H11010414008 H11010414009 H11010414010 H11010414011 H11010414012 H11010414013

METHOD BLANK: 91899

Analysis Date/Time Analyst: 01/31/2011 09:51 ESK

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 91900

Analysis Date/Time Analyst: 01/31/2011 10:07 ESK

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Chloride	mg/l	10	9.346	93.5	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:91901 91902 Original: H11010387002

MS Analysis Date/Time Analyst: 01/31/2011 11:28 ESK

MSD Analysis Date/Time Analyst: 01/31/2011 11:44 ESK

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	74.5	50	134.3	125.5	120	102	80-120	6.8	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:91903 91904 Original: H11010414004

MS Analysis Date/Time Analyst: 01/31/2011 14:58 ESK

MSD Analysis Date/Time Analyst: 01/31/2011 15:14 ESK

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	132	50	194.4	194.2	125 *	124 *	80-120	0.1	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
+	DCS Concentration
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
ND	Not Detected at reporting Limits
P	Pesticide dual column results, greater then 25%
Q	Received past holding time
TNTC	Too numerous to count
U	Not Detected at reporting Limits

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H11010387001	SVE-1	SW-846 3510C	EXTO/2649	SW-846 8015B DRO	GCSV/2321
H11010387002	IW-2	SW-846 3510C	EXTO/2649	SW-846 8015B DRO	GCSV/2321
H11010387003	IW-3	SW-846 3510C	EXTO/2649	SW-846 8015B DRO	GCSV/2321
H11010387004	IW-4	SW-846 3510C	EXTO/2649	SW-846 8015B DRO	GCSV/2321
H11010387005	IW-5	SW-846 3510C	EXTO/2649	SW-846 8015B DRO	GCSV/2321
H11010387006	IW-7	SW-846 3510C	EXTO/2649	SW-846 8015B DRO	GCSV/2321
H11010387007	DUP	SW-846 3510C	EXTO/2649	SW-846 8015B DRO	GCSV/2321
H11010387001	SVE-1	SW-846 5030	GCVW/2411	SW-846 8021B	GCVW/2412
H11010387003	IW-3	SW-846 5030	GCVW/2411	SW-846 8021B	GCVW/2412
H11010387008	Trip Blank	SW-846 5030	GCVW/2411	SW-846 8021B	GCVW/2412
H11010387001	SVE-1	SW-846 8015B GRO Gas	GCVW/2415	SW-846 8015B GRO Gas	GCVW/2416
H11010387003	IW-3	SW-846 8015B GRO Gas	GCVW/2415	SW-846 8015B GRO Gas	GCVW/2416
H11010387008	Trip Blank	SW-846 8015B GRO Gas	GCVW/2415	SW-846 8015B GRO Gas	GCVW/2416
H11010387001	SVE-1	EPA 300.0	IC/1627		
H11010387002	IW-2	EPA 300.0	IC/1627		
H11010387003	IW-3	EPA 300.0	IC/1627		
H11010387004	IW-4	EPA 300.0	IC/1627		
H11010387005	IW-5	EPA 300.0	IC/1627		
H11010387006	IW-7	EPA 300.0	IC/1627		
H11010387007	DUP	EPA 300.0	IC/1627		
H11010387002	IW-2	SW-846 5030	GCVW/2425	SW-846 8021B	GCVW/2426
H11010387004	IW-4	SW-846 5030	GCVW/2425	SW-846 8021B	GCVW/2426
H11010387005	IW-5	SW-846 5030	GCVW/2425	SW-846 8021B	GCVW/2426
H11010387006	IW-7	SW-846 5030	GCVW/2425	SW-846 8021B	GCVW/2426
H11010387007	DUP	SW-846 5030	GCVW/2425	SW-846 8021B	GCVW/2426
H11010387002	IW-2	SW-846 8015B GRO Gas	GCVW/2427	SW-846 8015B GRO Gas	GCVW/2428
H11010387004	IW-4	SW-846 8015B GRO Gas	GCVW/2427	SW-846 8015B GRO Gas	GCVW/2428
H11010387005	IW-5	SW-846 8015B GRO Gas	GCVW/2427	SW-846 8015B GRO Gas	GCVW/2428
H11010387006	IW-7	SW-846 8015B GRO Gas	GCVW/2427	SW-846 8015B GRO Gas	GCVW/2428

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H11010387 : COP NM1-1 Project Number: COP NM1-1

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H11010387007	**DUP**	SW-846 8015B GRO Gas	GCVW/2427	SW-846 8015B GRO Gas	GCVW/2428

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Sample Receipt Checklist

WorkOrder:	H11010387	Received By	LOG
Date and Time	01/26/2011 10:00	Carrier Name:	FEDEXS
Temperature:	1.0/1.0/2.0/2.0°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
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.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 306101

H11010387

Page 1 of 3

Client Name:	Terra Tech
Address:	1910 N Big Spring
City	Midland State TX Zip 79705
Phone/Fax:	(432) 682-4559
Client Contact:	Greg Pope Email:
Project Name/No.:	114-0400786
Site Name:	Lea NM 1-1
Site Location:	Hobbs, NM
Invoice To:	Ph:

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic G=glass A=amber glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	(1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	BTEX - 8021	TPH - DRO ext's	TPH - DRO ext's	Chlorides					
SVE-1	11/25/11	0858		X	W	V	40	1	6	3	3							
						A	1	1	2			2						
						P	16	—	1				1					
IW-2		0906				V	40	1	6	3	3							
						A	1	1	2			2						
						P	16	—	1				1					
IW-3		0940				V	40	1	6	3	3							
						A	1	1	2			2						
						P	16	—	1				1					
IW-4		0957				V	40	1	6	3	3							

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.0 / 1.0 °C

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: Johnny Trussworth	date 11/25/11	time 1130	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 11/28/11	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.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 306099

H11010387

page 2 of 3

Client Name: Trinity Tech
Address: 1910 N Big Spring
City Midland State TX Zip 79705
Phone/Fax: (432) 682-4559
Client Contact: Greg Pope Email:
Project Name/No.: 114-640 078L
Site Name: Linn NM 1-1
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	TPH - GRO Ext	TPH - DRO Ext	Chlorides
IW-4	0957	1/25/11		X	W	A	1	1	2			2	
↓	↓					P	16	—	1				1
IW-5	1015					V	40	1	6	3	3		
↓	↓					A	1	1	2			2	
↓	↓					P	16	—	1				1
IW-7	1035					V	40	1	6	3	3		
↓	↓					A	1	1	2			2	
↓	↓					P	16	—	1				1
Dup	—					V	40	1	6	3	3		
↓	—	↓		↓	↓	A	1	1	2			2	1

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.0 / 1.3

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: Johnny Tidwell	1/25/11	1130	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 1/26/11	time 1000	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

Report ID: H11010387_6159
Printed: 02/09/2011 17:35

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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 306100
H11010387
page 3 of 3

Client Name: Petra Tech
Address: 1910 N Big Spring
City Midland State TX Zip 79705
Phone/Fax: (432) 682-4559
Client Contact: Greg Pope Email:
Project Name/No.: 114-40078
Site Name: Line NM 1-1
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	TPH - GRO Bens	TPH - DRO Bens	Chlorides
Dup	1/25/11	—		X	W	P	16	1	1				X
Trip Blank	"			X	W	V	40		1				

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.0 1.0

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: Johnny Haworth	1/25/11	1130	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 1/26/11	time 1000	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

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 306100

H11010387 page 3 of 3

Client Name: Tetra Tech
Address: 1910 N Big Spring
City Midland State TX Zip 79705 TRRP
Phone/Fax: (432) 682-4559
Client Contact: Greg Pope Email:
Project Name/No.: 114-4400786
Site Name: Line NM 1-1
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	TPH - GRO 8015	TPH - DRO 8015	Chlorides
Dup	1/25/11	—		X	W	P	16	—	1				*
Trip Blank	↓			X	W	V	40		1				

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 1.0 1.0

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): S

	date	time	
1. Relinquished by Sampler: Johnny Tidwell	1/25/11	1130	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 1/26/11	time 1000	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. 306101

H11010387

Page 1 of 3

Client Name:	Terra Tech
Address:	1910 N Big Spring
City	Midland State TX Zip 79705 TRRP
Phone/Fax:	(432) 682-4559
Client Contact:	Greg Pope Email:
Project Name/No.:	114-0400786
Site Name:	Cline NM 1-1
Site Location:	Hobbs, NM
Invoice To:	Ph:

Requested Analysis

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)	1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	BTEX - 8021	TPH - GRO 8015	TPH - DRO 8015	Chlorides
SVE-1	1/25/11	0838		X	W	V	40	1	6	3	3		
						A	1	1	2			2	
						P	16	—	1				1
IW-2		0906				V	40	1	6	3	3		
						A	1	1	2			2	
						P	16	—	1				1
IW-3		0940				V	40	1	6	3	3		
						A	1	1	2			2	
						P	16	—	1				1
IW-4		0957				V	40	1	6	3	3		

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N

Ice? ☐ Y ☐ N

Temp: 1.0/1.0°

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): S

1. Relinquished by Sampler: Johnny Tinsworth	date 1/25/11	time 1130	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 1/26/11	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. 306099

1H1101087

page 2 of 3

Client Name: Tetra Tech

Address: 1910 N Big Spring

City Midland State TX Zip 79705 RECEIVED

Phone/Fax: (432) 682-4559

Client Contact: Greg Pope Email:

Project Name/No.: 114-6410 0786

Site Name: Cline NM 1-1

Site Location: Hobbs, NM

Invoice To: Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: BTEX - 8021	TPH - GRO 8015	TPH - DRO 8015	Chlorides
IW-4	0957	1/25/11		X	W	A	1	1	2			2	
↓	↓	↓		↓	↓	P	16	—	1				1
IW-5	1015					V	40	1	6	3	3		
↓	↓					A	1	1	2			2	
↓	↓					P	16	—	1				1
IW-7	1035					V	40	1	6	3	3		
↓	↓					A	1	1	2			2	
↓	↓					P	16	—	1				1
Dup	—					V	40	1	6	3	3		
↓	—	↓		↓	↓	A	1	1	2			2	1

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N

Ice? ☐ Y ☐ N

Temp: 1.0 / 1.0

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 1/25/11	time 1130	2. Received by:	
3. Relinquished by:	date	time	4. Received by:	
5. Relinquished by:	date 1/26/11	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. 306100

H11010387

page 3 of 3

Client Name: Tetra Tech

Address: 1910 N Big Spring

City Midland State TX Zip 79705 TRRP

Phone/Fax: (432) 682-4559

Client Contact: Greg Pope Email:

Project Name/No.: 114-G00786

Site Name: Line NM 1-1

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	TPH - GRO 8015	TPH - DRO 8015	Chlorides
Dup	1/25/11	—		X	W	P	16	—	1				*
Trip Blank	"			X	W	V	40		1				

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N

Ice? Y N

Temp: 1.0 1.0

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): S

	date	time	
1. Relinquished by Sampler: Johnny Tidwell	1/25/11	1130	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 1/26/11	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 D
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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
APR 20 2010
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Form C-117 A
Revised June 10, 2003

Submit 5 Copies to
Appropriate District Office

PERMIT NO. H-32977

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 April 20, 2010

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 80 Bbls. Field test volume of good oil _____ Bbls.
(Not required prior to Division approval)

Destination (Name and Location of treating plant or other facility) Sundance Services, Eunice, NM

DESTRUCTION OF SEDIMENT OIL BY: ☐ Burning ☐ Pit Disposal ☐ Use on Roads or firewalls ☐ Other

(Explain) _____

Location of Destruction _____

Justification of Destruction _____

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Owner 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 April 16, 2010	Title Dispatcher	Date April 16, 2010

OIL CONSERVATION DIVISION

Approved By Patricia Martz Title Ex. Secretary Date 4-16-2010

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
AUG 13 2010
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-33153

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 August 16, 2010

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 60 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 August 12, 2010	Title Dispatcher — Date August 12, 2010

OIL CONSERVATION DIVISION

Approved By _____ Title Env. Secretary Date 8-16-2010

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
NOV 05 2010
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-33215

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 November 1, 2010

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 60 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 October 28, 2010	Title Dispatcher — Date October 28, 2010

OIL CONSERVATION DIVISION

Approved By Patricia Martin Title Env. Secretary Date 11-5-2010

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)