

3R-069

**QTR GW annual monitoring
report**

**DATE:
October 2009**



TETRA TECH, INC.

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Albuquerque, NM 87110
(505) 237-8440

March 16, 2010

Mr. Glen von Gonten
State of New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

RE: (1) ConocoPhillips Company San Juan 27-5 #34-A Site, Rio Arriba County, New Mexico.
September 2009 Quarterly Groundwater Monitoring Report
(2) ConocoPhillips Company Hampton 4M Site, Aztec, New Mexico. 2009 Annual
Groundwater Monitoring Report

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Dear Mr. von Gonten:

Enclosed please find one (1) copy of each of the above-referenced documents as compiled by Tetra Tech, Inc. for these Farmington area sites.

Please do not hesitate to contact me at (505) 237-8440 if you have any questions or require additional information.

Sincerely,

Kelly E. Blanchard
Project Manager/Geologist

Enclosures (2)

2009 ANNUAL GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS COMPANY HAMPTON 4M AZTEC, NEW MEXICO

OCD # 3RP-69-0
API # 30-045-25810

Prepared for:



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Bartlesville, OK 74004

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October 2009

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ANNUAL GROUNDWATER MONITORING REPORT HAMPTON 4M, AZTEC, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of the 2009 annual groundwater monitoring event conducted by Tetra Tech, Inc. (Tetra Tech), at the ConocoPhillips Company Hampton 4M site near Aztec, New Mexico.

The site is located approximately ¼ mile south of Hampton Arroyo and 2 miles southeast of Aztec, New Mexico. The site consists of a gas production well and associated equipment and installations on Federal land. The location and general features of the Hampton 4M site are shown on **Figures 1** and **2**, respectively.

1.1 Site Background

The history of the site is outlined in **Table 1**. The Hampton 4M gas well was spudded on November 22, 1983, by Southland Royalty Company (Southland). Southland was acquired by Burlington Resources, Inc. (Burlington) in January of 1996 and Burlington was subsequently acquired by ConocoPhillips Company in March of 2006.

Environmental assessment and remediation activities at this site date back to April of 1996, when Public Service Company of New Mexico (PNM), the operator of some tanks, a dehydration unit and an unlined earthen pit on the north end of the Hampton 4M well pad, initiated pit closure work. Approximately 6,400 cubic yards of contaminated soil was removed from the site by Burlington Resources (Burlington) from November 10, 1998 through February 2, 1999. During this period, Monitor Wells MW-2, MW-3, MW-4, MW-6, MW-8 and MW-10 were removed. Maps outlining the excavation area for these activities, as well as a former excavation conducted by Burlington in December 1997 are provided in **Attachment A**. Monitor Wells MW-13 and MW-14 were removed during additional excavation activities in 2000. The existing monitor well network consists of 9 wells: MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15, MW-16, and TMW-1. A nearby groundwater seep is also part of the current program to monitor the progression of natural remediation at the site. A generalized geologic cross section for the site is provided in **Figure 3**.

2.0 MONITORING SUMMARY AND SAMPLING METHODOLOGY / RESULTS

2.1 Monitoring Summary

Groundwater samples were collected from Monitor Wells MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15, MW-16, and a seep on location on September 24, 2009. Monitor Well TMW-1 was not sampled due to an insufficient water column. Prior to sampling, depth to groundwater was measured in all monitor wells. A groundwater contour map, showing a general flow direction to the south, is provided in **Figure 4**. Groundwater elevation data is included in **Table 2**.

2.2 Groundwater Sampling Methodology

Monitor Wells MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15 and MW-16 were each purged of three well volumes of water and sampled. A 1.5-inch clear, polyvinyl chloride, disposable bailer was used to purge each well and to collect the groundwater sample. The purge water generated during the event was disposed of in the waste water tank located on site. The groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped with chain-of-custody documentation to Southern Petroleum Laboratories in Houston, Texas. All samples collected were analyzed for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B. Field sampling forms are included as **Appendix A**.

2.3 Groundwater Sampling Analytical Results

Samples collected during the 2009 sampling event indicate the following results:

- Groundwater concentrations for BTEX were below laboratory method detection limits in Monitor Wells MW-1, MW-9, MW-11, MW-15, and the onsite seep.
- Groundwater concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard for:
 - benzene (10 micrograms per liter [$\mu\text{g/L}$]), toluene (750 $\mu\text{g/L}$), and total xylenes (620 $\mu\text{g/L}$) in monitoring wells MW-5 and MW-16;
 - benzene in monitoring well MW-12.

Table 3 summarizes the laboratory analytical results for the 2009 sampling event. The corresponding laboratory analysis report including quality control summaries is included in **Appendix B**.

3.0 CONCLUSIONS

Tetra Tech recommends continued annual groundwater sampling at the Site in order to provide sufficient data for site closure. Site closure will be requested when groundwater quality results begin to indicate that all constituents of concern are consistently below NMWQCC groundwater quality standards. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetrattech.com if you have any questions or require additional information.

FIGURES

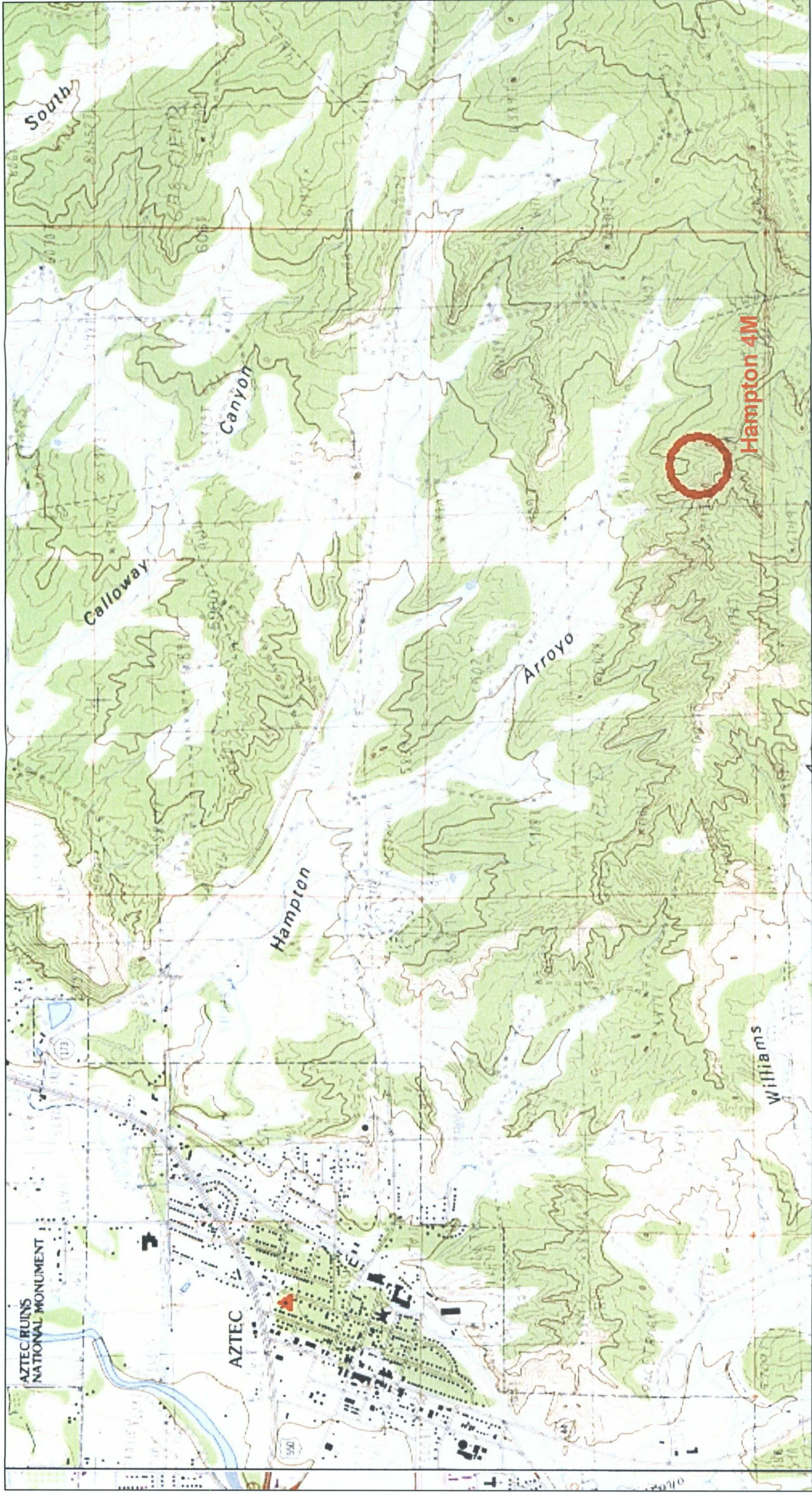


Figure 1. Site Location Map
ConocoPhillips Hampton 4M Site
Aztec, New Mexico

Approximate Scale:



TETRA TECH, INC.

Figure 2. Site Layout Map
ConocoPhillips Company
Hampton 4M Site
Aztec, New Mexico

ConocoPhillips - Spatial Energy 2008 imagery



LEGEND

- Monitoring Well
- Seep
- El Paso Gas Pipeline

0 50 100 200
FEET

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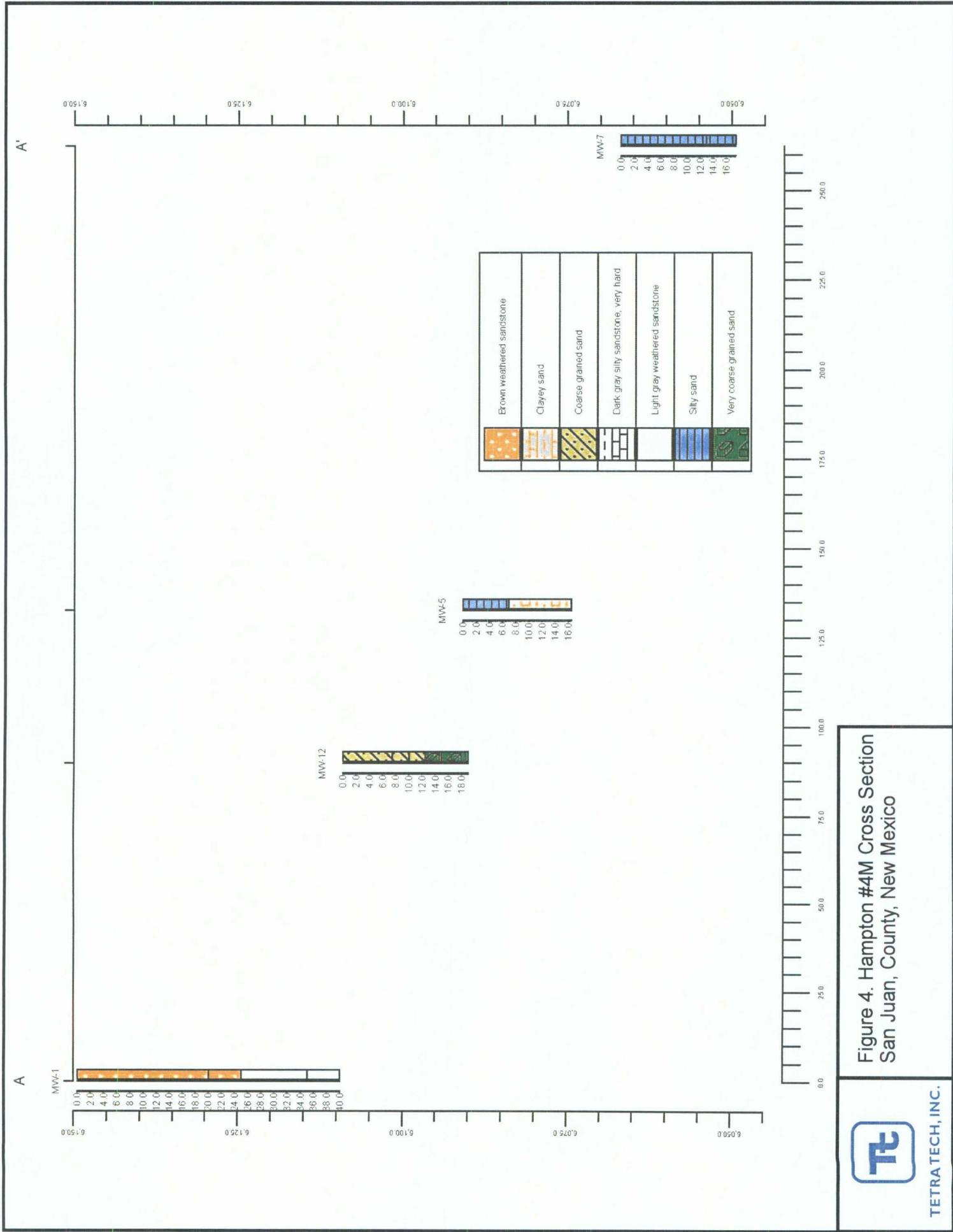
ConocoPhillips - Spatial Energy 2008 imagery

Figure 3. Groundwater Contour Map
ConocoPhillips Company
Hampton 4M Site
Aztec, New Mexico

| LEGEND | |
|--------|-------------------------------|
| | Monitoring Well |
| | Seep |
| | El Paso Gas Pipeline |
| | Groundwater elevation contour |

0 50 100 200
FEET

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TETRA TECH, INC.

TABLES

Table 1. Site History

ConocoPhillips Company – Hampton #4M

| <u>Date</u> | <u>Event</u> |
|-------------|---|
| 11/22/1983 | Hampton #4M spudded by Southland Royalty Company. |
| 02/06/1984 | Southland Royalty Company completed Hampton #4M in the Basin pool (Dakota Formation). |
| 10/11/1984 | Southland Royalty Company completed Hampton #4M in the Blanco pool of the Mesaverde Formation on October 11, 1984 (second production zone). |
| 03/01/1990 | Southland entered into an agreement with Gas Company of New Mexico (predecessor to Public Service Company of New Mexico -- PNM) to sell production from the Hampton No. 4M well. PNM installed and operated dehydration equipment in the northern-most portion of the site as part of the contract. |
| 06/30/1995 | Williams Field Services purchased the dehydration equipment from PNM. |
| 01/02/1996 | Burlington Resources completed the acquisition of Southland Royalty Company. |
| 04/23/1996 | PNM discovered potential hydrocarbon contamination beneath PNM's dehydrator discharge pit during a site assessment. PNM subsequently began pit closure work. |
| 12/16/1996 | While drilling to determine the vertical extent of hydrocarbon contamination beneath a former unlined, earthen dehydrator discharge pit located on the north end of the Hampton No. 4M well pad, PNM discovered hydrocarbon-impacted groundwater. Total BTEX in groundwater was 20,620 parts per billion (ppb) and benzene was 3,840 ppb (equivalent to micrograms per liter (ug/L)). |
| 01/13/1997 | PNM notified the New Mexico Oil Conservation Division (NMOCD) in writing of the discovery of groundwater contamination at the site. |
| 01/28/1997 | PNM gauged monitor well MW-2 and discovered approximately 4 feet of light, non-aqueous phase liquid (LNAPL). |
| 01/31/1997 | PNM installed two monitor wells up-gradient from PNM's former pit. One of the wells, adjacent to Burlington's equipment, encountered contaminated groundwater. |
| 01/31/1997 | PNM installed MW-3 and MW-4. |
| 02/04/1997 | PNM hosted an on-site meeting with NMOCD and Burlington to discuss remediation options. |
| 04/14/1997 | During a site visit, Burlington discovered a surface seep north of the well pad with LNAPL discharging to a small drainage area. Burlington notified NMOCD and PNM on the same day. |

| <u>Date</u> | <u>Event</u> |
|------------------|---|
| 04/16/1997 | Burlington hosted an on-site meeting with PNM and NMOCD to discuss the seep. NMOCD asked for immediate action to contain the seep. The group agreed to install a collection trench. |
| 04/17/1997 | Burlington constructed a collection trench between the seep and the well head. A sandstone shelf was encountered 6 to 8 feet bgs. Black to grey saturated soil was found above the sandstone. PID readings were between 1,000 - 2,000 PPM. |
| 04/30/1997 | <p>Burlington attempted to excavate the area of the former tank discharge pit. Sandstone was encountered at one foot below the bottom of the pit. The excavator could not penetrate the sandstone. There was no indication of hydrocarbon contamination in this area.</p> <p>Burlington subsequently excavated 9 to 10 test holes in the vicinity of the well pad. No hydrocarbon contaminated areas were found in any of the test holes.</p> |
| 06/05-06/06/1997 | Burlington advanced 7 boreholes around the well pad. Each of the 7 boreholes was subsequently completed as a temporary monitoring well. |
| 08/01/1997 | NMOCD issued a letter to PNM and Burlington. PNM was directed to assess contamination downgradient of its pit and Burlington was directed to submit an assessment plan for the portion of the site upgradient of the PNM disposal pit. |
| November 1997 | PNM installed an LNAPL recovery well system adjacent to PNM's former pit. |
| 12/31/1997 | Hydrocarbon impacted soil was excavated from December 1997 to 2000 at various locations to the depth of groundwater. Potassium permanganate applied to excavations. |
| January 1998 | PNM initiated LNAPL recovery. |
| 02/23/1998 | Mr. J. Burton Everett, the owner of property downgradient from the site, wrote a letter to the NMOCD, expressing concern over the migration of hydrocarbons onto his property. |
| 03/13/1998 | The NMOCD sent a letter to PNM directing the removal, within 30 days, of the remaining source areas of LNAPL in the vicinity and immediately downgradient of PNM's former pit. |

| <u>Date</u> | <u>Event</u> |
|----------------|--|
| April 1998 | PNM appealed NMOCD's directive and sought a stay, pending a decision on its appeal. |
| April/May 1998 | LNAPL was discovered upgradient from the dehydration pit and Burlington installed two additional monitoring wells. |
| 08/20/1998 | NMOCD denied PNM's request for a stay (filed in April 1998). |
| 09/01/1998 | NMOCD issued a letter to PNM and Burlington requesting that the companies work together to remediate the site and complete the downgradient extent of hydrocarbon contamination. |
| 10/28/1998 | Burlington responded to NMOCD's letter of September 1, 1998. The letter stated that if PNM did not begin remediation of PNM's former pit by October 30, 1998, Burlington would begin remediating the entire site, starting at PNM's former pit and working south to Burlington's former pit. |
| 11/06/1998 | Burlington Resources submitted a Sundry Notice to the BLM requesting permission to stockpile clean soil associated with remediation activities. |
| November 1998 | PNM's appeal of NMOCD's directive was heard at a Division examiner hearing. NMOCD entered Order No. R-11134 and PNM appealed. |
| November 1998 | PNM's LNAPL recovery efforts were terminated as a result of Burlington's removal of PNM's system during excavation activities. |
| 04/14/1999 | NMOCD sampled a groundwater seep to the northwest of the well pad. The analytical results revealed benzene in excess of New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards. |

| <u>Date</u> | <u>Event</u> |
|---------------------------|--|
| 03/24/2000 | <p>NMOCD issued Order No. R-11134-A to Burlington and PNM. The Order</p> <ol style="list-style-type: none"> 1) denied the application by PNM for rescinding the prior directive, 2) declared Burlington the responsible party for any contamination south and upgradient fo the PNM disposal pit, 3) declared PNM the responsible party for any soil contamination remaining below its former pit, 4) directed PNM and Burlington to share responsibility of remediation for any GW or soil contamination, other than soil contamination below the former PNM pit, remaining north and downgradient of the property for which Burlington is responsible, 5) directed PNM and Burlington to submit remediation plans to NMOCD, 6) directed both PNM and Burlington to begin remedial activities within 10 days of NMOCD approval of the plans, 7) directed PNM to have oversight and reporting responsibilities for GW remediation in the area north and downgradient of the property for which Burlington is responsible, and 8) retained jurisdiction for NMOCD for any further orders as may be necessary. |
| 01/24/2008 | Site was sampled and mapped in November 2007 and then sampled again in January 2008. |
| March 2008 – January 2009 | Tetra Tech Inc. of Albuquerque, NM on site to collect quarterly groundwater samples in March 2008, July 2008, October 2008 and January 2009 |
| August 6, 2009 | Tetra Tech submits the 2008 Annual Report to the New Mexico Oil Conservation Division (OCD) via FedEx (hardcopy) and ConocoPhillips Company (electronically). |
| September 24, 2009 | Tetra Tech on site to collect annual groundwater samples. |

Table 2. ConocoPhillips Company Hampton 4M - Groundwater Elevation Summary

| Monitor Well | TOC Elevation (ft AMSL) | Sample Date | Depth to Water (ft) | GW Elevation (ft AMSL) |
|--------------|----------------------------|-------------|------------------------|---------------------------|
| MW-1 | 6149.42 | 11/8/2007 | 42.81 | 6106.61 |
| | | 1/17/2008 | 42.96 | 6106.46 |
| | | 3/19/2008 | 42.93 | 6106.49 |
| | | 7/22/2008 | 42.74 | 6106.68 |
| | | 10/23/2008 | 32.80 | 6116.62 |
| | | 1/21/2009 | 42.90 | 6106.52 |
| | | 9/24/2009 | 43.09 | 6106.33 |
| MW-5 | 6090.83 | 11/8/2007 | 16.52 | 6074.31 |
| | | 1/17/2008 | 15.65 | 6075.18 |
| | | 3/19/2008 | 13.64 | 6077.19 |
| | | 7/22/2008 | 15.72 | 6075.11 |
| | | 10/23/2008 | 16.53 | 6074.30 |
| | | 1/21/2009 | 16.04 | 6074.79 |
| | | 9/24/2009 | 16.89 | 6073.94 |
| TMW-1 | No survey - DTW only | 11/8/2007 | 19.06 | NA |
| | | 1/17/2008 | 19.37 | NA |
| | | 3/19/2008 | 18.55 | NA |
| | | 7/22/2008 | 18.10 | NA |
| | | 10/23/2008 | 19.19 | NA |
| | | 1/21/2009 | 19.25 | NA |
| | | 9/24/2009 | 19.61 | NA |
| MW-7 | 6066.91 | 11/8/2007 | 20.22 | 6046.69 |
| | | 1/17/2008 | 20.50 | 6046.41 |
| | | 3/19/2008 | 20.02 | 6046.89 |
| | | 7/22/2008 | 19.29 | 6047.62 |
| | | 10/23/2008 | 19.95 | 6046.96 |
| | | 1/21/2009 | 20.44 | 6046.47 |
| | | 9/24/2009 | 20.55 | 6046.36 |
| MW-9 | 6122.52 | 11/8/2007 | 22.91 | 6099.61 |
| | | 1/17/2008 | 22.76 | 6099.76 |
| | | 3/19/2008 | 22.38 | 6100.14 |
| | | 7/22/2008 | 23.10 | 6099.42 |
| | | 10/23/2008 | 23.02 | 6099.50 |
| | | 1/21/2009 | 22.85 | 6099.67 |
| | | 9/24/2009 | 23.64 | 6098.88 |

Table 2. ConocoPhillips Company Hampton 4M - Groundwater Elevation Summary

| Monitor Well | TOC Elevation (ft AMSL) | Sample Date | Depth to Water (ft) | GW Elevation (ft AMSL) |
|--------------|----------------------------|-------------|------------------------|---------------------------|
| MW-11 | 6015.75 | 11/8/2007 | 56.00 | 5959.75 |
| | | 1/17/2008 | 55.86 | 5959.89 |
| | | 3/19/2008 | 55.88 | 5959.87 |
| | | 7/22/2008 | 55.71 | 5960.04 |
| | | 10/23/2008 | 55.91 | 5959.84 |
| | | 1/21/2009 | 55.75 | 5960.00 |
| | | 9/24/2009 | 56.02 | 5959.73 |
| MW-12 | 6109.02 | 11/8/2007 | 20.46 | 6088.56 |
| | | 1/17/2008 | 20.24 | 6088.78 |
| | | 3/19/2008 | 19.85 | 6089.17 |
| | | 7/22/2008 | 20.54 | 6088.48 |
| | | 10/23/2008 | 20.61 | 6088.41 |
| | | 1/21/2009 | 20.37 | 6088.65 |
| | | 9/24/2009 | 21.23 | 6087.79 |
| MW-15 | No survey - DTW only | 11/8/2007 | 18.03 | NA |
| | | 1/17/2008 | 18.20 | NA |
| | | 3/19/2008 | 17.60 | NA |
| | | 7/22/2008 | 17.79 | NA |
| | | 10/23/2008 | 18.01 | NA |
| | | 1/21/2009 | 18.20 | NA |
| | | 9/24/2009 | 18.33 | NA |
| MW-16 | No survey - DTW only | 11/8/2007 | 25.03 | NA |
| | | 1/17/2008 | 24.88 | NA |
| | | 3/19/2008 | 24.37 | NA |
| | | 7/22/2008 | 25.00 | NA |
| | | 10/23/2008 | 25.57 | NA |
| | | 1/21/2009 | 24.97 | NA |
| | | 9/24/2009 | 25.75 | NA |

Explanation

ft = feet

AMSL = Above mean sea level

DTW = Depth to water

NA = Not available

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|---------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-1 | 10/30/1997 | 2.4 | 2.3 | <0.2 | 1.1 |
| | 1/12/1998 | 4.3 | 3.3 | 0.2 | 1.0 |
| | 4/14/1998 | 1.0 | 1.3 | <0.5 | <0.5 |
| | 7/1/1998 | 1.3 | 1.0 | <0.5 | 3.7 |
| | 10/5/1998 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 11/9/1998 | No sample collected | | | |
| | 1/27/1999 | 0.8 | 0.9 | <0.5 | <1.5 |
| | 5/5/1999 | No sample collected | | | |
| | 7/12/1999 | 1.1 | 0.5 | <0.5 | <0.5 |
| | 8/17/1999 | No sample collected | | | |
| | 10/21/1999 | No sample collected | | | |
| | 1/27/2000 | No sample collected | | | |
| | 6/13/2000 | No sample collected | | | |
| | 6/26/2001 | No sample collected | | | |
| | 9/18/2001 | No sample collected | | | |
| | 12/18/2002 | No sample collected | | | |
| | 3/22/2002 | No sample collected | | | |
| | 9/24/2003 | 0.9J | 1 | U | 0.4J |
| | 12/15/2003 | 1.1 | 0.9J | U | U |
| | 3/15/2004 | U | U | U | U |
| | 6/21/2004 | U | U | U | U |
| | 9/29/2004 | U | U | U | U |
| | 12/31/2004 | U | 0.9J | U | 3.3J |
| | 3/22/2005 | U | 0.3J | U | U |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | U | U | U | U |
| | 12/12/2005 | U | 0.7J | U | 0.6J |
| | 3/20/2006 | 1.1 | 0.9J | U | 0.6J |
| | 6/21/2006 | 0.3J | 1.4 | 0.4J | 1.8J |
| | 10/18/2006 | U | 0.2 | 0.2 | 1.3 |
| | 12/12/2006 | U | 0.2 | 0.2 | 1.4 |
| | 3/26/2007 | <0.3 U | 0.3 J | 0.2 J | 0.4 J |
| | 6/26/2007 | <0.3 U | <0.2 U | <0.2 U | <0.6 U |
| | 11/8/2007 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 1/15/2008 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 3/19/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 7/22/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 10/23/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 1/21/2009 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 9/24/2009 | <1.0U | <1.0U | <1.0U | <1.0U |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-5 | 10/29/1997 | 5934 | 10024 | 709 | 8188 |
| | 1/12/1998 | 7521 | 11213 | 779 | 8436 |
| | 4/14/1998 | 7000 | 11000 | 720 | 7800 |
| | 7/1/1998 | 6500 | 10000 | 780 | 7500 |
| | 10/5/1998 | 6800 | 8400 | 740 | 6900 |
| | 11/9/1998 | 6200 | 8200 | 670 | 6500 |
| | 1/27/1999 | 6400 | 8900 | 660 | 6700 |
| | 5/5/1999 | 6800 | 9800 | 900 | 7800 |
| | 5/26/1999 | 6600 | 10000 | 650 | 8100 |
| | 7/12/1999 | 6300 | 10000 | 750 | 8800 |
| | 8/17/1999 | 5400 | 9800 | 670 | 7500 |
| | 8/17/1999 | 5900 | 8900 | 500 | 6200 |
| | 10/21/1999 | 5200 | 9600 | 650 | 6900 |
| | 1/27/2000 | 4700 | 10000 | 680 | 7400 |
| | 6/13/2000 | 8400 | 19000 | 1700 | 22000 |
| | 3/29/2001 | 3890 | 9600 | 640 | 7730 |
| | 6/26/2001 | 3800 | 11000 | 700 | 9000 |
| | 9/18/2001 | 4100 | 11000 | 760 | 10000 |
| | 12/18/2001 | 3200 | 9700 | 600 | 7800 |
| | 3/22/2002 | 3500 | 10000 | 830 | 8500 |
| | 6/28/2002 | 3700 | 12000 | 760 | 10000 |
| | 9/23/2002 | 3000 | 9800 | 640 | 8300 |
| | 12/31/2002 | 2900 | 8900 | 580 | 7300 |
| | 3/27/2003 | 1220 | 4870 | 487 | 6010 |
| | 6/27/2003 | 2040 | 8550 | 640 | 8050 |
| | 9/24/2003 | 2110 | 9090 | 700 | 9200 |
| | 12/15/2003 | 2150 | 9240 | 720 | 8810 |
| | 3/15/2005 | 1370 | 8100 | 660 | 8710 |
| | 6/21/2004 | 1610 | 8740 | 640 | 8220 |
| | 9/29/2004 | 1710 | 7250 | 670 | 8090 |
| | 12/31/2004 | 1820 | 9150 | 730 | 9030 |
| | 3/22/2005 | 420 | 1420 | 110 | 1160 |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | 1070 | 6660 | 610 | 7620 |
| | 12/12/2005 | 900 | 5930 | 520 | 6280 |
| | 3/20/2006 | 820 | 6270 | 510 | 6040 |
| | 6/21/2006 | 930 | 6110 | 580 | 6690 |
| | 10/18/2006 | 690 | 5140 | 500 | 5870 |
| | 12/18/2006 | 640 | 5090 | 500 | 5610 |
| | 3/26/2007 | 660 | 6470 | 530 | 5450 |
| | 6/26/2007 | 740 | 8070 | 640 | 7320 |
| | 11/8/2007 | 410 | 4800 | 390 | 5000 |
| | 1/17/2008 | 440 | 6400 | 510 | 6100 |
| | 3/19/2008 | 370 | 2900 | 240 | 2570 |
| | 7/22/2008 | 340 | 6100 | 550 | 6400 |
| | 10/23/2008 | 270 | 6200 | 440 | 6300 |
| | 1/21/2009 | 250 | 3800 | 510 | 5200 |
| | 9/24/2009 | 190 | 4300 | 470 | 5100 |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|---------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-7 | 1/12/1998 | 780 | 246 | 258 | 3942 |
| | 4/14/1998 | 820 | 340 | 190 | 2450 |
| | 7/1/1998 | 950 | 440 | 200 | 3020 |
| | 10/5/1998 | 1600 | 930 | 180 | 1530 |
| | 11/9/1998 | 1800 | 1000 | 160 | 1240 |
| | 1/27/1999 | 2100 | 1000 | 160 | 1050 |
| | 5/5/1999 | 210 | 3 | 30 | 147 |
| | 5/26/1999 | 190 | 7 | 32 | 150 |
| | 7/12/1999 | 130 | 7 | 22 | 101 |
| | 8/17/1999 | No sample collected | | | |
| | 10/21/1999 | 260 | 11 | 15 | 89 |
| | 1/27/2000 | 670 | 580 | 54 | 680 |
| | 6/17/2000 | 420 | 1100 | 75 | 1400 |
| | 3/29/2001 | 830 | 150 | 320 | 1790 |
| | 6/26/2001 | 540 | 330 | 250 | 1410 |
| | 9/18/2001 | 870 | 560 | 320 | 2020 |
| | 12/18/2001 | 400 | 30 | 160 | 885 |
| | 3/22/2002 | 180 | U | 78 | 260 |
| | 6/28/2002 | 89 | 1 | 41 | 79 |
| | 9/23/2002 | 80 | 3 | 31 | 18.89 |
| | 12/31/2002 | 160 | 2.2 | 74 | 31.5 |
| | 3/27/2003 | 195 | 0.4 | 44.2 | 109 |
| | 6/27/2003 | 300 | 1.4 J | 117 | 461.6 |
| | 9/24/2003 | 90 | 12 | 2 | 694 |
| | 12/15/2004 | 150 | 4J | 115 | 549 |
| | 3/15/2004 | 56 | 1J | 6 | 3 |
| | 6/21/2004 | 180 | U | 55 | 58J |
| | 9/29/2004 | 163 | 0.9J | 54.5 | 69.8 |
| | 12/31/2004 | 94 | 3J | 10 | 24J |
| | 3/22/2005 | 20.8 | U | 2.4 | 4.8 |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | 65.2 | 0.7J | 2 | 2.7J |
| | 12/12/2005 | 66.2 | 1J | 8.7 | 8.5J |
| | 3/20/2006 | 72 | U | 12.6 | 16.9 |
| | 6/21/2006 | 89.9 | 10.6 | 4.8 | 14.5 |
| | 10/18/2006 | 31.9 | 0.4J | 1.8 | 4.1 |
| | 12/12/2006 | 29.4 | 1.5 | 3.1 | 5.7 |
| | 3/26/2007 | 11.5 | 1.0 | 0.6 J | 0.8 J |
| | 6/26/2007 | 56 | 0.4 J | 17.7 | 1.3 |
| | 11/8/2007 | 44 | <0.7 U | 2.0 | <0.8 U |
| | 1/17/2008 | 17 | <0.7 U | 3.0 | <0.8 U |
| | 3/19/2008 | 5 | <5.0 U | <5.0 U | <5.0 U |
| | 7/22/2008 | 32 | <5.0 U | 12.0 | 7 |
| | 10/23/2008 | 17 | <5.0 U | <5.0 U | <5.0 U |
| | 1/21/2009 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 9/24/2009 | 3.7 | <1.0U | <1.0U | <1.0U |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|---------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-9 | 7/1/1998 | 12.0 | <1.0 | <1.0 | <3.0 |
| | 10/5/1998 | 0.8 | <0.5 | <0.5 | 2.2 |
| | 11/9/1998 | 73.0 | <0.5 | 2.2 | 1.6 |
| | 1/27/1999 | 120.0 | <0.5 | 2.5 | 1.8 |
| | 5/5/1999 | 120.0 | <0.5 | 1.6 | 0.8 |
| | 5/26/1999 | 140.0 | <0.5 | 1.5 | <0.5 |
| | 5/26/1999 | 290.0 | <0.5 | 0.6 | <1.5 |
| | 7/12/1999 | 320.0 | <0.5 | 0.6 | <1.5 |
| | 8/17/1999 | 130.0 | U | U | U |
| | 10/21/1999 | <0.5 | 1.9 | <0.5 | 2.5 |
| | 1/27/2000 | <0.2 | <0.2 | <0.2 | <0.2 |
| | 6/13/2000 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 3/29/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 6/26/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 9/18/2001 | U | U | U | U |
| | 12/18/2001 | U | U | U | U |
| | 3/22/2002 | U | U | U | U |
| | 6/28/2002 | U | U | U | U |
| | 9/23/2002 | 0.4 J | U | U | U |
| | 3/27/2003 | U | U | U | U |
| | 6/27/2003 | 0.5J | U | U | U |
| | 9/24/2003 | U | U | U | U |
| | 12/15/2003 | U | U | U | U |
| | 3/15/2004 | U | U | U | U |
| | 6/21/2004 | U | 0.4J | U | 0.7J |
| | 9/29/2004 | U | U | U | U |
| | 12/31/2004 | Missing Lab Data | | | |
| | 3/22/2005 | U | U | U | U |
| | 6/23/2005 | U | 0.3J | U | U |
| | 12/12/2005 | No sample collected | | | |
| | 3/20/2006 | U | U | U | U |
| | 6/21/2006 | U | U | U | U |
| | 10/18/2006 | U | U | U | 0.3J |
| | 12/12/2006 | 0.3J | 0.7J | 0.3J | 1.2J |
| | 3/26/2007 | <0.3 U | <0.2 U | <0.2 U | <0.6 U |
| | 6/26/2007 | <0.3 U | <0.2 U | <0.2 U | <0.6 U |
| | 11/8/2007 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 1/17/2008 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 3/19/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 7/22/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 10/23/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 1/21/2009 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 9/24/2009 | <1.0U | <1.0U | <1.0U | <1.0U |

**Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory
Analytical Results Summary**

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|---------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-11 | 1/27/1999 | <0.5 | 2.5 | 0.7 | 13.1 |
| | 5/5/1999 | <0.5 | <0.5 | <0.5 | <1.5 |
| | 5/26/1999 | 0.8 | 1.7 | <0.5 | 1.1 |
| | 7/12/1999 | No sample collected | | | |
| | 8/17/1999 | No sample collected | | | |
| | 10/21/1999 | <0.5 | <0.5 | <0.5 | <1.5 |
| | 1/27/2000 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/13/2000 | <0.5 | <0.5 | <0.5 | 0.9 |
| | 3/29/2001 | <0.2 | <0.2 | <0.2 | <0.2 |
| | 6/26/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 9/18/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/18/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/19/2001 | U | U | U | U |
| | 12/20/2001 | U | U | U | U |
| | 12/21/2001 | U | U | U | U |
| | 12/22/2001 | U | U | U | U |
| | 5/24/2003 | U | U | U | U |
| | 6/27/2003 | 0.4J | 0.3J | U | 0.4J |
| | 9/24/2003 | U | U | U | U |
| | 12/15/2003 | 0.5J | U | U | U |
| | 3/15/2004 | U | U | U | U |
| | 6/21/04 | U | U | U | 0.5J |
| | 9/29/2004 | U | U | U | U |
| | 12/31/2004 | U | U | U | U |
| | 3/22/2005 | U | U | U | U |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | U | U | U | U |
| | 12/12/2005 | U | 0.3J | U | U |
| | 3/20/2006 | U | U | U | U |
| | 6/21/2006 | U | 0.3J | U | 0.8J |
| | 10/18/2006 | U | 0.3J | 0.4J | 1.2J |
| | 12/12/2006 | U | U | U | 0.3J |
| | 3/26/2007 | <0.3 U | <0.2 U | <0.2 U | <0.6 U |
| | 6/26/2007 | <0.3 U | <0.2 U | <0.2 U | <0.6 U |
| | 11/8/2007 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 1/17/2008 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 3/19/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 7/22/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 10/23/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 1/21/2009 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 9/24/2009 | <1.0U | <1.0U | <1.0U | <1.0U |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|---------------------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-12 | 5/5/1999 | 790 | 840 | 260 | 2880 |
| | 5/5/1999 | 1200 | 13000 | 5100 | 68000 |
| | 5/26/1999 | 1900 | 820 | 200 | 1720 |
| | 5/26/1999 | 1800 | 640 | 160 | 1600 |
| | 7/12/1999 | 4500 | 760 | 400 | 3100 |
| | 7/12/1999 | 4600 | 730 | 390 | 3080 |
| | 8/17/1999 | 4800 | 5000 | 320 | 3390 |
| | 8/17/1999 | 5900 | 6100 | 390 | 4100 |
| | 10/21/1999 | 5600 | 650 | 540 | 2890 |
| | 1/27/2000 | 4100 | 550 | 430 | 2379 |
| | 6/13/2000 | 5000 | 1300 | 490 | 2700 |
| | 3/29/2001 | 5170 | 1790 | 366 | 2620 |
| | 6/26/2001 | 4800 | 1900 | 390 | 2560 |
| | 9/18/2001 | 5100 | 2400 | 430 | 2820 |
| | 12/18/2001 | 4000 | 1500 | 320 | 1880 |
| | 3/22/2002 | 3300 | 930 | 290 | 1270 |
| | 6/28/2002 | 4200 | 1800 | 410 | 1940 |
| | 9/23/2002 | 3800 | 1500 | 310 | 1510 |
| | 12/31/2002 | 3600 | 840 | 280 | 1010 |
| | 3/27/2003 | Well dry - No samples collected | | | |
| | 5/24/2003 | 3990 | 2230 | 299 | 1470 |
| | 6/27/2003 | 5290 | 2750 | 360 | 1600 |
| | 9/24/2003 | 4600 | 1690 | 290 | 1150 |
| | 12/15/2003 | 4200 | 1360 | 240 | 1150 |
| | 3/15/2004 | 2090 | 1120 | 300 | 1250 |
| | 6/21/2004 | 3870 | 1820 | 280 | 1500 |
| | 6/29/2004 | 5140 | 2220 | 240 | 1280 |
| | 12/31/2004 | 4160 | 1220 | 250 | 1150 |
| | 3/22/2005 | 2380 | 1100 | 130 | 710 |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | 1350 | 150 | 80 | 330 |
| | 12/16/2005 | 2380 | 422 | 111 | 341 |
| | 3/20/2006 | 2100 | 210 | 71 | 225 |
| | 6/21/2006 | 2270 | 385 | 85 | 355 |
| | 10/18/2006 | 1740 | 477 | 112 | 399 |
| | 12/12/2006 | 2400 | 1110 | 142 | 668 |
| | 3/26/2007 | 4130 | 1680 | 340 | 1180 |
| | 6/26/2007 | 1520 | 432 | 118 | 340 |
| | 11/8/2007 | 780 | 310 | 43 | 170 |
| | 1/17/2008 | 2000 | 1400 | 180 | 790 |
| | 3/19/2008 | 1600 | 560 | 160 | 530 |
| | 7/22/2008 | 730 | 22 | 14 | 21 |
| | 10/23/2008 | 500 | 30 | 22 | 40 |
| | 1/21/2009 | 1100 | 430 | 110 | 410 |
| | 9/24/2009 | 610 | 8.3 | 10 | 19.5 |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-15 | 10/21/1999 | <0.5 | 1.2 | <0.5 | 1.5 |
| | 1/27/2000 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/13/2000 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/29/2001 | <0.2 | <0.2 | <0.2 | <0.2 |
| | 6/26/2001 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/18/2001 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/18/2001 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/22/2002 | U | U | U | U |
| | 6/28/2002 | U | U | U | U |
| | 9/23/2002 | U | U | U | U |
| | 12/31/2002 | U | U | U | U |
| | 3/27/2003 | U | 0.3J | U | 0.9J |
| | 6/27/2003 | 0.4J | U | U | U |
| | 9/24/2003 | U | U | U | U |
| | 12/15/2004 | 0.7J | U | U | U |
| | 3/15/2004 | U | 0.3J | U | U |
| | 6/21/2004 | U | U | U | U |
| | 9/29/2004 | U | U | U | U |
| | 12/31/2004 | U | 0.9J | 0.3J | 1.4J |
| | 3/22/2005 | U | U | U | U |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | U | U | U | U |
| | 12/12/2005 | U | 0.3J | U | 0.4J |
| | 3/20/2006 | U | U | U | U |
| | 6/21/2006 | 0.7J | U | 0.3J | U |
| | 10/18/2006 | U | 0.3J | U | 0.2J |
| | 12/12/2006 | U | U | U | U |
| | 3/26/2007 | <0.3 U | <0.2 U | <0.2 U | <0.6 U |
| | 6/26/2007 | <0.3 U | 0.5 J | <0.2 U | <0.6 U |
| | 11/8/2007 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 1/17/2008 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 3/19/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 7/22/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 10/23/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 1/21/2009 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 9/24/2009 | <1.0U | <1.0U | <1.0U | <1.0U |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|---------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| MW-16 | 10/21/1999 | 220 | 300 | 5 | 142 |
| | 10/21/1999 | 214 | 268 | 4 | 151 |
| | 1/27/2000 | 1600 | 170 | 56 | 225 |
| | 6/13/2000 | 8700 | 430 | 680 | 2200 |
| | 6/26/2001 | 9300 | 1100 | 810 | 3410 |
| | 9/18/2001 | 11000 | 6400 | 590 | 6400 |
| | 12/18/2001 | 9900 | 6900 | 570 | 7400 |
| | 3/22/2003 | 10000 | 6600 | 1100 | 7400 |
| | 6/28/2002 | 11000 | 7000 | 770 | 5700 |
| | 9/23/2002 | 8900 | 9900 | 610 | 8500 |
| | 12/31/2002 | 8800 | 7900 | 770 | 7400 |
| | 3/27/2003 | 10400 | 11200 | 840 | 8670 |
| | 5/27/2003 | No sample collected | | | |
| | 9/24/2003 | 10300 | 15400 | 870 | 10590 |
| | 12/15/2004 | 9640 | 12600 | 720 | 1550 |
| | 3/15/2004 | 9200 | 16000 | 1310 | 12000 |
| | 6/21/2004 | 8040 | 18100 | 2450 | 18580 |
| | 9/29/2004 | 8330 | 14000 | 760 | 8230 |
| | 12/31/2004 | 8340 | 17100 | 1550 | 18830 |
| | 3/28/2005 | 4140 | 5810 | 760 | 10480 |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | 6280 | 9800 | 670 | 6910 |
| | 12/12/2005 | 6940 | 11500 | 750 | 8060 |
| | 3/20/2006 | 6820 | 11500 | 830 | 8550 |
| | 6/21/2006 | 6640 | 11200 | 690 | 7570 |
| | 10/18/2006 | 5700 | 10200 | 620 | 6520 |
| | 12/12/2006 | 4600 | 10000 | 550 | 6830 |
| | 3/26/2007 | 2970 | 2820 | 260 | 5220 |
| | 6/26/2007 | 5230 | 9110 | 770 | 7760 |
| | 11/8/2007 | 5500 | 12000 | 570 | 6200 |
| | 1/17/2008 | 4600 | 9100 | 550 | 5600 |
| | 3/19/2008 | 5500 | 9600 | 510 | 6900 |
| | 7/22/2008 | 3600 | 6100 | 430 | 4500 |
| | 10/23/2008 | 4700 | 9100 | 480 | 6600 |
| | 1/21/2009 | 4200 | 7500 | 480 J | 6900 |
| | 9/24/2009 | 3200 | 4600 | 340 | 3500 |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|---------|-------------|---------------------|---------|--------------|---------------|
| | | (µg/L) | | | |
| TMW-1 | 1/27/2000 | 930 | 1400 | 350 | 6700 |
| | 6/13/2000 | 2400 | 3400 | 550 | 9100 |
| | 6/26/2001 | 1100 | 3500 | 330 | 5500 |
| | 9/18/2001 | No sample collected | | | |
| | 12/18/2001 | No sample collected | | | |
| | 3/22/2002 | No sample collected | | | |
| | 6/28/2002 | No sample collected | | | |
| | 9/23/2002 | No sample collected | | | |
| | 12/31/2002 | No sample collected | | | |
| | 3/27/2003 | No sample collected | | | |
| | 5/23/2003 | 830 | 123 | 107 | 1004.7 |
| | 6/27/2003 | 474 | 36.6 | 59.6 | 490.7 |
| | 9/24/2003 | 292 | 139 | 17 | 221 |
| | 12/15/2003 | 55.9 | 1.3 | 3.9 | 42.5 |
| | 3/15/2004 | No sample collected | | | |
| | 6/21/2004 | 40.6 | U | 14.1 | 14.7 |
| | 9/29/2004 | 410 | 8.7 | 59.6 | 458.5 |
| | 12/31/2004 | 3J | 5J | 1J | 11J |
| | 3/22/2005 | 67.8 | 13.3 | 8.1 | 101.7 |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | 483 | 705 | 45 | 328 |
| | 12/12/2005 | 122 | 317 | 19 | 160 |
| | 3/20/2006 | 71 | 82 | 16 | 151 |
| | 6/21/2006 | 159 | 65.7 | 56.9 | 360 |
| | 10/18/2006 | 6.4 | 1.6 | 2.1 | 13.8 |
| | 12/12/2006 | No sample collected | | | |
| | 3/26/2007 | NA | NA | NA | NA |
| | 6/26/2007 | 269 | 2.6 | 4.9 | 15.7 |
| | 11/8/2007 | 300 | 12 | 6 | 38 |
| | 1/17/2008 | 0.8 | <0.7 U | <0.8 U | 1 |
| | 3/19/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 7/22/2008 | 130 | 29 | 11 | 22 |
| | 10/23/2008 | NA | NA | NA | NA |
| | 1/21/2009 | 13 | <5.0 U | <5.0 U | <5.0 U |
| | 9/24/2009 | NS | NS | NS | NS |

Table 3. ConocoPhillips Company Hampton 4M - Groundwater Laboratory Analytical Results Summary

| Well ID | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|------------------|-------------|------------------|------------|--------------|---------------|
| | | (µg/L) | | | |
| Seep | 7/1/1998 | 1.6 | 0.7 | 0.6 | 0.36 |
| | 4/14/1999 | 40.0 | 2.2 | 2.1 | 19 |
| | 10/21/1999 | 65.0 | 230 | 11.0 | 434 |
| | 3/29/2001 | 11.6 | <0.2 | 0.7J | 25 |
| | 6/26/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 9/18/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/18/2001 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 3/22/2002 | 5.9 | U | 0.8 | 3.4 |
| | 6/28/2002 | U | U | U | U |
| | 9/23/2002 | U | U | U | U |
| | 12/31/2002 | 0.7 | U | U | U |
| | 3/27/2003 | 6.3 | 0.2J | 1.8 | 10 |
| | 9/24/2003 | U | 0.3J | U | U |
| | 12/15/2003 | 0.4J | 0.3J | U | U |
| | 3/15/2004 | U | U | U | U |
| | 6/21/2004 | U | U | U | U |
| | 9/29/2004 | U | U | U | U |
| | 12/31/2004 | U | 0.2J | U | 0.4J |
| | 3/28/2005 | U | U | U | U |
| | 6/23/2005 | Missing Lab Data | | | |
| | 10/24/2005 | U | J | U | U |
| | 12/12/2005 | U | 0.5J | 0.3J | 0.9J |
| | 3/20/2006 | U | U | U | U |
| | 6/21/2006 | 4 | 12.9 | 0.8J | 15 |
| | 10/18/2006 | U | 0.5J | 0.3J | 1.4J |
| | 12/12/2006 | U | U | U | U |
| | 3/26/2007 | <0.3 U | 0.3 J | <0.2 U | <0.6 UJ |
| | 6/26/2007 | <0.3 U | <0.2 U | <0.2 U | <0.6 U |
| | 11/8/2007 | <0.5 U | <0.7 U | <0.8 U | <0.8 U |
| | 1/17/2008 | NA | NA | NA | NA |
| | 3/19/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 7/22/2008 | NA | NA | NA | NA |
| | 10/23/2008 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 1/21/2009 | <5.0 U | <5.0 U | <5.0 U | <5.0 U |
| | 9/24/2009 | <1.0U | <1.0U | <1.0U | <1.0U |
| NMWQCC Standards | | 10 (µg/L) | 750 (µg/L) | 750 (µg/L) | 620 (µg/L) |

Explanation

J = Analyte concentration detected at a value between MDL and PQL

MDL = Method Detection Limit

NA = Not Analyzed

NS = Not Sampled

NMWQCC = New Mexico Water Quality Control Commission

PQL = Practical Quantitation Limit

U = Analyte was analyzed for but not detected at the indicated MDL

µg/L = micrograms per liter (parts per billion)

APPENDIX A
FIELD SAMPLING FORMS



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 1 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-1 Coded/
Replicate No. _____Date 9/24/09Weather Cool, lt. breeze Time Sampling
Began 1018Time Sampling
Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Top of CasingHeight of MP Above/Below Land Surface 43.09 MP Elevation _____Total Sounded Depth of Well Below MP 49.54 49.47 Water-Level Elevation _____Held _____ Depth to Water Below MP 43.09 Diameter of Casing 2"Wet _____ Water Column in Well 6.38 Gallons Pumped/Bailed
Prior to Sampling _____

Gallons per Foot _____ 0.16

Gallons in Well 1.02 x 3 = 3.06 gallons Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm³) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|--------------|------------------|-------------|-----------------------|--------------|-------------|-------------|
| <u>12:27</u> | <u>12.8</u> | <u>4.06</u> | <u>3162</u> | <u>2.055</u> | <u>3.77</u> | <u>35.8</u> |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

TURB
156.1Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

| | | |
|-------------|---------------------|------------|
| <u>BTEX</u> | <u>3 40mL VOA's</u> | <u>HCl</u> |
| | | |
| | | |

Remarks _____

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3" ½ = 0.50 | 6" = 1.46 |



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 2 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-5Coded/
Replicate No. _____Date 9/24/09Weather not, 75°Time Sampling
Began 1455Time Sampling
Completed 1500breezy

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____

MP Elevation _____

Total Sounded Depth of Well Below MP 20.19

Water-Level Elevation _____

Held _____ Depth to Water Below MP 11.89Diameter of Casing 2"Wet _____ Water Column in Well 3.3Gallons Pumped/Bailed
Prior to Sampling _____Gallons per Foot 0.16Gallons in Well 0.52 x 3 = 1.56Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm³) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|-------------|------------------|-------------|-----------------------|--------------|-------------|---------------|
| <u>1459</u> | <u>16.50</u> | <u>6.67</u> | <u>4358</u> | <u>2.835</u> | <u>3.88</u> | <u>-294.8</u> |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Turb
63.48Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HClRemarks reduced bio odor, water is gray, light sheen

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3 ½" = 0.50 | 6" = 1.46 |



TETRATECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 3 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-7 Coded/
Replicate No. _____Date 9/24/09Weather _____ Time Sampling
Began _____Time Sampling
Completed 1505

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 21.2 Water-Level Elevation _____Held _____ Depth to Water Below MP 20.55 Diameter of Casing 2"Wet _____ Water Column in Well _____ Gallons Pumped/Bailed
Prior to Sampling _____Gallons per Foot 0.16Gallons in Well _____ Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm³) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|------|------------------|----|-----------------------|-----------|-----------|----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HCl

Remarks _____

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3" ½ = 0.50 | 6" = 1.46 |



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 4 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-9 Coded/
Replicate No. _____Date 9/24/09Weather 70°, breezy Time Sampling
Began 1105Time Sampling
Completed 1120

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 34.55 32.35 Water-Level Elevation _____Held _____ Depth to Water Below MP 23.61 Diameter of Casing 2"Wet _____ Water Column in Well 8.71 Gallons Pumped/Bailed
Prior to Sampling _____Gallons per Foot 0.16Gallons in Well 1.39 x 3 = 4.17 Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm³) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|-------------|------------------|-------------|-----------------------|--------------|-------------|--------------|
| <u>1110</u> | <u>14.89</u> | <u>5.59</u> | <u>3945</u> | <u>2.564</u> | <u>5.93</u> | <u>197.5</u> |
| <u>1114</u> | <u>14.50</u> | <u>5.88</u> | <u>3974</u> | <u>2.583</u> | <u>2.40</u> | <u>155.6</u> |
| <u>1118</u> | <u>14.57</u> | <u>5.94</u> | <u>3973</u> | <u>2.580</u> | <u>2.12</u> | <u>152.9</u> |
| | | | | | | |
| | | | | | | |

Turb
181.0
108.7Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HClRemarks well head is venting

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3 ½" = 0.50 | 6" = 1.46 |



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 5 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-11Coded/
Replicate No. _____Date 9/24/09Weather Cool, SunnyTime Sampling
Began 1159Time Sampling
Completed 1250

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 68.5 168.77 Water-Level Elevation _____Held _____ Depth to Water Below MP 56.02 Diameter of Casing 2"Wet _____ Water Column in Well 12.7 Gallons Pumped/Bailed
Prior to Sampling 6.09Gallons per Foot 0.16Gallons in Well 2.03 x 3 = 6.09 Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm³) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|-------------|------------------|-------------|-----------------------|--------------|-------------|-------------|
| <u>1209</u> | <u>14.13</u> | <u>6.15</u> | <u>2884</u> | <u>1.875</u> | <u>3.21</u> | <u>57.7</u> |
| <u>1227</u> | <u>14.12</u> | <u>6.28</u> | <u>2888</u> | <u>1.877</u> | <u>2.35</u> | <u>24.1</u> |
| <u>1243</u> | <u>14.18</u> | <u>6.28</u> | <u>2880</u> | <u>1.872</u> | <u>3.11</u> | <u>16.5</u> |
| | | | | | | |
| | | | | | | |

NRB
103.1
44.82
26.56

Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HClRemarks Reddish water, clearing @ 3 volumesSampling Personnel GD, AM

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3 ½" = 0.50 | 6" = 1.46 |



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 6 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-12Coded/
Replicate No. _____Date 9/24/09Weather 75°, breezyTime Sampling
Began 1525/5/8Time Sampling
Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 30.19 Water-Level Elevation _____Held _____ Depth to Water Below MP 21.23 Diameter of Casing 2"Wet _____ Water Column in Well 8.94 Gallons Pumped/Bailed
Prior to Sampling _____

Gallons per Foot _____ 0.16

Gallons in Well 143 x 3 = 4.29 Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm ³) | TDS (g/L) | DO (mg/L) | ORP (mV) | TURB |
|-------------|------------------|-------------|------------------------------------|--------------|-------------|---------------|--------------|
| <u>1520</u> | <u>14.68</u> | <u>5.9</u> | <u>3433</u> | <u>223</u> | <u>3.34</u> | <u>-241.6</u> | <u>46.23</u> |
| <u>1526</u> | <u>14.31</u> | <u>6.01</u> | <u>3482</u> | <u>2.266</u> | <u>2.06</u> | <u>-232.6</u> | <u>48.34</u> |
| <u>1528</u> | <u>14.26</u> | <u>6.07</u> | <u>3479</u> | <u>2.262</u> | <u>2.28</u> | <u>-240.8</u> | <u>39.59</u> |
| | | | | | | | |
| | | | | | | | |

Sampling Equipment Purge Pump/Bailer

| Constituents Sampled | Container Description | Preservative |
|----------------------|-----------------------|--------------|
| <u>BTEX</u> | <u>3 40mL VOA's</u> | <u>HCl</u> |
| | | |
| | | |

Remarks _____

Sampling Personnel GD, AM

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3 ½" = 0.50 | 6" = 1.46 |

R:\Share\Maxim Forms\Field Forms\Hampton 4M Water Sampling Field Forms.xls



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 7 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-15Coded/
Replicate No. _____Date 9/24/09Weather Warm, 70°Time Sampling
Began 1040Time Sampling
Completed 1055

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 27.29 24.84 Water-Level Elevation _____Held _____ Depth to Water Below MP 18.33 Diameter of Casing 2"Wet _____ Water Column in Well 6.51 Gallons Pumped/Bailed
Prior to Sampling _____Gallons per Foot 0.16Gallons in Well 1.04 x 3 = 3.12 Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| | Time | Temperature (°C) | pH | Conductivity (µS/cm³) | TDS (g/L) | DO (mg/L) | ORP (mV) | Turb |
|-----|-------|------------------|------|-----------------------|-----------|-----------|----------|-------|
| 1.5 | 10.49 | 15.73 | 3.84 | 3619 | 2.352 | 3.03 | 387.4 | 33.75 |
| 2.5 | 10.51 | 15.86 | 3.86 | 3616 | 2.216 | 2.77 | 383.4 | 77.43 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Sampling Equipment Purge Pump/Bailer

| Constituents Sampled | Container Description | Preservative |
|----------------------|-----------------------|--------------|
| BTEX | 3 40mL VOA's | HCl |
| | | |
| | | |

Remarks _____

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3" ½ = 0.50 | 6" = 1.46 |



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 8 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. MW-16Coded/
Replicate No. _____Date 9/24/09Weather Cool, sunnyTime Sampling
Began 1158 1520Time Sampling
Completed 1545

EVACUATION DATA

DUP @ 1600

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 31.0 29.72 Water-Level Elevation _____Held _____ Depth to Water Below MP 25.75 Diameter of Casing 4"Wet _____ Water Column in Well 3.97 Gallons Pumped/Bailed
Prior to Sampling _____Gallons per Foot 0.10 0.65Gallons in Well 2.58 x 3 = 7.74 Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|-------------|------------------|-------------|----------------------|-------------|-------------|---------------|
| <u>1537</u> | <u>14.52</u> | <u>6.54</u> | <u>3307</u> | <u>2.15</u> | <u>5.98</u> | <u>-302.7</u> |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Turbidity
94.21Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HClRemarks DRY @ 4 gallons

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3 ½" = 0.50 | 6" = 1.46 |



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 9 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. TMW-1Coded/
Replicate No. _____

Date _____

Weather _____

Time Sampling
Began _____Time Sampling
Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 19.4 19.66 Water-Level Elevation _____Held _____ Depth to Water Below MP 19.66 Diameter of Casing 2"Wet _____ Water Column in Well _____ Gallons Pumped/Bailed
Prior to Sampling _____Gallons per Foot 0.16

Gallons in Well _____

Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm ³) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|------|------------------|----|------------------------------------|-----------|-----------|----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sampling Equipment Purge Pump/BailerConstituents SampledContainer DescriptionPreservativeBTEX 3 40mL VOA's HCl

Remarks _____

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3" ½ = 0.50 | 6" = 1.46 |



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Hampton 4MPage 10 of 10

Project No. _____

Site Location San Juan County, Hwy 173 near Aztec, NMSite/Well No. seep Coded/
Replicate No. _____Date 9/24/09Weather _____ Time Sampling
Began _____Time Sampling
Completed 1500

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP _____ Water-Level Elevation _____

Held _____ Depth to Water Below MP _____ Diameter of Casing _____

Wet _____ Water Column in Well _____ Gallons Pumped/Bailed
Prior to Sampling _____

Gallons per Foot _____

Gallons in Well _____ Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

| Time | Temperature (°C) | pH | Conductivity (µS/cm ³) | TDS (g/L) | DO (mg/L) | ORP (mV) |
|------|------------------|----|------------------------------------|-----------|-----------|----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sampling Equipment Purge Pump/Bailer

| Constituents Sampled | Container Description | Preservative |
|----------------------|-----------------------|--------------|
| <u>BTEX</u> | <u>3 40mL VOA's</u> | <u>HCl</u> |
| | | |
| | | |

Remarks _____

Sampling Personnel _____

Well Casing Volumes

| | | | | |
|----------|--------------|-------------|-------------|-----------|
| Gal./ft. | 1 ¼" = 0.077 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1 ½" = 0.10 | 2 ½" = 0.24 | 3 ½" = 0.50 | 6" = 1.46 |

APPENDIX B
LABORATORY ANALYSIS REPORT



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

Conoco Phillips

Certificate of Analysis Number:

09091280

| | |
|--|--|
| <u>Report To:</u> Tetra Tech, Inc. Kelly Blanchard 6121 Indian School Road, N.E. Suite 200 Albuquerque NM 87110- ph: (505) 237-8440 fax: | <u>Project Name:</u> COP Hampton 4M <u>Site:</u> Aztec, NM <u>Site Address:</u> <u>PO Number:</u> 4510016693 <u>State:</u> New Mexico <u>State Cert. No.:</u> <u>Date Reported:</u> 10/6/2009 |
|--|--|

This Report Contains A Total Of 22 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

10/7/2009

Date

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



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

Case Narrative for:
Conoco Phillips

Certificate of Analysis Number:
09091280

| | |
|---|---|
| Report To: Tetra Tech, Inc. Kelly Blanchard 6121 Indian School Road, N.E. Suite 200 Albuquerque NM 87110- ph: (505) 237-8440 fax: | Project Name: COP Hampton 4M Site: Aztec, NM Site Address: PO Number: 4510016693 State: New Mexico State Cert. No.: Date Reported: 10/6/2009 |
|---|---|

I. SAMPLE RECEIPT:

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

Sample "Seep" was received at lab with 2 of the 3 vials broken. Only one vial remains. Samples "MW-16 and MW-7" were received at lab with 1 of the three vials broken. Only two vials remain per sample.

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.

III. GENERAL REPORTING COMMENTS:

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

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

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

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

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

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.

09091280 Page 1

10/7/2009

Erica Cardenas
Project Manager

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

Date



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

Conoco Phillips

Certificate of Analysis Number:

09091280

Report To: Tetra Tech, Inc.
Kelly Blanchard
6121 Indian School Road, N.E.
Suite 200
Albuquerque
NM
87110-
ph: (505) 237-8440 fax: (505) 881-3283

Project Name: COP Hampton 4M
Site: Aztec, NM
Site Address:

PO Number: 4510016693
State: New Mexico
State Cert. No.:
Date Reported: 10/6/2009

Fax To:

| Client Sample ID | Lab Sample ID | Matrix | Date Collected | Date Received | COC ID | HOLD |
|------------------|---------------|--------|-----------------------|----------------------|--------|--------------------------|
| MW-1 | 09091280-01 | Water | 9/24/2009 11:45:00 AM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| MW-5 | 09091280-02 | Water | 9/24/2009 3:00:00 PM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| MW-7 | 09091280-03 | Water | 9/24/2009 3:05:00 PM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| MW-9 | 09091280-04 | Water | 9/24/2009 11:20:00 AM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| MW-11 | 09091280-05 | Water | 9/24/2009 12:50:00 PM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| MW-12 | 09091280-06 | Water | 9/24/2009 3:30:00 PM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| MW-15 | 09091280-07 | Water | 9/24/2009 10:55:00 AM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| MW-16 | 09091280-08 | Water | 9/24/2009 3:45:00 PM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| Seep | 09091280-09 | Water | 9/24/2009 3:00:00 PM | 9/26/2009 9:30:00 AM | 331790 | <input type="checkbox"/> |
| Duplicate | 09091280-10 | Water | 9/24/2009 4:00:00 PM | 9/26/2009 9:30:00 AM | 331796 | <input type="checkbox"/> |
| Trip Blank | 09091280-11 | Water | 9/24/2009 4:05:00 PM | 9/26/2009 9:30:00 AM | 331796 | <input type="checkbox"/> |

Erica Cardenas

Erica Cardenas
Project Manager

10/7/2009

Date

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

Ted Yen
Quality Assurance Officer



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

Client Sample ID: MW-1

Collected: 09/24/2009 11:45 SPL Sample ID: 09091280-01

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|-----------------------------------|--------|------|-----------|-------------|----------------|---------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | MCL | SW8260B | Units: ug/L | | |
| Benzene | ND | | 1 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| Ethylbenzene | ND | | 1 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| Toluene | ND | | 1 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| m,p-Xylene | ND | | 2 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| o-Xylene | ND | | 1 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| Xylenes, Total | ND | | 1 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| Surr: 1,2-Dichloroethane-d4 | 98.7 | | % 78-116 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| Surr: 4-Bromofluorobenzene | 100 | | % 74-125 | 1 | 09/29/09 19:25 | LU_L | 5224256 |
| Surr: Toluene-d8 | 96.0 | | % 82-118 | 1 | 09/29/09 19:25 | LU_L | 5224256 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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

Client Sample ID: MW-5

Collected: 09/24/2009 15:00

SPL Sample ID: 09091280-02

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|-----------------------------------|--------|------|-----------|-------------|----------------|---------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | MCL | SW8260B | Units: ug/L | | |
| Benzene | 190 | | 1 | 1 | 09/29/09 22:07 | LU_L | 5224259 |
| Ethylbenzene | 470 | | 100 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| Toluene | 4300 | | 100 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| m,p-Xylene | 3900 | | 200 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| o-Xylene | 1200 | | 100 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| Xylenes, Total | 5100 | | 100 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| Surr: 1,2-Dichloroethane-d4 | 93.8 | % | 78-116 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| Surr: 1,2-Dichloroethane-d4 | 88.9 | % | 78-116 | 1 | 09/29/09 22:07 | LU_L | 5224259 |
| Surr: 4-Bromofluorobenzene | 102 | % | 74-125 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| Surr: 4-Bromofluorobenzene | 98.9 | % | 74-125 | 1 | 09/29/09 22:07 | LU_L | 5224259 |
| Surr: Toluene-d8 | 95.6 | % | 82-118 | 100 | 10/02/09 22:06 | LU_L | 5229674 |
| Surr: Toluene-d8 | 97.4 | % | 82-118 | 1 | 09/29/09 22:07 | LU_L | 5224259 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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

Client Sample ID: MW-7

Collected: 09/24/2009 15:05 SPL Sample ID: 09091280-03

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|-----------------------------------|--------|------|-----------|-------------|---------------|---------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | MCL | SW8260B | Units: ug/L | | |
| Benzene | 3.7 | | 1 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| Ethylbenzene | ND | | 1 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| Toluene | ND | | 1 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| m,p-Xylene | ND | | 2 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| o-Xylene | ND | | 1 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| Xylenes, Total | ND | | 1 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| Surr: 1,2-Dichloroethane-d4 | 105 | % | 78-116 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| Surr: 4-Bromofluorobenzene | 99.8 | % | 74-125 | 1 | 10/02/09 5:14 | LU_L | 5229610 |
| Surr: Toluene-d8 | 95.9 | % | 82-118 | 1 | 10/02/09 5:14 | LU_L | 5229610 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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

Client Sample ID: MW-9

Collected: 09/24/2009 11:20

SPL Sample ID: 09091280-04

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|-----------|-------------|----------------|--------------------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | | MCL | SW8260B | Units: ug/L | |
| Benzene | ND | | 1 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| Ethylbenzene | ND | | 1 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| Toluene | ND | | 1 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| m,p-Xylene | ND | | 2 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| o-Xylene | ND | | 1 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| Xylenes, Total | ND | | 1 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| Surr: 1,2-Dichloroethane-d4 | 91.1 | | % 78-116 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| Surr: 4-Bromofluorobenzene | 98.9 | | % 74-125 | 1 | 10/02/09 5:41 | LU_L | 5229611 |
| Surr: Toluene-d8 | 95.8 | | % 82-118 | 1 | 10/02/09 5:41 | LU_L | 5229611 |

Qualifiers:

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

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



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

Client Sample ID: MW-11

Collected: 09/24/2009 12:50

SPL Sample ID: 09091280-05

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|------------|----------------|--------------------|---------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | MCL | SW8260B | Units: ug/L | | |
| Benzene | ND | | 1 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| Ethylbenzene | ND | | 1 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| Toluene | ND | | 1 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| m,p-Xylene | ND | | 2 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| o-Xylene | ND | | 1 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| Xylenes, Total | ND | | 1 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| Surr: 1,2-Dichloroethane-d4 | 103 | | % 78-116 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| Surr: 4-Bromofluorobenzene | 99.8 | | % 74-125 | 1 | 10/02/09 6:08 | LU_L | 5229612 |
| Surr: Toluene-d8 | 95.7 | | % 82-118 | 1 | 10/02/09 6:08 | LU_L | 5229612 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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

Client Sample ID: MW-12

Collected: 09/24/2009 15:30

SPL Sample ID: 09091280-06

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|-----------|-------------|----------------|--------------------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | | MCL | SW8260B | Units: ug/L | |
| Benzene | 610 | | 10 | 10 | 10/02/09 19:51 | LU_L | 5229669 |
| Ethylbenzene | 10 | | 1 | 1 | 10/02/09 6:35 | LU_L | 5229613 |
| Toluene | 8.3 | | 1 | 1 | 10/02/09 6:35 | LU_L | 5229613 |
| m,p-Xylene | 15 | | 2 | 1 | 10/02/09 6:35 | LU_L | 5229613 |
| o-Xylene | 4.5 | | 1 | 1 | 10/02/09 6:35 | LU_L | 5229613 |
| Xylenes, Total | 19.5 | | 1 | 1 | 10/02/09 6:35 | LU_L | 5229613 |
| Surr: 1,2-Dichloroethane-d4 | 93.9 | | % 78-116 | 10 | 10/02/09 19:51 | LU_L | 5229669 |
| Surr: 1,2-Dichloroethane-d4 | 96.2 | | % 78-116 | 1 | 10/02/09 6:35 | LU_L | 5229613 |
| Surr: 4-Bromofluorobenzene | 104 | | % 74-125 | 10 | 10/02/09 19:51 | LU_L | 5229669 |
| Surr: 4-Bromofluorobenzene | 98.5 | | % 74-125 | 1 | 10/02/09 6:35 | LU_L | 5229613 |
| Surr: Toluene-d8 | 98.8 | | % 82-118 | 10 | 10/02/09 19:51 | LU_L | 5229669 |
| Surr: Toluene-d8 | 94.1 | | % 82-118 | 1 | 10/02/09 6:35 | LU_L | 5229613 |

Qualifiers:

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

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



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

Client Sample ID: MW-15

Collected: 09/24/2009 10:55 SPL Sample ID: 09091280-07

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|------------|----------------|--------------------|---------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | MCL | SW8260B | Units: ug/L | | |
| Benzene | ND | | 1 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| Ethylbenzene | ND | | 1 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| Toluene | ND | | 1 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| m,p-Xylene | ND | | 2 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| o-Xylene | ND | | 1 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| Xylenes, Total | ND | | 1 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| Surr: 1,2-Dichloroethane-d4 | 92.4 | | % 78-116 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| Surr: 4-Bromofluorobenzene | 97.7 | | % 74-125 | 1 | 10/02/09 7:03 | LU_L | 5229614 |
| Surr: Toluene-d8 | 94.3 | | % 82-118 | 1 | 10/02/09 7:03 | LU_L | 5229614 |

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

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



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

Client Sample ID: MW-16

Collected: 09/24/2009 15:45

SPL Sample ID: 09091280-08

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|-----------|-------------|----------------|--------------------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | | MCL | SW8260B | Units: ug/L | |
| Benzene | 3200 | | 100 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| Ethylbenzene | 340 | | 100 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| Toluene | 4600 | | 100 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| m,p-Xylene | 2500 | | 200 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| o-Xylene | 1000 | | 100 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| Xylenes, Total | 3500 | | 100 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| Surr: 1,2-Dichloroethane-d4 | 96.3 | | % 78-116 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| Surr: 4-Bromofluorobenzene | 99.6 | | % 74-125 | 100 | 10/02/09 21:12 | LU_L | 5229672 |
| Surr: Toluene-d8 | 96.1 | | % 82-118 | 100 | 10/02/09 21:12 | LU_L | 5229672 |

Qualifiers:

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

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



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

Client Sample ID: Seep

Collected: 09/24/2009 15:00

SPL Sample ID: 09091280-09

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|-----------|-------------|----------------|--------------------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | | MCL | SW8260B | Units: ug/L | |
| Benzene | ND | | 1 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| Ethylbenzene | ND | | 1 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| Toluene | ND | | 1 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| m,p-Xylene | ND | | 2 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| o-Xylene | ND | | 1 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| Xylenes, Total | ND | | 1 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| Surr: 1,2-Dichloroethane-d4 | 88.0 | | % 78-116 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| Surr: 4-Bromofluorobenzene | 98.9 | | % 74-125 | 1 | 10/02/09 12:56 | LU_L | 5229620 |
| Surr: Toluene-d8 | 97.4 | | % 82-118 | 1 | 10/02/09 12:56 | LU_L | 5229620 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNCT - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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

Client Sample ID: Duplicate

Collected: 09/24/2009 16:00 SPL Sample ID: 09091280-10

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|-----------|-------------|----------------|--------------------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | | MCL | SW8260B | Units: ug/L | |
| Benzene | 4000 | | 100 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| Ethylbenzene | 430 | | 100 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| Toluene | 6000 | | 100 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| m,p-Xylene | 3100 | | 200 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| o-Xylene | 1200 | | 100 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| Xylenes,Tctal | 4300 | | 100 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| Surr: 1,2-Dichloroethane-d4 | 93.6 | % | 78-116 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| Surr: 4-Bromofluorobenzene | 102 | % | 74-125 | 100 | 10/02/09 21:39 | LU_L | 5229673 |
| Surr: Toluene-d8 | 98.0 | % | 82-118 | 100 | 10/02/09 21:39 | LU_L | 5229673 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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

Client Sample ID: Trip Blank

Collected: 09/24/2009 16:05

SPL Sample ID: 09091280-11

Site: Aztec, NM

| Analyses/Method | Result | QUAL | Rep.Limit | Dil. Factor | Date Analyzed | Analyst | Seq. # |
|--|--------|------|-----------|-------------|----------------|--------------------|---------|
| VOLATILE ORGANICS BY METHOD 8260B | | | | MCL | SW8260B | Units: ug/L | |
| Benzene | ND | | 1 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| Ethylbenzene | ND | | 1 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| Toluene | ND | | 1 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| m,p-Xylene | ND | | 2 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| o-Xylene | ND | | 1 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| Xylenes, Total | ND | | 1 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| Surr: 1,2-Dichloroethane-d4 | 92.0 | | % 78-116 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| Surr: 4-Bromofluorobenzene | 103 | | % 74-125 | 1 | 09/29/09 18:58 | LU_L | 5224255 |
| Surr: Toluene-d8 | 97.8 | | % 82-118 | 1 | 09/29/09 18:58 | LU_L | 5224255 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

Quality Control Documentation



Quality Control Report

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

Conoco Phillips COP Hampton 4M

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09091280
Lab Batch ID: R285050

Method Blank

Samples in Analytical Batch:

RunID: K_090929B-5224254 Units: ug/L
Analysis Date: 09/29/2009 15:46 Analyst: LU_L

| Lab Sample ID | Client Sample ID |
|---------------|------------------|
| 09091280-01A | MW-1 |
| 09091280-02A | MW-5 |
| 09091280-11A | Trip Blank |

| Analyte | Result | Rep Limit |
|-----------------------------|--------|-----------|
| Benzene | ND | 1.0 |
| Ethylbenzene | ND | 1.0 |
| Toluene | ND | 1.0 |
| m,p-Xylene | ND | 2.0 |
| o-Xylene | ND | 1.0 |
| Xylenes, Total | ND | 1.0 |
| Surr: 1,2-Dichloroethane-d4 | 98.3 | 78-116 |
| Surr: 4-Bromofluorobenzene | 101.4 | 74-125 |
| Surr: Toluene-d8 | 96.9 | 82-118 |

Laboratory Control Sample (LCS)

RunID: K_090929B-5224253 Units: ug/L
Analysis Date: 09/29/2009 14:51 Analyst: LU_L

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|-----------------------------|-------------|--------|------------------|-------------|-------------|
| Benzene | 20.0 | 20.8 | 104 | 74 | 123 |
| Ethylbenzene | 20.0 | 18.5 | 92.3 | 72 | 127 |
| Toluene | 20.0 | 20.5 | 102 | 74 | 126 |
| m,p-Xylene | 40.0 | 37.0 | 92.5 | 71 | 129 |
| o-Xylene | 20.0 | 18.4 | 92.1 | 74 | 130 |
| Xylenes, Total | 60.0 | 55.4 | 92.4 | 71 | 130 |
| Surr: 1,2-Dichloroethane-d4 | 50.0 | 49.7 | 99.4 | 78 | 116 |
| Surr: 4-Bromofluorobenzene | 50.0 | 50.4 | 101 | 74 | 125 |
| Surr: Toluene-d8 | 50.0 | 47.4 | 94.8 | 82 | 118 |

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

Sample Spiked: 09091280-01
RunID: K_090929B-5224257 Units: ug/L
Analysis Date: 09/29/2009 19:52 Analyst: LU_L

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

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



Quality Control Report

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

Conoco Phillips COP Hampton 4M

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09091280
Lab Batch ID: R285050

| Analyte | Sample Result | MS Spike Added | MS Result | MS % Recovery | MSD Spike Added | MSD Result | MSD % Recovery | RPD | RPD Limit | Low Limit | High Limit |
|-----------------------------|---------------|----------------|-----------|---------------|-----------------|------------|----------------|-------|-----------|-----------|------------|
| Benzene | ND | 20 | 22.0 | 110 | 20 | 22.3 | 112 | 1.65 | 22 | 70 | 124 |
| Ethylbenzene | ND | 20 | 19.0 | 95.0 | 20 | 19.3 | 96.7 | 1.83 | 20 | 76 | 122 |
| Toluene | ND | 20 | 19.6 | 98.0 | 20 | 20.3 | 101 | 3.31 | 24 | 80 | 117 |
| m,p-Xylene | ND | 40 | 37.0 | 92.6 | 40 | 37.2 | 93.1 | 0.555 | 20 | 69 | 127 |
| o-Xylene | ND | 20 | 18.5 | 92.7 | 20 | 18.7 | 93.5 | 0.870 | 20 | 84 | 114 |
| Xylenes, Total | ND | 60 | 55.5 | 92.6 | 60 | 55.9 | 93.2 | 0.660 | 20 | 69 | 127 |
| Surr: 1,2-Dichloroethane-d4 | ND | 50 | 48.3 | 96.6 | 50 | 48.6 | 97.3 | 0.654 | 30 | 78 | 116 |
| Surr: 4-Bromofluorobenzene | ND | 50 | 48.1 | 96.1 | 50 | 49.3 | 98.6 | 2.49 | 30 | 74 | 125 |
| Surr: Toluene-d8 | ND | 50 | 46.7 | 93.5 | 50 | 47.5 | 95.0 | 1.60 | 30 | 82 | 118 |

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

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

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Quality Control Report

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

Conoco Phillips COP Hampton 4M

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09091280
Lab Batch ID: R285376

Method Blank

Samples in Analytical Batch:

RunID: K_091001G-5229609 Units: ug/L
Analysis Date: 10/02/2009 4:47 Analyst: LU_L

| Lab Sample ID | Client Sample ID |
|---------------|------------------|
| 09091280-03A | MW-7 |
| 09091280-04A | MW-9 |
| 09091280-05A | MW-11 |
| 09091280-06A | MW-12 |
| 09091280-07A | MW-15 |
| 09091280-09A | Seep |

| Analyte | Result | Rep Limit |
|-----------------------------|--------|-----------|
| Benzene | ND | 1.0 |
| Ethylbenzene | ND | 1.0 |
| Toluene | ND | 1.0 |
| m,p-Xylene | ND | 2.0 |
| o-Xylene | ND | 1.0 |
| Xylenes, Total | ND | 1.0 |
| Surr: 1,2-Dichloroethane-d4 | 96.5 | 78-116 |
| Surr: 4-Bromofluorobenzene | 100.3 | 74-125 |
| Surr: Toluene-d8 | 96.7 | 82-118 |

Laboratory Control Sample (LCS)

RunID: K_091001G-5229608 Units: ug/L
Analysis Date: 10/02/2009 4:20 Analyst: LU_L

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|-----------------------------|-------------|--------|------------------|-------------|-------------|
| Benzene | 20.0 | 22.8 | 114 | 74 | 123 |
| Ethylbenzene | 20.0 | 19.2 | 95.8 | 72 | 127 |
| Toluene | 20.0 | 20.1 | 101 | 74 | 126 |
| m,p-Xylene | 40.0 | 37.8 | 94.4 | 71 | 129 |
| o-Xylene | 20.0 | 19.0 | 94.8 | 74 | 130 |
| Xylenes, Total | 60.0 | 56.8 | 94.5 | 71 | 130 |
| Surr: 1,2-Dichloroethane-d4 | 50.0 | 47.9 | 95.8 | 78 | 116 |
| Surr: 4-Bromofluorobenzene | 50.0 | 49.1 | 98.1 | 74 | 125 |
| Surr: Toluene-d8 | 50.0 | 47 | 93.9 | 82 | 118 |

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

Sample Spiked: 09091378-08
RunID: K_091001G-5229618 Units: ug/L
Analysis Date: 10/02/2009 10:13 Analyst: LU_L

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

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

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Quality Control Report

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

Conoco Phillips COP Hampton 4M

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09091280
Lab Batch ID: R285376

| Analyte | Sample Result | MS Spike Added | MS Result | MS % Recovery | MSD Spike Added | MSD Result | MSD % Recovery | RPD | RPD Limit | Low Limit | High Limit |
|-----------------------------|---------------|----------------|-----------|---------------|-----------------|------------|----------------|--------|-----------|-----------|------------|
| Benzene | ND | 20 | 21.9 | 109 | 20 | 21.4 | 107 | 2.40 | 22 | 70 | 124 |
| Ethylbenzene | ND | 20 | 19.7 | 98.7 | 20 | 19.0 | 95.2 | 3.53 | 20 | 76 | 122 |
| Toluene | ND | 20 | 20.6 | 103 | 20 | 19.5 | 97.6 | 5.46 | 24 | 80 | 117 |
| m,p-Xylene | ND | 40 | 37.5 | 93.8 | 40 | 37.0 | 92.6 | 1.28 | 20 | 69 | 127 |
| o-Xylene | ND | 20 | 19.7 | 98.4 | 20 | 18.8 | 94.1 | 4.45 | 20 | 84 | 114 |
| Xylenes, Total | ND | 60 | 57.2 | 95.3 | 60 | 55.8 | 93.1 | 2.36 | 20 | 69 | 127 |
| Surr: 1,2-Dichloroethane-d4 | ND | 50 | 46.9 | 93.8 | 50 | 46.9 | 93.9 | 0.0853 | 30 | 78 | 116 |
| Surr: 4-Bromofluorobenzene | ND | 50 | 48.9 | 97.8 | 50 | 49.1 | 98.3 | 0.432 | 30 | 74 | 125 |
| Surr: Toluene-d8 | ND | 50 | 48.8 | 97.6 | 50 | 48.2 | 96.4 | 1.30 | 30 | 82 | 118 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

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

TNTC - Too numerous to count

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

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

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Quality Control Report

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

Conoco Phillips COP Hampton 4M

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09091280
Lab Batch ID: R285380

Method Blank

RunID: K_091002B-5229668 Units: ug/L
Analysis Date: 10/02/2009 17:34 Analyst: LU_L

Samples in Analytical Batch:

| Lab Sample ID | Client Sample ID |
|---------------|------------------|
| 09091280-02A | MW-5 |
| 09091280-06A | MW-12 |
| 09091280-08A | MW-16 |
| 09091280-10A | Duplicate |

| Analyte | Result | Rep Limit |
|-----------------------------|--------|-----------|
| Benzene | ND | 1.0 |
| Ethylbenzene | ND | 1.0 |
| Toluene | ND | 1.0 |
| m,p-Xylene | ND | 2.0 |
| o-Xylene | ND | 1.0 |
| Xylenes, Total | ND | 1.0 |
| Surr: 1,2-Dichloroethane-d4 | 98.7 | 78-116 |
| Surr: 4-Bromofluorobenzene | 99.3 | 74-125 |
| Surr: Toluene-d8 | 97.3 | 82-118 |

Laboratory Control Sample (LCS)

RunID: K_091002B-5229667 Units: ug/L
Analysis Date: 10/02/2009 16:39 Analyst: LU_L

| Analyte | Spike Added | Result | Percent Recovery | Lower Limit | Upper Limit |
|-----------------------------|-------------|--------|------------------|-------------|-------------|
| Benzene | 20.0 | 22.2 | 111 | 74 | 123 |
| Ethylbenzene | 20.0 | 19.2 | 96.1 | 72 | 127 |
| Toluene | 20.0 | 19.6 | 97.9 | 74 | 126 |
| m,p-Xylene | 40.0 | 37.8 | 94.5 | 71 | 129 |
| o-Xylene | 20.0 | 19.4 | 97.2 | 74 | 130 |
| Xylenes, Total | 60.0 | 57.2 | 95.4 | 71 | 130 |
| Surr: 1,2-Dichloroethane-d4 | 50.0 | 49 | 97.9 | 78 | 116 |
| Surr: 4-Bromofluorobenzene | 50.0 | 50.2 | 100 | 74 | 125 |
| Surr: Toluene-d8 | 50.0 | 48.4 | 96.7 | 82 | 118 |

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

Sample Spiked: 09091280-06
RunID: K_091002B-5229670 Units: ug/L
Analysis Date: 10/02/2009 20:18 Analyst: LU_L

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

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

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Quality Control Report

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

Conoco Phillips COP Hampton 4M

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09091280
Lab Batch ID: R285380

| Analyte | Sample Result | MS Spike Added | MS Result | MS % Recovery | MSD Spike Added | MSD Result | MSD % Recovery | RPD | RPD Limit | Low Limit | High Limit |
|-----------------------------|---------------|----------------|-----------|---------------|-----------------|------------|----------------|------|-----------|-----------|------------|
| Benzene | 613 | 200 | 823 | 105 | 200 | 836 | 112 | 1.58 | 22 | 70 | 124 |
| Ethylbenzene | 15.9 | 200 | 204 | 93.8 | 200 | 191 | 87.7 | 6.18 | 20 | 76 | 122 |
| Toluene | 13.5 | 200 | 214 | 100 | 200 | 200 | 93.4 | 6.41 | 24 | 80 | 117 |
| m,p-Xylene | 21.0 | 400 | 401 | 95.0 | 400 | 382 | 90.3 | 4.78 | 20 | 69 | 127 |
| o-Xylene | ND | 200 | 201 | 101 | 200 | 194 | 97.1 | 3.54 | 20 | 84 | 114 |
| Xylenes, Total | 21.0 | 600 | 602 | 96.9 | 600 | 576 | 92.6 | 4.37 | 20 | 69 | 127 |
| Surr: 1,2-Dichloroethane-d4 | ND | 500 | 490 | 98.0 | 500 | 481 | 96.3 | 1.82 | 30 | 78 | 116 |
| Surr: 4-Bromofluorobenzene | ND | 500 | 508 | 102 | 500 | 494 | 98.9 | 2.60 | 30 | 74 | 125 |
| Surr: Toluene-d8 | ND | 500 | 486 | 97.2 | 500 | 476 | 95.3 | 2.01 | 30 | 82 | 118 |

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

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

TNTC - Too numerous to count

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

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

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*Sample Receipt Checklist
And
Chain of Custody*



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

Sample Receipt Checklist

| | | | |
|-------------------------|----------------------|---------------|----------------|
| Workorder: | 09091280 | Received By: | AMV |
| Date and Time Received: | 9/26/2009 9:30:00 AM | Carrier name: | Fedex-Priority |
| Temperature: | 2.0°C | Chilled by: | Water Ice |

- | | | | |
|--|---|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 1. Sample "Seep" was received at lab with 2 of the 3 vials broken. Only one vial remains. 2. Samples "MW-16 and MW-7" were received at lab with 1 of the three vials broken. Only two vials remain per sample. | | | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | VOA Vials Not Present <input type="checkbox"/> |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues: 1/2. Wrote "Limited sample volume" in the sample comments and notified PM.

Client Instructions:



SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 09091280 of 2
page 2

331790

Client Name: Tetra Tech / ConocoPhillips
Address: 6121 Indian School Rd Ste 200
City: Albuquerque State: NM Zip: 87110
Phone/Fax: 505.237.8440 Email: kelly.blanchard@tetrattech.com
Client Contact: Kelly Blanchard
Project Name/No.: HAZMAT Hampton #4M
Site Name: Aztec, NM

Site Location: ConocoPhillips
Invoice To: ConocoPhillips

Ph:
DATE TIME comp grab

| SAMPLE ID | DATE | TIME | comp | grab | matrix | bottle | size | pres. | Number of Containers | Requested Analysis |
|-----------|---------|------|------|------|--------|--------|------|-------|----------------------|--------------------|
| MW-1 | 9/24/09 | 1145 | | X | W | V | 40 | 1 | 3 | BTEX ONLY |
| MW-5 | 9/24/09 | 1500 | | X | W | V | 40 | 1 | 3 | |
| MW-7 | 9/24/09 | 1505 | | X | W | V | 40 | 1 | 3 | |
| MW-9 | 9/24/09 | 1120 | | X | W | V | 40 | 1 | 3 | |
| MW-11 | 9/24/09 | 1250 | | X | W | V | 40 | 1 | 3 | |
| MW-12 | 9/24/09 | 1530 | | X | W | V | 40 | 1 | 3 | |
| MW-15 | 9/24/09 | 1055 | | X | W | V | 40 | 1 | 3 | |
| MW-16 | 9/24/09 | 1545 | | X | W | V | 40 | 1 | 3 | |
| FW-1 | 9/24/09 | | | X | W | V | 40 | 1 | 3 | |
| Seep | 9/24/09 | 1500 | | X | W | V | 40 | 1 | 3 | |

Client/Consultant Remarks:

Laboratory remarks:

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

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 1 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

1. Relinquished by Sampler date 9/25/09 time 1450

3. Relinquished by: date time

5. Relinquished by: date 9/16/09 time 9:30

6. Received by Laboratory: Amanda Viernan

Received by: date time

Received by: date time

Received by: date time

Received by: date time

Received by: date time

☒ 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 Worksheet No.

331796

page 2 of 2

Client Name: Tetra Tech / ConacoPhillips
Address: 6121 Indian School Rd Ste 200
City Albuquerque State NM Zip 87110
Phone/Fax: 505.637.8440 505.237.8656
Client Contact: Kelly Blanchard Email: kelly.blanchard@tetratech.com
Project Name/No.: Hampton #4M

Site Name: Artec, NM
Site Location: ConacoPhillips
Invoice To: ConacoPhillips

| SAMPLE ID | DATE | TIME | comp | grab |
|------------|---------|------|------|------|
| Duplicate | 9/24/09 | 1600 | | X |
| Trip Blank | 9/24/09 | 1605 | | |

| matrix | bottle | size | pres. | Number of Containers | Requested Analysis |
|---|--|--|---------------------------------|----------------------|--------------------|
| W=water S=soil O=oil A=air SL=siludge E=encore X=other | P=plastic G=glass V=vial X=other | I=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other | 1=HCl 2=HNO3 3=H2SO4 X=other | 3 | BTEX ONLY |
| W | V | 40 | 1 | 3 | |
| W | V | 40 | 1 | 2 | |

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☒ Y ☒ N
Ice? ☒ Y ☒ N
Temp: 20

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other

Special Reporting Requirements Results: ☒ PDF ☐ Email ☐ Fax
Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP

Special Detection Limits (specify):

1. Relinquished by Sampler:
3. Relinquished by:
5. Relinquished by:

2. Received by:
4. Received by:
6. Received by Laboratory:

PM review (initial):

Rush TAT requires prior notice

☒ 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

Amanda Vignair

ATTACHMENTS

Hampton #4M Site Diagram

