

3R - 069

2012 AGWMR

02/19/2013



**CONESTOGA-ROVERS
& ASSOCIATES**

6121 Indian School Rd., NE Suite 200
Albuquerque, NM, USA 87110
Telephone: (505) 884-0672 Fax: (505) 884-4932
<http://www.craworld.com>

February 19, 2013

Reference No. 074925, 074927, 074928
074929, 074932, 074934
075038

Mr. Glenn von Gonten
New Mexico Oil Conservation Division
1220 South Saint Francis Dr.
Santa Fe, NM 87505

Dear Mr. von Gonten:

Re: Groundwater Monitoring Reports - 2012

Enclosed, please find a copy of the reports listed below compiled by Conestoga-Rovers and Associates, Inc.

- ✓ 3R434 1. Farmington B Com No. 1E Annual Groundwater Monitoring Report - September 2012
- ✓ 3R434 2. Faye Burdette No. 1 Annual Groundwater Monitoring Report - September 2012
- ✓ 3R469 3. Hampton No. 4M Annual Groundwater Monitoring Report - September 2012
- ✓ 3R431 4. Howell K No. 1 Annual Groundwater Monitoring Report - September 2012
- ✓ 3R471 5. Johnston Federal No. 4 Metering Station Annual Groundwater Monitoring Report - September 2012
- ✓ 3R426 6. San Juan 27-5 No. 34A Annual Groundwater Monitoring Report - September 2012
- 3R428 7. Sategna No. 2E Quarterly Groundwater Monitoring Report - September 2012

If you have any questions or require additional information, please contact me at (505) 884-0672 or keblanchard@craworld.com.

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES

Kelly E. Blanchard

Kelly E. Blanchard
Project Manager

JP/cjg/1
Encl.

cc: Brandon Powell, NMOCD
Terry Lauck, ConocoPhillips (electronic only)

Equal
Employment Opportunity
Employer



SEPTEMBER 2012 ANNUAL GROUNDWATER MONITORING REPORT

**CONOCOPHILLIPS HAMPTON No. 4M
SAN JUAN COUNTY, NEW MEXICO
API# 30-045-25810
NMOCD# 3R-069**

Prepared For:

**CONOCOPHILLIPS COMPANY
Risk Management and Remediation
420 South Keeler Avenue
Bartlesville, OK, 74004**

**FEBRUARY 2012
REF. NO. 074927 (3)**
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1.0 INTRODUCTION

This report details the results of annual groundwater monitoring conducted by Conestoga-Rovers & Associates (CRA) in September 2012 at the ConocoPhillips Company (ConocoPhillips) Hampton No. 4M site (Site) located in Unit Letter N, Section 13, Township 30N, Range 11W, of San Juan County, New Mexico.

The Site is located on federal land approximately ¼ mile south of Hampton Arroyo and 2 miles southeast of Aztec, New Mexico off Hwy 173 on Hampton Canyon Road. The Site consists of a gas well and associated equipment and installations. The location and general features of the Hampton No. 4M site are presented as **Figure 1** and **Figure 2**, respectively.

1.1 BACKGROUND

The Hampton No. 4M gas well was spudded on November 22, 1983 by Southland Royalty Company (Southland). Burlington Resources, Inc. (Burlington) acquired Southland in January of 1996; Burlington was subsequently acquired by ConocoPhillips in March of 2006.

The Public Service Company of New Mexico (PNM) operated a dehydration unit and an unlined earthen pit at the site from 1990 to 1996. Closure of the dehydrator pit revealed impacted soil and groundwater in 1996. While drilling a monitor well upgradient of the former pit in January 1997, impacted groundwater was encountered adjacent to Burlington equipment. A groundwater seep was discovered in April 1997. PNM, Burlington, and the New Mexico Oil Conservation Division (NMOCD) agreed on the installation of a collection trench. In March 2000, the NMOCD named Burlington responsible party of impacts upgradient of the pit, while PNM was named responsible party of impacts downgradient of the pit. Burlington excavated approximately 120 cubic yards of impacted soil from the vicinity of MW-13 and MW-14 in mid-2000, destroying both wells in the process. Maps outlining the excavation area for these activities, as well as a former excavation conducted by Burlington in December 1997 are provided in **Appendix A**. Tetra Tech Inc. (Tetra Tech) began conducting monitoring events at the Site in November 2007. 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. The groundwater seep is also part of the current program to monitor natural attenuation at the Site. On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech to CRA of Albuquerque, NM. A generalized geologic cross section for the Site is provided as **Figure 3**. Detailed Site history is presented in **Table 1**.

2.0 SAMPLING METHODOLOGY AND ANALYTICAL RESULTS

2.1 GROUNDWATER SAMPLING METHODOLOGY

Groundwater Elevation Measurements

On September 25, 2012 groundwater elevation measurements were collected from Monitor Wells MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15, MW-16, and TMW-1 using an oil/water interface probe. Groundwater elevations are detailed in Table 2. A groundwater potentiometric surface map is presented as Figure 4. Based on September 2012 monitoring event data, groundwater flow is to the north and is consistent with historical records at this Site.

Groundwater sampling

Monitor Wells MW-1, MW-5, MW-9, MW-11, MW-12, and MW-15 were sampled on September 26, 2012. Monitor Wells MW-7, TMW-1, and the groundwater seep were dry at the time of the 2012 sampling event. MW-16 was not sampled due to the presence of approximately 0.8 feet of light non-aqueous phase liquid (LNAPL).

Approximately three well volumes were purged from each monitor well with a 1.5 inch dedicated polyethylene disposable bailer prior to sampling. Purge water was disposed of in the Site produced water tank. Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain-of-custody documentation to Pace Analytical Services, Inc. of Lenexa, KS. Samples were analyzed for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B. CRA groundwater sampling field forms are included as Appendix B.

2.2 GROUNDWATER ANALYTICAL RESULTS

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use. Exceedences of NMWQCC groundwater quality standards in Site monitor wells are discussed below. Results are summarized in **Table 3**. The corresponding laboratory analytical report for the September 2012 sampling event is included as **Appendix C**.

- **Benzene**
 - The NMWQCC standard for benzene is 0.010 milligrams per liter (mg/L). The groundwater sample collected from MW-5 during September 2012 contained benzene at a concentration of 0.0898 mg/L; the groundwater sample collected from MW-12 contained a concentration of 0.617 mg/L.
- **Total Xylenes**
 - The NWQCC standard for total xylenes is 0.620 mg/L. The groundwater sample collected from MW-5 contained total xylenes at a concentration of 3.59 mg/L.

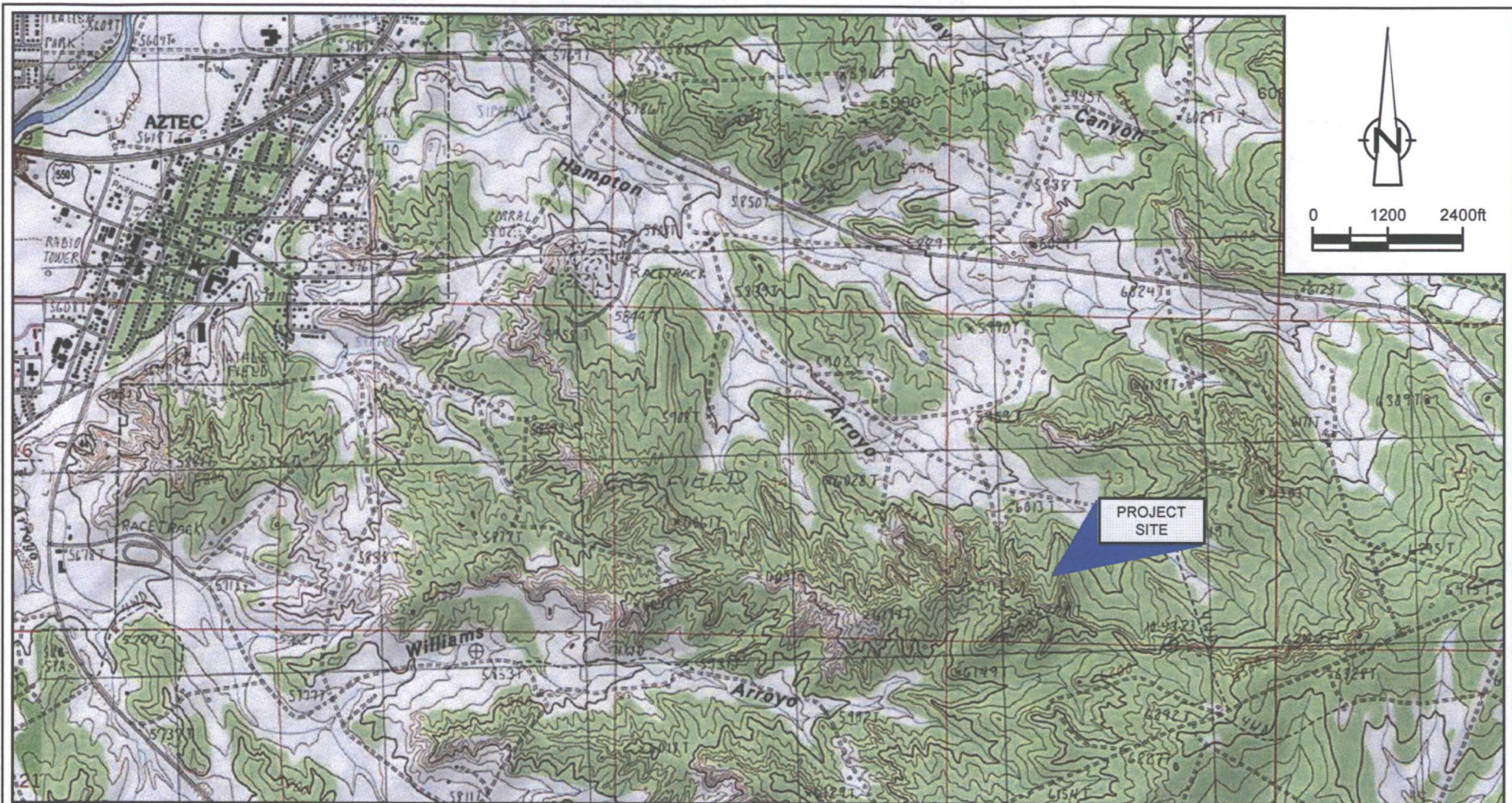
3.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater samples collected from MW-5 and MW-12 have consistently exceeded NMWQCC groundwater quality standards for BTEX constituents since monitoring began at the Site. LNAPL was encountered in MW-16 on April 25, June 6, and September 26, 2012. On each occasion CRA bailed one quarter to one half gallon of product from MW-16 and replaced oil absorbent socks.

CRA recommends continued annual groundwater sampling and quarterly free product removal at the Site. The seep, which has been dry during the past two annual sampling events, will be checked quarterly for the presence of water. Once all monitored groundwater quality parameters approach compliance levels, CRA will begin sampling on a quarterly basis. When eight consecutive quarters of data within compliance levels has been achieved, remediation Site closure will be requested.

CRA also recommends that TMW-1, which was dry during the 2012 annual sampling event, be replaced with a deeper, permanent monitor well in order to better delineate the Site.

FIGURES



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

LAT/LONG: 36.8089° NORTH, 107.9463° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO WEST

Figure 1

SITE LOCATION MAP
HAMPTON No. 4M SITE
COUNTY, NEW MEXICO
ConocoPhillips Company

SECTION 13, T30N-R11W, SAN JUAN





LEGEND

-  Monitor Well Location
-  Seep
-  El Paso Gas Pipeline

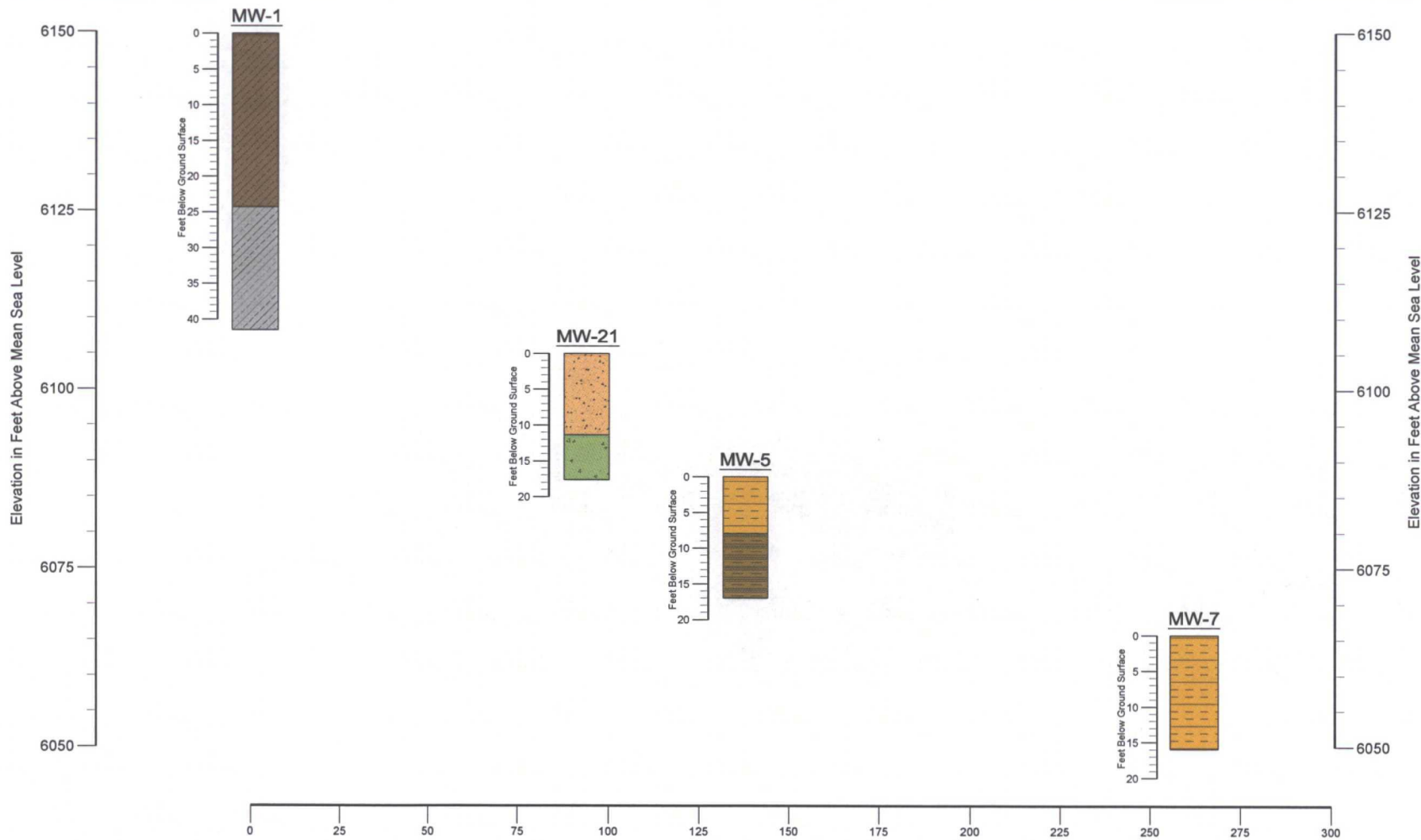
LAT/LONG: 36.8089° NORTH, 107.9463° WEST
 COORDINATE: NAD83 DATUM, U.S. FOOT
 STATE PLANE ZONE - NEW MEXICO WEST

Figure 2

SITE MAP

HAMPTON No. 4M SITE
SECTION 13, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company





Lithology Index

	Brown Weathered Sandstone		Coarse Grained Sand
	Gray Weathered Sandstone		Silty Sand
	Very Coarse Grained Sand		Clayey Sand

Figure 3
GEOLOGICAL CROSS SECTION
HAMPTON No. 4M SITE
SECTION 13, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company





LEGEND

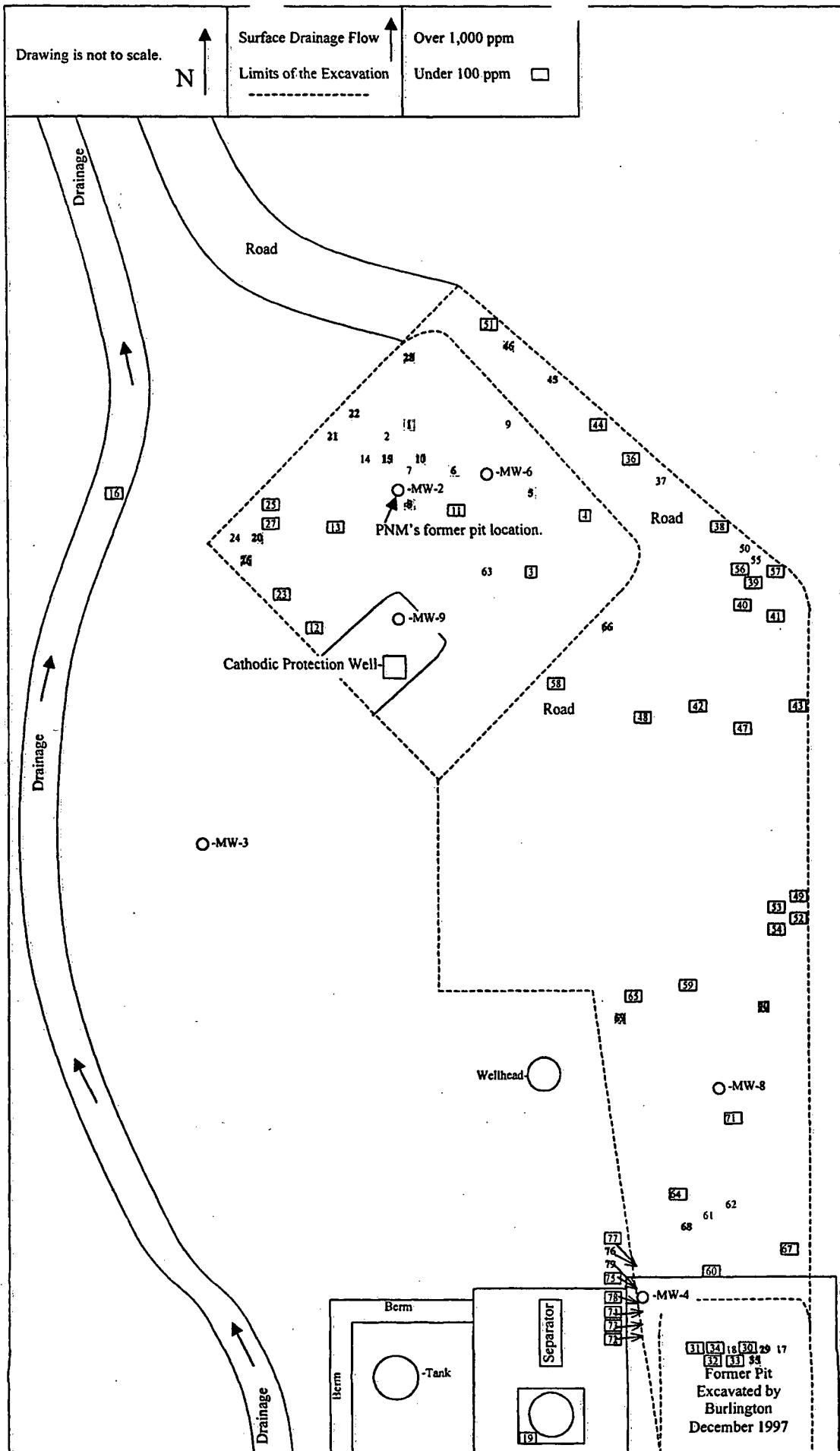
- Monitor Well Location
- Seep
- El Paso Gas Pipeline
- (6105.54) Groundwater Elevation, Ft
- 6100 Groundwater Elevation Contour, Ft
- Groundwater Flow Direction



SEPTEMBER 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP
 HAMPTON No. 4M SITE
 SECTION 13, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO
 ConocoPhillips Company

LAT/LONG: 36.8089° NORTH, 107.9463° WEST
 COORDINATE: NAD83 DATUM, U.S. FOOT
 STATE PLANE ZONE - NEW MEXICO WEST

Figure 4



TABLES

TABLE 1

**SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY, NM**

<i>Date</i>	<i>Event/Action</i>	<i>Description/Comments</i>
11/22/1983	Well Spudded	Hampton No. 4M spudded by Southland Royalty Company (Southland Royalty).
3/1/1990	Operator Change	Southland Royalty 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 northernmost portion of the site as part of the contract.
6/30/1995	Transfer of Dehydration Equipment Ownership	Williams Field Services purchased the dehydration equipment from PNM.
1/2/1996	Transfer of Well Ownership	Burlington Resources completed the acquisition of Southland Royalty Company.
4/23/1996	Site Assessment	PNM discovered potential hydrocarbon contamination beneath PNM's dehydrator discharge pit during a site assessment. PNM subsequently began pit closure work.
12/16/1996	Site Assessment	PNM discovered hydrocarbon-impacted groundwater 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. Total BTEX in groundwater was 20,620 parts per billion (ug/L) and benzene was 3,840 ug/L.
1/13/1997	NMOCD Notified of Contamination	PNM notified NMOCD in writing of the discovery of groundwater contamination at the site.
1/28/1997	LNAPL Discovered	PNM gauged Monitor Well MW-2 and discovered approximately 4 feet of LNAPL.
1/31/1997	Monitor Well Installation	PNM installed two monitor wells upgradient from PNM's former pit. Impacted groundwater was discovered in the well adjacent to Burlington's equipment.
1/31/1997	Monitor Well Installation	PNM installed MW-3 and MW-4.
4/14/1997	Seep Discovered	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.
4/16/1997	On-Site Meeting	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.
4/17/1997	Collection Trench Constructed	Burlington constructed a collection trench between the seep and the wellhead. A sandstone shelf was encountered 6 to 8 feet bgs. Black to grey saturated soil was found above the sandstone. Hydrocarbon vapors were monitored during construction of the trench with a photoionization detector (PID). PID readings were between 1,000 - 2,000 ppm.
4/30/1997	Site Assessment	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. Burlington subsequently excavated 9 to 10 test holes in the vicinity of the well pad. No hydrocarbon impacts were found in any of the test holes.
6/05/1997 through 6/6/1997	Monitor Well Installation	Burlington advanced 7 boreholes around the well pad. Each of the 7 boreholes was subsequently completed as a temporary monitor well.
8/1/1997	NMOCD Letter Issued	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.

TABLE 1

**SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY, NM**

<i>Date</i>	<i>Event/Action</i>	<i>Description/Comments</i>
November 1997	Recovery Well System Installation	PNM installed an LNAPL recovery well system adjacent to PNM's former pit in November 1997 (exact dates unknown).
December 1997 - 2000	Pit Excavations	Hydrocarbon impacted soil was excavated from December 1997 to 2000 at various locations to the depth of groundwater. Potassium permanganate was applied to the excavations.
January 1998	LNAPL Recovery Initiated	PNM initiated LNAPL recovery (exact date unknown).
2/23/1998	Letter From Downgradient Land Owner	Mr. J. Burton Everett, the owner of property downgradient of the Site, wrote a letter to the NMOCD, expressing concern over the migration of hydrocarbons onto his property.
3/13/1998	NMOCD Letter Issued	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.
April/May 1998	Monitor Well Installation	LNAPL was discovered upgradient from the dehydration pit and Burlington installed two additional monitor wells.
10/28/1998	Burlington Responds to NMOCD Letter	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.
November 1998	LNAPL Recovery Efforts Terminated	PNM's LNAPL recovery efforts were terminated (exact date unknown) as a result of Burlington's removal of PNM's system during excavation activities.
4/14/1999	Seep Sampled	NMOCD sampled a groundwater seep to the northwest of the well pad. The analytical results revealed benzene in excess of NMWQCC groundwater quality standards.
3/24/2000	Order No. R-11134-A Issued to Burlington and PNM	NMOCD issued Order No. R-11134-A to Burlington and PNM. The Order:
		1) denied the application by PNM for rescinding the prior directive,
		2) declared Burlington the responsible party for any contamination south and upgradient to 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 groundwater 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.
Second Quarter 2000	Pit Excavation	Burlington excavated approximately 120 cubic yards of hydrocarbon-impacted soil to groundwater depth in the vicinity of MW-13 and MW-14 in mid-2000 (exact dates unknown). Both wells were destroyed in the process. A shale confining layer was discovered at the bottom of the excavation. The excavated soil was landfarmed on a nearby wellpad lease.

TABLE 1

**SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY, NM**

<i>Date</i>	<i>Event/Action</i>	<i>Description/Comments</i>
Third Quarter 2001	Excavation Backfilled	Burlington backfilled the mid-2000 excavation area with clean fill.
3/31/2006	Operator Change	ConocoPhillips Company completed the acquisition of Burlington Resources.
11/8/2007	Groundwater Monitoring	Tetra Tech conducted quarterly groundwater monitoring activities.
1/17/2008	Groundwater Monitoring	Tetra Tech conducted quarterly groundwater monitoring activities.
3/19/2008	Groundwater Monitoring	Tetra Tech conducted quarterly groundwater monitoring activities.
7/22/2008	Groundwater Monitoring	Tetra Tech conducted quarterly groundwater monitoring activities.
10/23/2008	Groundwater Monitoring	Tetra Tech conducted quarterly groundwater monitoring activities.
1/29/2009	Groundwater Monitoring	Tetra Tech conducted quarterly groundwater monitoring activities.
9/24/2009	Groundwater Monitoring	Tetra Tech completed annual groundwater monitoring activities.
9/28/2010	Groundwater Monitoring	Tetra Tech completed annual groundwater monitoring activities. LNAPL was encountered in MW-16. Tetra Tech purged LNAPL from the well and placed two absorbent socks in MW-16.
12/15/2010	Assessment of MW-16	Tetra Tech returned to the Site to check the status of the absorbent socks in MW-16. The socks were saturated. Tetra Tech purged approximately 3.5 gallons of LNAPL and water from the well and placed three additional absorbent socks in MW-16.
6/15/2011	Transfer of Site Consulting Responsibilities	Site consulting responsibilities were transferred from Tetra Tech to Conestoga-Rovers & Associates (CRA), Inc. of Albuquerque, NM.
10/4/2011 and 10/11/2011	Groundwater Monitoring	CRA completed annual groundwater monitoring activities. Oil absorbent socks in MW-16 were found saturated and were replaced on 10/4/11. The new socks were found to be saturated on 10/11/11, and were not replaced due to the rapidity of saturation. One gallon of LNAPL was recovered during the sampling event.
4/25/2012	Assessment of MW-16	CRA recovered approximately one half gallon of product from MW-16 and placed three oil absorbent socks in the well.
6/6/2012	Assessment of MW-16	CRA recovered approximately one quarter gallon of product from MW-16 and replaced oil absorbent socks.
9/25/2012 and 9/26/2012	Groundwater Monitoring	CRA completed annual groundwater monitoring activities. One half gallon of LNAPL was recovered from MW-16 during the sampling event and the oil absorbent socks were replaced.

TABLE 2

**MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY**

<i>Monitor Well</i>	<i>TOC Elevation (ft AMSL)</i>	<i>Sample Date</i>	<i>Depth to Water (ft)</i>	<i>GW Elevation (ft AMSL)</i>
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
		9/28/2010	43.19	6106.23
		10/11/2011	43.55	6105.87
		9/25/2012	43.88	6105.54
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	6074.3
		1/21/2009	16.04	6074.79
		9/24/2009	16.89	6073.94
		9/28/2010	16.55	6074.28
		10/11/2011	17.39	6073.44
		9/25/2012	17.46	6073.37
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
		9/28/2010	21.24	6045.67
		10/11/2011	DRY	--
		9/25/2012	DRY	--
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	6099.5
		1/21/2009	22.85	6099.67
		9/24/2009	23.64	6098.88
		9/28/2010	23.70	6098.82
		10/11/2011	24.03	6098.49
		9/25/2012	24.61	6097.91

TABLE 2

**MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY**

<i>Monitor Well</i>	<i>TOC Elevation (ft AMSL)</i>	<i>Sample Date</i>	<i>Depth to Water (ft)</i>	<i>GW Elevation (ft AMSL)</i>
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
		9/24/2009	56.02	5959.73
		9/28/2010	56.06	5959.69
		10/11/2011	56.21	5959.54
MW-12	6109.02	9/25/2012	56.41	5959.34
		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
		9/28/2010	21.27	6087.75
MW-15	No survey - DTW only	10/11/2011	21.58	6087.44
		9/25/2012	22.14	6086.88
		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 - Theoretical DTW only	9/28/2010	18.25	NA
		10/11/2011	18.65	NA
		9/25/2012	18.97	NA
		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
		9/28/2010	25.41	NA
		10/11/2011	28.26	NA
		9/25/2012	26.74	NA

TABLE 2

**MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY**

<i>Monitor Well</i>	<i>TOC Elevation (ft AMSL)</i>	<i>Sample Date</i>	<i>Depth to Water (ft)</i>	<i>GW Elevation (ft AMSL)</i>
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
		9/28/2010	19.11	NA
		10/11/2011	19.39	NA
		9/25/2012	DRY	NA

Notes:

ft = feet

AMSL = Above mean sea level

DTW = Depth to water

NA = Not available

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
MW-1	MW-1	10/30/1997	(orig)	0.0024	0.0023	< 0.0002	0.0011
	MW-1	1/12/1998	(orig)	0.0043	0.0033	< 0.0002	0.001
	MW-1	4/14/1998	(orig)	0.001	0.0013	< 0.0005	< 0.0005
	MW-1	7/1/1998	(orig)	0.0013	0.001	< 0.0005	0.0037
	MW-1	10/5/1998	(orig)	< 0.001	< 0.001	< 0.001	< 0.003
	MW-1	1/27/1999	(orig)	0.0008	0.0009	< 0.0005	< 0.0015
	MW-1	7/12/1999	(orig)	0.0011	0.0005	< 0.0005	< 0.0005
	MW-1	9/24/2003	(orig)	0.0009 J	0.001	<	0.0004 J
	MW-1	12/15/2003	(orig)	0.0011	0.0009 J	<	<
	MW-1	3/15/2004	(orig)	<	<	<	<
	MW-1	6/21/2004	(orig)	<	<	<	<
	MW-1	9/29/2004	(orig)	<	<	<	<
	MW-1	12/31/2004	(orig)	<	0.0009 J	<	0.0033 J
	MW-1	3/22/2005	(orig)	<	0.0003 J	<	<
	MW-1	10/24/2005	(orig)	<	<	<	<
	MW-1	12/12/2005	(orig)	<	0.0007 J	<	0.0006 J
	MW-1	3/20/2006	(orig)	0.0011	0.0009 J	<	0.0006 J
	MW-1	6/21/2006	(orig)	0.0003 J	0.0014	0.0004 J	0.0018 J
	MW-1	10/18/2006	(orig)	<	0.0002	0.0002	0.0013
	MW-1	12/12/2006	(orig)	<	0.0002	0.0002	0.0014
	MW-1	3/26/2007	(orig)	< 0.0003	0.0003 J	0.0002 J	0.0004 J
	MW-1	6/26/2007	(orig)	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-1	11/8/2007	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-1	1/15/2008	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-1	3/19/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	7/22/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	10/23/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	1/21/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	9/24/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	MW-1	9/28/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-002	10/4/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-1	9/26/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
MW-5	MW-5	10/29/1997	(orig)	5.934	10.024	0.709	8.188
	MW-5	1/12/1998	(orig)	7.521	11.213	0.779	8.436
	MW-5	4/14/1998	(orig)	7	11	0.72	7.8
	MW-5	7/1/1998	(orig)	6.5	10	0.78	7.5
	MW-5	10/5/1998	(orig)	6.8	8.4	0.74	6.9
	MW-5	11/9/1998	(orig)	6.2	8.2	0.67	6.5
	MW-5	1/27/1999	(orig)	6.4	8.9	0.66	6.7
	MW-5	5/5/1999	(orig)	6.8	9.8	0.9	7.8
	MW-5	5/26/1999	(orig)	6.6	10	0.65	8.1
	MW-5	7/12/1999	(orig)	6.3	10	0.75	8.8
	MW-5	8/17/1999	(orig)	5.4	9.8	0.67	7.5
	MW-5	8/17/1999	(Duplicate)	5.9	8.9	0.5	6.2
	MW-5	10/21/1999	(orig)	5.2	9.6	0.65	6.9
	MW-5	1/27/2000	(orig)	4.7	10	0.68	7.4
	MW-5	6/13/2000	(orig)	8.4	19	1.7	22
	MW-5	3/29/2001	(orig)	3.89	9.6	0.64	7.73
	MW-5	6/26/2001	(orig)	3.8	11	0.7	9
	MW-5	9/18/2001	(orig)	4.1	11	0.76	10
	MW-5	12/18/2001	(orig)	3.2	9.7	0.6	7.8
	MW-5	3/22/2002	(orig)	3.5	10	0.83	8.5
	MW-5	6/28/2002	(orig)	3.7	12	0.76	10
	MW-5	9/23/2002	(orig)	3	9.8	0.64	8.3
	MW-5	12/31/2002	(orig)	2.9	8.9	0.58	7.3
	MW-5	3/27/2003	(orig)	1.22	4.87	0.487	6.01
	MW-5	6/27/2003	(orig)	2.04	8.55	0.64	8.05
	MW-5	9/24/2003	(orig)	2.11	9.09	0.7	9.2
	MW-5	12/15/2003	(orig)	2.15	9.24	0.72	8.81
	MW-5	6/21/2004	(orig)	1.61	8.74	0.64	8.22
	MW-5	9/29/2004	(orig)	1.71	7.25	0.67	8.09
	MW-5	12/31/2004	(orig)	1.82	9.15	0.73	9.03
	MW-5	3/15/2005	(orig)	1.37	8.1	0.66	8.71
	MW-5	3/22/2005	(orig)	0.42	1.42	0.11	1.16
	MW-5	10/24/2005	(orig)	1.07	6.66	0.61	7.62
	MW-5	12/12/2005	(orig)	0.9	5.93	0.52	6.28
	MW-5	3/20/2006	(orig)	0.82	6.27	0.51	6.04
	MW-5	6/21/2006	(orig)	0.93	6.11	0.58	6.69
	MW-5	10/18/2006	(orig)	0.69	5.14	0.5	5.87
	MW-5	12/18/2006	(orig)	0.64	5.09	0.5	5.61
	MW-5	3/26/2007	(orig)	0.66	6.47	0.53	5.45
	MW-5	6/26/2007	(orig)	0.74	8.07	0.64	7.32
	MW-5	11/8/2007	(orig)	0.41	4.8	0.39	5
	MW-5	1/17/2008	(orig)	0.44	6.4	0.51	6.1
	MW-5	3/19/2008	(orig)	0.37	2.9	0.24	2.57
	MW-5	7/22/2008	(orig)	0.34	6.1	0.55	6.4
	MW-5	10/23/2008	(orig)	0.27	6.2	0.44	6.3
	MW-5	1/21/2009	(orig)	0.25	3.8	0.51	5.2
	MW-5	9/24/2009	(orig)	0.19	4.3	0.47	5.1
	MW-5	9/28/2010	(orig)	0.13	2.4	0.6	5.2
	GW-074927-100411-CM-006	10/12/2011	(orig)	0.0652	1.22	0.443	3.21
	GW-074927-100411-CM-007	10/12/2011	(Duplicate)	0.0796	1.22	0.488	3.46
	GW-074927-092612-CM-MW-5	9/26/2012	(orig)	0.0898	0.626	0.551	3.59

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
MW-7	MW-7	1/12/1998	(orig)	0.78	0.246	0.258	3.942
	MW-7	4/14/1998	(orig)	0.82	0.34	0.19	2.45
	MW-7	7/1/1998	(orig)	0.95	0.44	0.2	3.02
	MW-7	10/5/1998	(orig)	1.6	0.93	0.18	1.53
	MW-7	11/9/1998	(orig)	1.8	1	0.16	1.24
	MW-7	1/27/1999	(orig)	2.1	1	0.16	1.05
	MW-7	5/5/1999	(orig)	0.21	0.0029	0.03	0.147
	MW-7	5/26/1999	(orig)	0.19	0.0074	0.032	0.15
	MW-7	7/12/1999	(orig)	0.13	0.0072	0.022	0.1013
	MW-7	10/21/1999	(orig)	0.26	0.011	0.015	0.089
	MW-7	1/27/2000	(orig)	0.67	0.58	0.054	0.68
	MW-7	6/17/2000	(orig)	0.42	1.1	0.075	1.4
	MW-7	3/29/2001	(orig)	0.83	0.15	0.32	1.79
	MW-7	6/26/2001	(orig)	0.54	0.33	0.25	1.41
	MW-7	9/18/2001	(orig)	0.87	0.56	0.32	2.02
	MW-7	12/18/2001	(orig)	0.4	0.03	0.16	0.885
	MW-7	3/22/2002	(orig)	0.18	<	0.078	0.26
	MW-7	6/28/2002	(orig)	0.089	0.001	0.041	0.079
	MW-7	9/23/2002	(orig)	0.08	0.003	0.031	0.01889
	MW-7	12/31/2002	(orig)	0.16	0.0022	0.074	0.0315
	MW-7	3/27/2003	(orig)	0.195	0.0004	0.0442	0.109
	MW-7	6/27/2003	(orig)	0.3	0.0014 J	0.117	0.4616
	MW-7	9/24/2003	(orig)	0.09	0.012	0.002	0.694
	MW-7	3/15/2004	(orig)	0.056	0.001 J	0.006	0.003
	MW-7	6/21/2004	(orig)	0.18	<	0.055	0.058 J
	MW-7	9/29/2004	(orig)	0.163	0.0009 J	0.0545	0.0698
	MW-7	12/15/2004	(orig)	0.15	0.004 J	0.115	0.549
	MW-7	12/31/2004	(orig)	0.094	0.003 J	0.01	0.024 J
	MW-7	3/22/2005	(orig)	0.0208	<	0.0024	0.0048
	MW-7	10/24/2005	(orig)	0.0652	0.0007 J	0.002	0.0027 J
	MW-7	12/12/2005	(orig)	0.0662	0.001 J	0.0087	0.0085 J
	MW-7	3/20/2006	(orig)	0.072	<	0.0126	0.0169
	MW-7	6/21/2006	(orig)	0.0899	0.0106	0.0048	0.0145
	MW-7	10/18/2006	(orig)	0.0319	0.0004 J	0.0018	0.0041
	MW-7	12/12/2006	(orig)	0.0294	0.0015	0.0031	0.0057
	MW-7	3/26/2007	(orig)	0.0115	0.001	0.0006 J	0.0008 J
	MW-7	6/26/2007	(orig)	0.056	0.0004 J	0.0177	0.0013
	MW-7	11/8/2007	(orig)	0.044	< 0.0007	0.002	< 0.0008
	MW-7	1/17/2008	(orig)	0.017	< 0.0007	0.003	< 0.0008
	MW-7	3/19/2008	(orig)	0.005	< 0.005	< 0.005	< 0.005
	MW-7	7/22/2008	(orig)	0.032	< 0.005	0.012	0.007
	MW-7	10/23/2008	(orig)	0.017	< 0.005	< 0.005	< 0.005
	MW-7	1/21/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-7	9/24/2009	(orig)	0.0037	< 0.001	< 0.001	< 0.001
	MW-7	9/28/2010	(orig)	0.0013	< 0.001	0.0023	< 0.001
	MW-7	10/11/2011	No sample collected; well dry.				
	MW-7	9/26/2012	No sample collected; well dry.				

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
MW-9	MW-9	7/1/1998	(orig)	0.012	< 0.001	< 0.001	< 0.003
	MW-9	10/5/1998	(orig)	0.0008	< 0.0005	< 0.0005	0.0022
	MW-9	11/9/1998	(orig)	0.073	< 0.0005	0.0022	0.0016
	MW-9	1/27/1999	(orig)	0.12	< 0.0005	0.0025	0.0018
	MW-9	5/5/1999	(orig)	0.12	< 0.0005	0.0016	0.0008
	MW-9	5/26/1999	(orig)	0.14	< 0.0005	0.0015	< 0.0005
	MW-9	5/26/1999	(Duplicate)	0.29	< 0.0005	0.0006	< 0.0015
	MW-9	7/12/1999	(orig)	0.32	< 0.0005	0.0006	< 0.0015
	MW-9	8/17/1999	(orig)	0.13	<	<	<
	MW-9	10/21/1999	(orig)	< 0.0005	0.0019	< 0.0005	0.0025
	MW-9	1/27/2000	(orig)	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	MW-9	6/13/2000	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-9	3/29/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-9	6/26/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-9	9/18/2001	(orig)	<	<	<	<
	MW-9	12/18/2001	(orig)	<	<	<	<
	MW-9	3/22/2002	(orig)	<	<	<	<
	MW-9	6/28/2002	(orig)	<	<	<	<
	MW-9	9/23/2002	(orig)	0.0004 J	<	<	<
	MW-9	3/27/2003	(orig)	<	<	<	<
	MW-9	6/27/2003	(orig)	0.0005 J	<	<	<
	MW-9	9/24/2003	(orig)	<	<	<	<
	MW-9	12/15/2003	(orig)	<	<	<	<
	MW-9	3/15/2004	(orig)	<	<	<	<
	MW-9	6/21/2004	(orig)	<	0.0004 J	<	0.0007 J
	MW-9	9/29/2004	(orig)	<	<	<	<
	MW-9	3/22/2005	(orig)	<	<	<	<
	MW-9	6/23/2005	(orig)	<	0.0003 J	<	<
	MW-9	3/20/2006	(orig)	<	<	<	<
	MW-9	6/21/2006	(orig)	<	<	<	<
	MW-9	10/18/2006	(orig)	<	<	<	0.0003 J
	MW-9	12/12/2006	(orig)	0.0003 J	0.0007 J	0.0003 J	0.0012 J
	MW-9	3/26/2007	(orig)	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-9	6/26/2007	(orig)	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-9	11/8/2007	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-9	1/17/2008	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-9	3/19/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	7/22/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	10/23/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	1/21/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	9/24/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	MW-9	9/28/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-004	10/4/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-9	9/26/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003

TABLE 3
GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

<i>Well ID</i>	<i>Sample ID</i>	<i>Date</i>	<i>Sample Type</i>	<i>Benzene (mg/L)</i>	<i>Toluene (mg/L)</i>	<i>Ethylbenzene (mg/L)</i>	<i>Xylenes (total) (mg/L)</i>
MW-11	MW-11	1/27/1999	(orig)	< 0.0005	0.0025	0.0007	0.0131
	MW-11	5/5/1999	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0015
	MW-11	5/26/1999	(orig)	0.0008	0.0017	< 0.0005	0.0011
	MW-11	10/21/1999	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0015
	MW-11	1/27/2000	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-11	6/13/2000	(orig)	< 0.0005	< 0.0005	< 0.0005	0.0009
	MW-11	3/29/2001	(orig)	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	MW-11	6/26/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-11	9/18/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-11	12/18/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-11	12/19/2001	(orig)	<	<	<	<
	MW-11	12/20/2001	(orig)	<	<	<	<
	MW-11	12/21/2001	(orig)	<	<	<	<
	MW-11	12/22/2001	(orig)	<	<	<	<
	MW-11	5/24/2003	(orig)	<	<	<	<
	MW-11	6/27/2003	(orig)	0.0004 J	0.0003 J	<	0.0004 J
	MW-11	9/24/2003	(orig)	<	<	<	<
	MW-11	12/15/2003	(orig)	0.0005 J	<	<	<
	MW-11	3/15/2004	(orig)	<	<	<	<
	MW-11	6/21/2004	(orig)	<	<	<	0.0005 J
	MW-11	9/29/2004	(orig)	<	<	<	<
	MW-11	12/31/2004	(orig)	<	<	<	<
	MW-11	3/22/2005	(orig)	<	<	<	<
	MW-11	10/24/2005	(orig)	<	<	<	<
	MW-11	12/12/2005	(orig)	<	0.0003 J	<	<
	MW-11	3/20/2006	(orig)	<	<	<	<
	MW-11	6/21/2006	(orig)	<	0.0003 J	<	0.0008 J
	MW-11	10/18/2006	(orig)	<	0.0003 J	0.0004 J	0.0012 J
	MW-11	12/12/2006	(orig)	<	<	<	0.0003 J
	MW-11	3/26/2007	(orig)	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-11	6/26/2007	(orig)	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-11	11/8/2007	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-11	1/17/2008	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-11	3/19/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	7/22/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	10/23/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	1/21/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	9/24/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	MW-11	9/28/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-005	10/11/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-11	9/26/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003

TABLE 3
GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
MW-12	MW-12	5/5/1999	(orig)	0.79	0.84	0.26	2.88
	MW-12	5/5/1999	(Duplicate)	1.2	13	5.1	68
	MW-12	5/26/1999	(orig)	1.9	0.82	0.2	1.72
	MW-12	5/26/1999	(Duplicate)	1.8	0.64	0.16	1.6
	MW-12	7/12/1999	(orig)	4.5	0.76	0.4	3.1
	MW-12	7/12/1999	(Duplicate)	4.6	0.73	0.39	3.08
	MW-12	8/17/1999	(orig)	4.8	5	0.32	3.39
	MW-12	8/17/1999	(Duplicate)	5.9	6.1	0.39	4.1
	MW-12	10/21/1999	(orig)	5.6	0.65	0.54	2.89
	MW-12	1/27/2000	(orig)	4.1	0.55	0.43	2.379
	MW-12	6/13/2000	(orig)	5	1.3	0.49	2.7
	MW-12	3/29/2001	(orig)	5.17	1.79	0.366	2.62
	MW-12	6/26/2001	(orig)	4.8	1.9	0.39	2.56
	MW-12	9/18/2001	(orig)	5.1	2.4	0.43	2.82
	MW-12	12/18/2001	(orig)	4	1.5	0.32	1.88
	MW-12	3/22/2002	(orig)	3.3	0.93	0.29	1.27
	MW-12	6/28/2002	(orig)	4.2	1.8	0.41	1.94
	MW-12	9/23/2002	(orig)	3.8	1.5	0.31	1.51
	MW-12	12/31/2002	(orig)	3.6	0.84	0.28	1.01
	MW-12	5/24/2003	(orig)	3.99	2.23	0.299	1.47
	MW-12	6/27/2003	(orig)	5.29	2.75	0.36	1.6
	MW-12	9/24/2003	(orig)	4.6	1.69	0.29	1.15
	MW-12	12/15/2003	(orig)	4.2	1.36	0.24	1.15
	MW-12	3/15/2004	(orig)	2.09	1.12	0.3	1.25
	MW-12	6/21/2004	(orig)	3.87	1.82	0.28	1.5
	MW-12	6/29/2004	(orig)	5.14	2.22	0.24	1.28
	MW-12	12/31/2004	(orig)	4.16	1.22	0.25	1.15
	MW-12	3/22/2005	(orig)	2.38	1.1	0.13	0.71
	MW-12	10/24/2005	(orig)	1.35	0.15	0.08	0.33
	MW-12	12/16/2005	(orig)	2.38	0.422	0.111	0.341
	MW-12	3/20/2006	(orig)	2.1	0.21	0.071	0.225
	MW-12	6/21/2006	(orig)	2.27	0.385	0.085	0.355
	MW-12	10/18/2006	(orig)	1.74	0.477	0.112	0.399
	MW-12	12/12/2006	(orig)	2.4	1.11	0.142	0.668
	MW-12	3/26/2007	(orig)	4.13	1.68	0.34	1.18
	MW-12	6/26/2007	(orig)	1.52	0.432	0.118	0.34
	MW-12	11/8/2007	(orig)	0.78	0.31	0.043	0.17
	MW-12	1/17/2008	(orig)	2	1.4	0.18	0.79
	MW-12	3/19/2008	(orig)	1.6	0.56	0.16	0.53
	MW-12	7/22/2008	(orig)	0.73	0.022	0.014	0.021
	MW-12	10/23/2008	(orig)	0.5	0.03	0.022	0.04
	MW-12	1/21/2009	(orig)	1.1	0.43	0.11	0.41
	MW-12	9/24/2009	(orig)	0.61	0.0083	0.01	0.0195
	MW-12	9/28/2010	(orig)	0.55	< 0.001	0.015	0.016
	GW-074927-100411-CM-003	10/4/2011	(orig)	0.494	< 0.01	0.0235	< 0.03
	GW-074927-092612-CM-MW-12	9/26/2012	(orig)	0.617	<0.001	0.015	0.0207

TABLE 3
GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
MW-15	MW-15	10/21/1999	(orig)	< 0.0005	0.0012	< 0.0005	0.0015
	MW-15	1/27/2000	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	6/13/2000	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	3/29/2001	(orig)	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	MW-15	6/26/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	9/18/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	12/18/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	3/22/2002	(orig)	<	<	<	<
	MW-15	6/28/2002	(orig)	<	<	<	<
	MW-15	9/23/2002	(orig)	<	<	<	<
	MW-15	12/31/2002	(orig)	<	<	<	<
	MW-15	3/27/2003	(orig)	<	0.0003 J	<	0.0009 J
	MW-15	6/27/2003	(orig)	0.0004 J	<	<	<
	MW-15	9/24/2003	(orig)	<	<	<	<
	MW-15	3/15/2004	(orig)	<	0.0003 J	<	<
	MW-15	6/21/2004	(orig)	<	<	<	<
	MW-15	9/29/2004	(orig)	<	<	<	<
	MW-15	12/15/2004	(orig)	0.0007 J	<	<	<
	MW-15	12/31/2004	(orig)	<	0.0009 J	0.0003 J	0.0014 J
	MW-15	3/22/2005	(orig)	<	<	<	<
	MW-15	10/24/2005	(orig)	<	<	<	<
	MW-15	12/12/2005	(orig)	<	0.0003 J	<	0.0004 J
	MW-15	3/20/2006	(orig)	<	<	<	<
	MW-15	6/21/2006	(orig)	0.0007 J	<	0.0003 J	<
	MW-15	10/18/2006	(orig)	<	0.0003 J	<	0.0002 J
	MW-15	12/12/2006	(orig)	<	<	<	<
	MW-15	3/26/2007	(orig)	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-15	6/26/2007	(orig)	< 0.0003	0.0005 J	< 0.0002	< 0.0006
	MW-15	11/8/2007	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-15	1/17/2008	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-15	3/19/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	7/22/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	10/23/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	1/21/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	9/24/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	MW-15	9/28/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-001	10/4/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-15	9/26/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003

TABLE 3
GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
MW-16	MW-16	10/21/1999	(orig)	0.22	0.3	0.0054	0.142
	MW-16	10/21/1999	(Duplicate)	0.214	0.268	0.004	0.151
	MW-16	1/27/2000	(orig)	1.6	0.17	0.056	0.225
	MW-16	6/13/2000	(orig)	8.7	0.43	0.68	2.2
	MW-16	6/26/2001	(orig)	9.3	1.1	0.81	3.41
	MW-16	9/18/2001	(orig)	11	6.4	0.59	6.4
	MW-16	12/18/2001	(orig)	9.9	6.9	0.57	7.4
	MW-16	6/28/2002	(orig)	11	7	0.77	5.7
	MW-16	9/23/2002	(orig)	8.9	9.9	0.61	8.5
	MW-16	12/31/2002	(orig)	8.8	7.9	0.77	7.4
	MW-16	3/22/2003	(orig)	10	6.6	1.1	7.4
	MW-16	3/27/2003	(orig)	10.4	11.2	0.84	8.67
	MW-16	9/24/2003	(orig)	10.3	15.4	0.87	10.59
	MW-16	3/15/2004	(orig)	9.2	16	1.31	12
	MW-16	6/21/2004	(orig)	8.04	18.1	2.45	18.58
	MW-16	9/29/2004	(orig)	8.33	14	0.76	8.23
	MW-16	12/15/2004	(orig)	9.64	12.6	0.72	1.55
	MW-16	12/31/2004	(orig)	8.34	17.1	1.55	18.83
	MW-16	3/28/2005	(orig)	4.14	5.81	0.76	10.48
	MW-16	10/24/2005	(orig)	6.28	9.8	0.67	6.91
	MW-16	12/12/2005	(orig)	6.94	11.5	0.75	8.06
	MW-16	3/20/2006	(orig)	6.82	11.5	0.83	8.55
	MW-16	6/21/2006	(orig)	6.64	11.2	0.69	7.57
	MW-16	10/18/2006	(orig)	5.7	10.2	0.62	6.52
	MW-16	12/12/2006	(orig)	4.6	10	0.55	6.83
	MW-16	3/26/2007	(orig)	2.97	2.82	0.26	5.22
	MW-16	6/26/2007	(orig)	5.23	9.11	0.77	7.76
	MW-16	11/8/2007	(orig)	5.5	12	0.57	6.2
	MW-16	1/17/2008	(orig)	4.6	9.1	0.55	5.6
	MW-16	3/19/2008	(orig)	5.5	9.6	0.51	6.9
	MW-16	7/22/2008	(orig)	3.6	6.1	0.43	4.5
	MW-16	10/23/2008	(orig)	4.7	9.1	0.48	6.6
	MW-16	1/21/2009	(orig)	4.2	7.5	0.48	6.9
	MW-16	9/24/2009	(orig)	3.2	4.6	0.34	3.5
	MW-16	9/29/2010	(orig)	3	4.6	3.4	23.6
	MW-16	12/15/2010	(orig)	5.2	13	1.1	14.5
	MW-16	10/11/2011	No sample collected due to presence of LNAPL.				
	MW-16	9/26/2012	No sample collected due to presence of LNAPL.				

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
Seep	Seep	7/1/1998	(orig)	0.0016	0.0007	0.0006	0.00036
	Seep	4/14/1999	(orig)	0.04	0.0022	0.0021	0.019
	Seep	10/21/1999	(orig)	0.065	0.23	0.011	0.434
	Seep	3/29/2001	(orig)	0.0116	< 0.0002	0.0007 J	0.0254
	Seep	6/26/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	Seep	9/18/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	Seep	12/18/2001	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.001
	Seep	3/22/2002	(orig)	0.0059	<	0.0008	0.0034
	Seep	6/28/2002	(orig)	<	<	<	<
	Seep	9/23/2002	(orig)	<	<	<	<
	Seep	12/31/2002	(orig)	0.0007	<	<	<
	Seep	3/27/2003	(orig)	0.0063	0.0002 J	0.0018	0.0101
	Seep	9/24/2003	(orig)	<	0.0003 J	<	<
	Seep	12/15/2003	(orig)	0.0004 J	0.0003 J	<	<
	Seep	3/15/2004	(orig)	<	<	<	<
	Seep	6/21/2004	(orig)	<	<	<	<
	Seep	9/29/2004	(orig)	<	<	<	<
	Seep	12/31/2004	(orig)	<	0.0002 J	<	0.0004 J
	Seep	3/28/2005	(orig)	<	<	<	<
	Seep	10/24/2005	(orig)	<	J	<	<
	Seep	12/12/2005	(orig)	<	0.0005 J	0.0003 J	0.0009 J
	Seep	3/20/2006	(orig)	<	<	<	<
	Seep	6/21/2006	(orig)	0.004	0.0129	0.0008 J	0.015
	Seep	10/18/2006	(orig)	<	0.0005 J	0.0003 J	0.0014 J
	Seep	12/12/2006	(orig)	<	<	<	<
	Seep	3/26/2007	(orig)	< 0.0003	0.0003 J	< 0.0002	< 0.0006
	Seep	6/26/2007	(orig)	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	Seep	11/8/2007	(orig)	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	Seep	3/19/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	Seep	10/23/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	Seep	1/21/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	Seep	9/24/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	Seep	9/28/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001
	Seep	10/11/2011	No sample collected; seep dry.				
	Seep	10/11/2011	No sample collected; seep dry.				

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
HAMPTON No. 4M
SAN JUAN COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
TMW-1	TMW-1	1/27/2000	(orig)	0.93	1.4	0.35	6.7
	TMW-1	6/13/2000	(orig)	2.4	3.4	0.55	9.1
	TMW-1	6/26/2001	(orig)	1.1	3.5	0.33	5.5
	TMW-1	5/23/2003	(orig)	0.83	0.123	0.107	1.0047
	TMW-1	6/27/2003	(orig)	0.474	0.0366	0.0596	0.4907
	TMW-1	9/24/2003	(orig)	0.292	0.139	0.017	0.221
	TMW-1	12/15/2003	(orig)	0.0559	0.0013	0.0039	0.0425
	TMW-1	6/21/2004	(orig)	0.0406	<	0.0141	0.0147
	TMW-1	9/29/2004	(orig)	0.41	0.0087	0.0596	0.4585
	TMW-1	12/31/2004	(orig)	0.003 J	0.005 J	0.001 J	0.011 J
	TMW-1	3/22/2005	(orig)	0.0678	0.0133	0.0081	0.1017
	TMW-1	10/24/2005	(orig)	0.483	0.705	0.045	0.328
	TMW-1	12/12/2005	(orig)	0.122	0.317	0.019	0.16
	TMW-1	3/20/2006	(orig)	0.071	0.082	0.016	0.151
	TMW-1	6/21/2006	(orig)	0.159	0.0657	0.0569	0.36
	TMW-1	10/18/2006	(orig)	0.0064	0.0016	0.0021	0.0138
	TMW-1	6/26/2007	(orig)	0.269	0.0026	0.0049	0.0157
	TMW-1	11/8/2007	(orig)	0.3	0.012	0.006	0.038
	TMW-1	1/17/2008	(orig)	0.0008	< 0.0007	< 0.0008	0.001
	TMW-1	3/19/2008	(orig)	< 0.005	< 0.005	< 0.005	< 0.005
	TMW-1	7/22/2008	(orig)	0.13	0.029	0.011	0.022
	TMW-1	1/21/2009	(orig)	0.013	< 0.005	< 0.005	< 0.005
	TMW-1	9/28/2010	(orig)	0.013	< 0.001	< 0.001	0.0032
	TMW-1	10/11/2011	No sample collected; insufficient water present in well.				
	TMW-1	9/26/2012	No sample collected; well dry.				
NMWQCC Groundwater Quality Standards				0.01	0.75	0.75	0.62

Notes:

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

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

NS = Not Sampled

NMWQCC = New Mexico Water Quality Control Commission

mg/L = milligrams per liter (parts per million)

< 0.001 = Below Laboratory Detection Limit of 0.001 mg/L

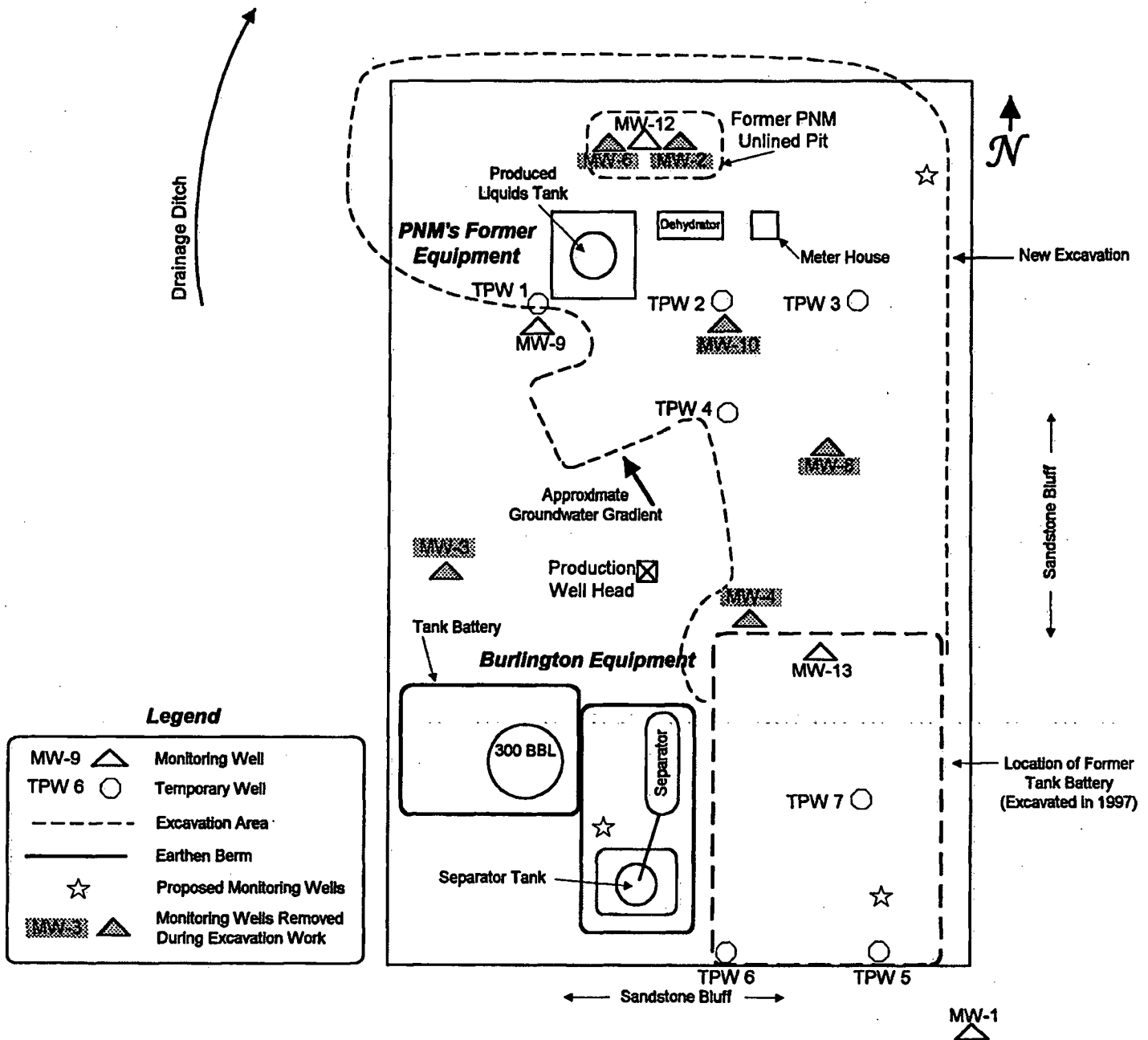
< = Below Laboratory Detection Limit

BOLD = Concentrations that exceed the NMWQCC groundwater quality standard

APPENDIX A

DIAGRAM OF FORMER EXCAVATION AREA

Hampton #4M Site Diagram



APPENDIX B

SEPTEMBER 2012 ANNUAL GROUNDWATER SAMPLING FIELD FORMS

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME:

Hampton 4M

JOB#

074927

SAMPLE ID:

GW-074927-092612-01-MW-1

WELL#

MW-1

WELL PURGING INFORMATION

9.26.12

PURGE DATE
(MM DD YY)

9.26.12

SAMPLE DATE
(MM DD YY)

0925

SAMPLE TIME
(24 HOUR)

0.68

WATER VOL. IN CASING
(GALLONS)

2.0

ACTUAL VOL. PURGED
(GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N
(CIRCLE ONE)

PURGING DEVICE

☒ G A - SUBMERSIBLE PUMP
☐ B - PERISTALTIC PUMP

D - GAS LIFT PUMP

G - BAILER

X=

PURGING DEVICE OTHER (SPECIFY)

SAMPLING DEVICE

☒ G C - BLADDER PUMP

F - DIPPER BOTTLE

X - OTHER

X=

SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL

☒ E A - TEFLON

D - PVC

X=

PURGING MATERIAL OTHER (SPECIFY)

SAMPLING MATERIAL

☒ E B - STAINLESS STEEL

E - POLYETHYLENE

X=

SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING

☒ C A - TEFLON

D - POLYPROPYLENE

G - COMBINATION

X=

PURGE TUBING OTHER (SPECIFY)

SAMPLING TUBING

☒ C B - TYGON

E - POLYETHYLENE

TEFLON/POLYPROPYLENE

X=

SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45

N/A

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

45 A

FIELD MEASUREMENTS

DEPTH TO WATER

43.88

(feet)

WELL ELEVATION

6149.42

(feet)

WELL DEPTH

48.10

(feet)

GROUNDWATER ELEVATION

6105.54

(feet)

TEMPERATURE

pH

TDS

CONDUCTIVITY

ORP

VOLUME

12.65 (°C)

4.08 (std)

2.017 (g/L)

2371 (µS/cm)

245.5 (mV)

1.0 (gal)

12.61 (°C)

4.10 (std)

2.020 (g/L)

2372 (µS/cm)

243.6 (mV)

1.5 (gal)

12.63 (°C)

4.19 (std)

2.022 (g/L)

2377 (µS/cm)

230.1 (mV)

2.0 (gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

FIELD COMMENTS

SAMPLE APPEARANCE:

cloudy

ODOR:

none

COLOR:

clear

SHEEN Y/N

WEATHER CONDITIONS:

TEMPERATURE

600

WINDY Y/N

PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

0.68 x 3 = 2.03

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CWA PROTOCOLS

DATE

PRINT

SIGNATURE

Christine Matthews

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME:

Hampton 4M

JOB#

074927

SAMPLE ID:

GW-074927-092612-CM-MW-5

WELL#

MW-5

9.25.12

PURGE DATE
(MM DD YY)

9.26.12

SAMPLE DATE
(MM DD YY)

WELL PURGING INFORMATION

1010

SAMPLE TIME
(24 HOUR)

43

WATER VOL. IN CASING
(GALLONS)

0.75

ACTUAL VOL. PURGED
(GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N

(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N

(CIRCLE ONE)

PURGING DEVICE

☒ G

A - SUBMERSIBLE PUMP

D - GAS LIFT PUMP

G - BAILER

X=

SAMPLING DEVICE

☒ G

B - PERISTALTIC PUMP

E - PURGE PUMP

H - WATERA®

PURGING DEVICE OTHER (SPECIFY)

☒ C

C - BLADDER PUMP

F - DIPPER BOTTLE

X - OTHER

X=

SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL

☒ E

A - TEFLON

D - PVC

X=

SAMPLING MATERIAL

☒ E

B - STAINLESS STEEL

E - POLYETHYLENE

X=

☒ C

C - POLYPROPYLENE

X - OTHER

PURGING MATERIAL OTHER (SPECIFY)

SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING

☒ C

A - TEFLON

D - POLYPROPYLENE

G - COMBINATION

X=

SAMPLING TUBING

☒ C

B - TYGON

E - POLYETHYLENE

TEFLON/POLYPROPYLENE

X=

☒ C

C - ROPE

F - SILICONE

X - OTHER

PURGE TUBING OTHER (SPECIFY)

SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45

☒ N/A

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

FIELD MEASUREMENTS

DEPTH TO WATER

17.46

(feet)

WELL ELEVATION

6090.83

(feet)

WELL DEPTH

20.17

(feet)

GROUNDWATER ELEVATION

6073.37

(feet)

TEMPERATURE

pH

TDS

CONDUCTIVITY

ORP

VOLUME

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

FIELD COMMENTS

SAMPLE APPEARANCE:

cloudy

ODOR:

strong bio

COLOR:

gray

SHEEN Y/N

very slight spotty discolorous

WEATHER CONDITIONS:

TEMPERATURE

65°

WINDY Y/N

PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

No parameters due to low well volume & slow recharge

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE

9/26/12

PRINT

Christine Matthews

SIGNATURE

[Signature]

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME:

JOB#

SAMPLE ID:

WELL#

9.26.2012
PURGE DATE
(MM DD YY)

9.26.2012
SAMPLE DATE
(MM DD YY)

1035
SAMPLE TIME
(24 HOUR)

1.21
WATER VOL. IN CASING
(GALLONS)

4.00
ACTUAL VOL. PURGED
(GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N
(CIRCLE ONE)

PURGING DEVICE	[G]	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X=
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERA®	PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	[G]	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X=
					SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	[E]	A - TEFLON	D - PVC		X=
		B - STAINLESS STEEL	E - POLYETHYLENE		PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	[E]	C - POLYPROPYLENE	X - OTHER		X=
					SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	[C]	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION	X=
		B - TYGON	E - POLYETHYLENE	TEFLON/POLYPROPYLENE	PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	[C]	C - ROPE	F - SILICONE	X - OTHER	X=
					SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	[N/A]	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 24.61 (feet)

WELL ELEVATION 6122.52 (feet)

WELL DEPTH 32.20 (feet)

GROUNDWATER ELEVATION 6097.91 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.11 (°C)	6.06 (std)	2.501 (g/L)	(µS/cm)	-22.1 (mV)	3.5 (gal)
14.91 (°C)	5.87 (std)	2.498 (g/L)	3105 (µS/cm)	-5.5 (mV)	3.75 (gal)
14.86 (°C)	5.70 (std)	2.495 (g/L)	3099 (µS/cm)	7.5 (mV)	4.00 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: clear SHEEN ☒ Y ☐ N
 WEATHER CONDITIONS: TEMPERATURE 65.0 WINDY ☒ Y ☐ N PRECIPITATION ☒ Y ☐ N (IF Y TYPE)
 SPECIFIC COMMENTS:

3 x Vol = 3.84 gal

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE

PRINT

SIGNATURE

9/26/12 Christine Matthews [Signature]

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME:

SAMPLE ID:

JOB#

WELL#

9.26.12
PURGE DATE
(MM DD YY)

9.26.12
SAMPLE DATE
(MM DD YY)

WELL PURGING INFORMATION

1135
SAMPLE TIME
(24 HOUR)

197
WATER VOL IN CASING
(GALLONS)

6.0
ACTUAL VOL. PURGED
(GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

PURGING DEVICE

☒ G

A - SUBMERSIBLE PUMP

D - GAS LIFT PUMP

G - BAILER

X=

B - PERISTALTIC PUMP

E - PURGE PUMP

H - WATERRA®

PURGING DEVICE OTHER (SPECIFY)

SAMPLING DEVICE

☒ G

C - BLADDER PUMP

F - DIPPER BOTTLE

X - OTHER

X=

SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL

☒ E

A - TEFLON

D - PVC

X=

B - STAINLESS STEEL

E - POLYETHYLENE

PURGING MATERIAL OTHER (SPECIFY)

SAMPLING MATERIAL

☒ E

C - POLYPROPYLENE

X - OTHER

X=

SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING

☒ C

A - TEFLON

D - POLYPROPYLENE

G - COMBINATION

X=

B - TYGON

E - POLYETHYLENE

TEFLON/POLYPROPYLENE

PURGE TUBING OTHER (SPECIFY)

SAMPLING TUBING

☒ C

C - ROPE

F - SILICONE

X - OTHER

X=

SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45

☒ N/A

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

FIELD MEASUREMENTS

DEPTH TO WATER

56.41

(feet)

WELL ELEVATION

6015.75

(feet)

WELL DEPTH

68.72

(feet)

GROUNDWATER ELEVATION

5959.34

(feet)

TEMPERATURE

pH

TDS

CONDUCTIVITY

ORP

VOLUME

14.35 (°C)

5.74 (std)

1.844 (g/L)

2260 (µS/cm)

4.3 (mV)

5.25 (gal)

14.14 (°C)

5.76 (std)

1.839 (g/L)

2242 (µS/cm)

6.6 (mV)

5.50 (gal)

14.17 (°C)

5.77 (std)

1.836 (g/L)

2239 (µS/cm)

9.3 (mV)

5.75 (gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

FIELD COMMENTS

SAMPLE APPEARANCE:

ODOR:

COLOR:

SHEN Y/N

WEATHER CONDITIONS:

TEMPERATURE

65°

WINDY ☒ N

PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

1.97 x 3 = 5.91

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE

PRINT

SIGNATURE

9/26/12

Christine Matthews

[Signature]

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME:

Hampton LAM

JOB#

074927

SAMPLE ID:

GW-074927-092612-MW-12

WELL#

MW-12

9.26.12

PURGE DATE
(MM DD YY)

9.26.12

SAMPLE DATE
(MM DD YY)

WELL PURGING INFORMATION

0955

SAMPLE TIME
(24 HOUR)

1.28

WATER VOL. IN CASING
(GALLONS)

4.0

ACTUAL VOL. PURGED
(GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

PURGING DEVICE

☒ G

A - SUBMERSIBLE PUMP

D - GAS LIFT PUMP

G - BAILER

X=

PURGING DEVICE OTHER (SPECIFY)

SAMPLING DEVICE

☒ G

B - PERISTALTIC PUMP

E - PURGE PUMP

H - WATERRA®

X=

SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL

☒ E

A - TEFLON

D - PVC

X=

PURGING MATERIAL OTHER (SPECIFY)

SAMPLING MATERIAL

☒ E

B - STAINLESS STEEL

E - POLYETHYLENE

X=

SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING

☒ C

A - TEFLON

D - POLYPROPYLENE

G - COMBINATION

X=

PURGE TUBING OTHER (SPECIFY)

SAMPLING TUBING

☒ C

B - TYGON

E - POLYETHYLENE

TEFLON/POLYPROPYLENE

X=

SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45

☒ N/A

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

FIELD MEASUREMENTS

DEPTH TO WATER

22.14

(feet)

WELL ELEVATION

6109.02

(feet)

WELL DEPTH

30.15

(feet)

GROUNDWATER ELEVATION

6086.88

(feet)

TEMPERATURE

pH

TDS

CONDUCTIVITY

ORP

VOLUME

Do

14.06 (°C)

6.09 (std)

2.258 (g/L)

2748 (µS/cm)

-110.9 (mV)

3.0 (gal)

4.91

14.23 (°C)

6.14 (std)

2.270 (g/L)

2775 (µS/cm)

-121.5 (mV)

3.5 (gal)

3.94

14.28 (°C)

6.14 (std)

2.272 (g/L)

2780 (µS/cm)

-122.5 (mV)

4.0 (gal)

3.75

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

(°C)

(std)

(g/L)

(µS/cm)

(mV)

(gal)

FIELD COMMENTS

SAMPLE APPEARANCE:

cloudy

ODOR:

strong bio

COLOR:

dark gray

SHEEN ☒ N

spotty discontinuous

WEATHER CONDITIONS:

TEMPERATURE

60°

WINDY ☒ N

PRECIPITATION ☒ N (IF Y TYPE)

SPECIFIC COMMENTS:

1.28 x 3 = 3.84

dup collected @ 1005

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE

9/26/12

PRINT

Christine Mathe

SIGNATURE

Christine Mathe

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME:

Hampton 4M

JOB#

074927

SAMPLE ID:

GW-074927-092612-CM-MW-15

WELL#

MW-15

WELL PURGING INFORMATION

9.26.12

PURGE DATE
(MM DD YY)

9.26.12

SAMPLE DATE
(MM DD YY)

0945

SAMPLE TIME
(24 HOUR)

1.00

WATER VOL. IN CASING
(GALLONS)

3.00

ACTUAL VOL. PURGED
(GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ N

(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ N

(CIRCLE ONE)

PURGING DEVICE

☒ G

A - SUBMERSIBLE PUMP

D - GAS LIFT PUMP

G - BAILER

X=

SAMPLING DEVICE

☒ G

B - PERISTALTIC PUMP

E - PURGE PUMP

H - WATERA®

PURGING DEVICE OTHER (SPECIFY)

☒ C

C - BLADDER PUMP

F - DIPPER BOTTLE

X - OTHER

X=

SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL

☒ E

A - TEFLON

D - PVC

X=

SAMPLING MATERIAL

☒ E

B - STAINLESS STEEL

E - POLYETHYLENE

PURGING MATERIAL OTHER (SPECIFY)

☒ C

C - POLYPROPYLENE

X - OTHER

X=

SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING

☒ C

A - TEFLON

D - POLYPROPYLENE

G - COMBINATION

X=

SAMPLING TUBING

☒ C

B - TYGON

E - POLYETHYLENE

TEFLON/POLYPROPYLENE

X=

☒ C

C - ROPE

F - SILICONE

X - OTHER

X=

SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45

N/A

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

FIELD MEASUREMENTS

DEPTH TO WATER

18.97

(feet)

WELL ELEVATION

(feet)

WELL DEPTH

25.25

(feet)

GROUNDWATER ELEVATION

(feet)

TEMPERATURE

15.85 (°C)

pH

3.88 (std)

TDS

2.237 (g/L)

CONDUCTIVITY

2840 (µS/cm)

ORP

265.0 (mV)

VOLUME

2.25 (gal)

16.00 (°C)

3.91 (std)

2.239 (g/L)

2853 (µS/cm)

272.9 (mV)

2.50 (gal)

15.83 (°C)

3.97 (std)

2.244 (g/L)

2849 (µS/cm)

279.3 (mV)

2.75 (gal)

 (°C)

 (std)

 (g/L)

 (µS/cm)

 (mV)

 (gal)

 (°C)

 (std)

 (g/L)

 (µS/cm)

 (mV)

 (gal)

FIELD COMMENTS

SAMPLE APPEARANCE:

cloudy

ODOR:

none

COLOR:

clear

SHEEN Y/N

Y

WEATHER CONDITIONS:

TEMPERATURE

60°

WINDY Y/N

N

PRECIPITATION Y/N (OF Y TYPE)

Y

SPECIFIC COMMENTS:

1.00 x 3 = 3.00

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE

9/26/12

PRINT

Christine Matheis

SIGNATURE

Christine Matheis

6.09
5.68
5.55

APPENDIX C

SEPTEMBER 2012 ANNUAL GROUNDWATER LABORATORY ANALYTICAL REPORT

October 09, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 074927 HAMPTON NO. 4M
Pace Project No.: 60130137

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa



REPORT OF LABORATORY ANALYSIS

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Page 1 of 17

Pace Package 1 of 19

CERTIFICATIONS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

REPORT OF LABORATORY ANALYSIS

Page 2 of 17

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SAMPLE SUMMARY

Project: 074927 HAMPTON NO. 4M
Pace Project No.: 60130137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60130137001	GW-074927-092612-CM-MW-1	Water	09/26/12 09:25	09/29/12 08:30
60130137002	GW-074927-092612-CM-MW-15	Water	09/26/12 09:45	09/29/12 08:30
60130137003	GW-074927-092612-CM-MW-12	Water	09/26/12 09:55	09/29/12 08:30
60130137004	GW-074927-092612-CM-DUP	Water	09/26/12 10:05	09/29/12 08:30
60130137005	GW-074927-092612-CM-MW-5	Water	09/26/12 10:10	09/29/12 08:30
60130137006	GW-074927-092612-CM-MW-9	Water	09/26/12 10:35	09/29/12 08:30
60130137007	GW-074927-092612-CM-MW-11	Water	09/26/12 11:35	09/29/12 08:30
60130137008	TB-074927-092612-CM-001	Water	09/26/12 12:00	09/29/12 08:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60130137001	GW-074927-092612-CM-MW-1	EPA 5030B/8260	PRG	9
60130137002	GW-074927-092612-CM-MW-15	EPA 5030B/8260	PRG	9
60130137003	GW-074927-092612-CM-MW-12	EPA 5030B/8260	PRG	9
60130137004	GW-074927-092612-CM-DUP	EPA 5030B/8260	PRG	9
60130137005	GW-074927-092612-CM-MW-5	EPA 5030B/8260	PRG	9
60130137006	GW-074927-092612-CM-MW-9	EPA 5030B/8260	PRG	9
60130137007	GW-074927-092612-CM-MW-11	EPA 5030B/8260	PRG	9
60130137008	TB-074927-092612-CM-001	EPA 5030B/8260	PRG	9

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 074927 HAMPTON NO. 4M
Pace Project No.: 60130137

Method: EPA 5030B/8260
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 09, 2012

General Information:

8 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MSV/48976

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

QC Batch: MSV/49015

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

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 5 of 17

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ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: **GW-074927-092612-CM-MW-1** Lab ID: **60130137001** Collected: 09/26/12 09:25 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	ND	ug/L	1.0	0.098	1		10/04/12 23:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/04/12 23:33	100-41-4	
Toluene	ND	ug/L	1.0	0.15	1		10/04/12 23:33	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/04/12 23:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	80-120		1		10/04/12 23:33	460-00-4	
Dibromofluoromethane (S)	101	%	80-120		1		10/04/12 23:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		10/04/12 23:33	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		10/04/12 23:33	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/04/12 23:33		

ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: GW-074927-092612-CM-MW-15 Lab ID: 60130137002 Collected: 09/26/12 09:45 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	ND	ug/L	1.0	0.098	1		10/04/12 23:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/04/12 23:47	100-41-4	
Toluene	ND	ug/L	1.0	0.15	1		10/04/12 23:47	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/04/12 23:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		10/04/12 23:47	460-00-4	
Dibromofluoromethane (S)	100	%	80-120		1		10/04/12 23:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		10/04/12 23:47	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		10/04/12 23:47	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/04/12 23:47		

ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: **GW-074927-092612-CM-MW-12** Lab ID: **60130137003** Collected: 09/26/12 09:55 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	617	ug/L	10.0	0.98	10		10/05/12 23:19	71-43-2	
Ethylbenzene	15.0	ug/L	1.0	0.23	1		10/05/12 00:02	100-41-4	
Toluene	ND	ug/L	1.0	0.15	1		10/05/12 00:02	108-88-3	
Xylene (Total)	20.7	ug/L	3.0	0.41	1		10/05/12 00:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	113	%	80-120		1		10/05/12 00:02	460-00-4	
Dibromofluoromethane (S)	98	%	80-120		1		10/05/12 00:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		10/05/12 00:02	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		10/05/12 00:02	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/05/12 00:02		

ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: **GW-074927-092612-CM-DUP** Lab ID: **60130137004** Collected: 09/26/12 10:05 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	776	ug/L	10.0	0.98	10		10/05/12 23:33	71-43-2	
Ethylbenzene	21.0	ug/L	1.0	0.23	1		10/05/12 00:16	100-41-4	
Toluene	ND	ug/L	1.0	0.15	1		10/05/12 00:16	108-88-3	
Xylene (Total)	32.8	ug/L	3.0	0.41	1		10/05/12 00:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	80-120		1		10/05/12 00:16	460-00-4	
Dibromofluoromethane (S)	98	%	80-120		1		10/05/12 00:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		10/05/12 00:16	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		10/05/12 00:16	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/05/12 00:16		

ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: **GW-074927-092612-CM-MW-5** Lab ID: **60130137005** Collected: 09/26/12 10:10 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	89.8	ug/L	1.0	0.098	1		10/05/12 00:31	71-43-2	
Ethylbenzene	551	ug/L	20.0	4.6	20		10/05/12 23:48	100-41-4	
Toluene	626	ug/L	20.0	3.0	20		10/05/12 23:48	108-88-3	
Xylene (Total)	3590	ug/L	60.0	8.2	20		10/05/12 23:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	110	%	80-120		1		10/05/12 00:31	460-00-4	
Dibromofluoromethane (S)	100	%	80-120		1		10/05/12 00:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		10/05/12 00:31	17060-07-0	
Toluene-d8 (S)	108	%	80-120		1		10/05/12 00:31	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/05/12 00:31		

ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: **GW-074927-092612-CM-MW-9** Lab ID: **60130137006** Collected: 09/26/12 10:35 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	ND	ug/L	1.0	0.098	1		10/05/12 00:46	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/06/12 00:02	100-41-4	
Toluene	ND	ug/L	1.0	0.15	1		10/06/12 00:02	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/06/12 00:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105 %		80-120		1		10/06/12 00:02	460-00-4	
Dibromofluoromethane (S)	105 %		80-120		1		10/06/12 00:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		80-120		1		10/06/12 00:02	17060-07-0	
Toluene-d8 (S)	100 %		80-120		1		10/06/12 00:02	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/05/12 00:46		

ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: GW-074927-092612-CM-MW-11 Lab ID: 60130137007 Collected: 09/26/12 11:35 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	ND	ug/L	1.0	0.098	1		10/05/12 01:01	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/05/12 01:01	100-41-4	
Toluene	ND	ug/L	1.0	0.15	1		10/05/12 01:01	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/05/12 01:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99 %		80-120		1		10/05/12 01:01	460-00-4	
Dibromofluoromethane (S)	102 %		80-120		1		10/05/12 01:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	104 %		80-120		1		10/05/12 01:01	17060-07-0	
Toluene-d8 (S)	96 %		80-120		1		10/05/12 01:01	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/05/12 01:01		

ANALYTICAL RESULTS

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Sample: TB-074927-092612-CM-001 Lab ID: 60130137008 Collected: 09/26/12 12:00 Received: 09/29/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Benzene	ND	ug/L	1.0	0.098	1		10/05/12 01:15	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/05/12 01:15	100-41-4	
Toluene	ND	ug/L	1.0	0.15	1		10/05/12 01:15	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/05/12 01:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101 %		80-120		1		10/05/12 01:15	460-00-4	
Dibromofluoromethane (S)	109 %		80-120		1		10/05/12 01:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	97 %		80-120		1		10/05/12 01:15	17060-07-0	
Toluene-d8 (S)	97 %		80-120		1		10/05/12 01:15	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		10/05/12 01:15		

QUALITY CONTROL DATA

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

QC Batch: MSV/48976 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60130137001, 60130137002, 60130137003, 60130137004, 60130137005, 60130137006, 60130137007, 60130137008

METHOD BLANK: 1072870

Matrix: Water

Associated Lab Samples: 60130137001, 60130137002, 60130137003, 60130137004, 60130137005, 60130137006, 60130137007, 60130137008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/04/12 21:50	
Ethylbenzene	ug/L	ND	1.0	10/04/12 21:50	
Toluene	ug/L	ND	1.0	10/04/12 21:50	
Xylene (Total)	ug/L	ND	3.0	10/04/12 21:50	
1,2-Dichloroethane-d4 (S)	%	99	80-120	10/04/12 21:50	
4-Bromofluorobenzene (S)	%	100	80-120	10/04/12 21:50	
Dibromofluoromethane (S)	%	102	80-120	10/04/12 21:50	
Toluene-d8 (S)	%	98	80-120	10/04/12 21:50	

LABORATORY CONTROL SAMPLE: 1072871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.3	102	74-123	
Ethylbenzene	ug/L	20	20.6	103	76-123	
Toluene	ug/L	20	19.0	95	75-123	
Xylene (Total)	ug/L	60	60.0	100	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			105	80-120	
Toluene-d8 (S)	%			98	80-120	

QUALITY CONTROL DATA

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

QC Batch: MSV/49015 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60130137003, 60130137004, 60130137005, 60130137006

METHOD BLANK: 1073928 Matrix: Water

Associated Lab Samples: 60130137003, 60130137004, 60130137005, 60130137006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/05/12 23:04	
Ethylbenzene	ug/L	ND	1.0	10/05/12 23:04	
Toluene	ug/L	ND	1.0	10/05/12 23:04	
Xylene (Total)	ug/L	ND	3.0	10/05/12 23:04	
1,2-Dichloroethane-d4 (S)	%	98	80-120	10/05/12 23:04	
4-Bromofluorobenzene (S)	%	103	80-120	10/05/12 23:04	
Dibromofluoromethane (S)	%	100	80-120	10/05/12 23:04	
Toluene-d8 (S)	%	99	80-120	10/05/12 23:04	

LABORATORY CONTROL SAMPLE: 1073929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.6	108	74-123	
Ethylbenzene	ug/L	20	20.5	103	76-123	
Toluene	ug/L	20	19.2	96	75-123	
Xylene (Total)	ug/L	60	60.2	100	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Dibromofluoromethane (S)	%			105	80-120	
Toluene-d8 (S)	%			97	80-120	

QUALIFIERS

Project: 074927 HAMPTON NO. 4M
Pace Project No.: 60130137

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/48976

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/49015

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074927 HAMPTON NO. 4M

Pace Project No.: 60130137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60130137001	GW-074927-092612-CM-MW-1	EPA 5030B/8260	MSV/48976		
60130137002	GW-074927-092612-CM-MW-15	EPA 5030B/8260	MSV/48976		
60130137003	GW-074927-092612-CM-MW-12	EPA 5030B/8260	MSV/48976		
60130137003	GW-074927-092612-CM-MW-12	EPA 5030B/8260	MSV/49015		
60130137004	GW-074927-092612-CM-DUP	EPA 5030B/8260	MSV/48976		
60130137004	GW-074927-092612-CM-DUP	EPA 5030B/8260	MSV/49015		
60130137005	GW-074927-092612-CM-MW-5	EPA 5030B/8260	MSV/48976		
60130137005	GW-074927-092612-CM-MW-5	EPA 5030B/8260	MSV/49015		
60130137006	GW-074927-092612-CM-MW-9	EPA 5030B/8260	MSV/48976		
60130137006	GW-074927-092612-CM-MW-9	EPA 5030B/8260	MSV/49015		
60130137007	GW-074927-092612-CM-MW-11	EPA 5030B/8260	MSV/48976		
60130137008	TB-074927-092612-CM-001	EPA 5030B/8260	MSV/48976		



Sample Condition Upon Receipt – ESI Tech Specs

Client Name: COP-CRA NM

Project #: 60130137

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8987 2945 2968

Pace Shipping Label Used? Yes ☐ No ☒

Optional

Proj Due Date: 10/15
Proj Name:

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-191 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-4

Date and initials of person examining contents: 9/29/12

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
-Includes date/time/ID/analyses Matrix: <u>W</u>		15.
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	17.
Exceptions: <u>VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics</u>	☒ Yes ☐ No	Initial when completed
Trip Blank present:	☐ Yes ☐ No ☐ N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>081312-3</u>		18.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	19.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	20. List State:

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Temp Log: Record start and finish times when unpacking cooler, if >20 min; recheck sample temps.

Start: 1210 Start:

End: 1215 End:

Temp: Temp:

Project Manager Review: AAE

Date: 10/1/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the NCDENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).