

3R - 090

**QUARTERLY
MONITORING
REPORT**

11/28/2007



TETRA TECH, INC.

November 28, 2007

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


**RE: (1) ConocoPhillips Nell Hall #1 2007 Quarterly Report
Flora Vista, New Mexico
(2) ConocoPhillips Shephard & Kelsey #1 2007 Quarterly Report
Bloomfield, New Mexico**

Dear Mr. von Gonten:

Enclosed please find a copy of the above-referenced documents as compiled by Tetra Tech, Inc., formerly Maxim Technologies, 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)

320090

6121 Indian School Rd. NE Suite 200

Albuquerque, NM 87110

(505) 237-8440

RECEIVED

2007 NOV 30 PM 2 19

320090 ✓

320097

3R0090

GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS NELL HALL #1 FLORA VISTA, NEW MEXICO OCD # 3R0090

Prepared for:



600 North Dairy Ashford
Houston, TX 77079

Prepared by:



TETRA TECH, INC.

6121 Indian School Rd. NE, Suite 200
Albuquerque, NM 87110
Tetra Tech Project No. 7690022.100

November 28, 2007

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GROUNDWATER MONITORING REPORT NELL HALL #1, FLORA VISTA, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of the annual groundwater monitoring event conducted on August 22, 2007 at the ConocoPhillips Nell Hall #1 Site in Flora Vista, New Mexico, by Tetra Tech, Inc. (Tetra Tech).

The site is located northeast of Farmington, New Mexico on Flora Vista Road in Flora Vista, New Mexico approximately 2 miles west of Aztec, New Mexico. The site consists of a gas production well and associated equipment and installations. The location and general features of the Nell Hall #1 site are shown on Figures 1 and 2, respectively.

The environmental investigation at this site began with the attempted closure of an unlined dehydrator discharge pit in the early 1990's. Soil and groundwater impacts were discovered and three monitoring wells were installed. Due to an ongoing drought, the wells became dry. Souder Miller and Associates installed three additional monitoring wells to greater depths on February 17 and 18, 2004. MW-4 and MW-6 were installed to 35 feet below ground surface (bgs) with 30 feet of slotted screen and MW-5 was installed to 39 feet bgs with 35 feet of slotted screen.

On August 22, 2007 Tetra Tech was onsite to conduct a groundwater sampling event. Groundwater samples from MW-4, MW-5, and MW-6 were collected and shipped to Lancaster Laboratories in Lancaster, Pennsylvania to be analyzed for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX), sulfate, nitrate, phosphate, and ferrous iron.

2.0 METHODOLOGY AND RESULTS

The following describes the groundwater monitoring methodology and results:

2.1 Groundwater Monitoring Methodology

On August 22, 2007 monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6 were checked for the presence of water. Monitoring wells MW-4, MW-5, and MW-6 were purged of three volumes of water and sampled. A 1.5-inch dedicated, clear, poly-vinyl, 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 (Figure 2). The groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped with chain-of-custody documentation to Lancaster Laboratories located in Lancaster, Pennsylvania. The samples were analyzed for the presence of BTEX by Environmental Protection

Agency (EPA) Method 8260B, sulfate and nitrate by EPA Method 300.0, phosphate by EPA Method 365.1, and ferrous iron by Standard Method (SM) 20, 3500-Fe B Modified.

A groundwater elevation contour map was created using the August 22, 2007 groundwater elevation data (Figure 3). Table 1 presents the well specifications, historical groundwater levels, and the top of casing survey results used to calculate the groundwater elevations at the site.

2.2 Groundwater Sampling Analytical Results

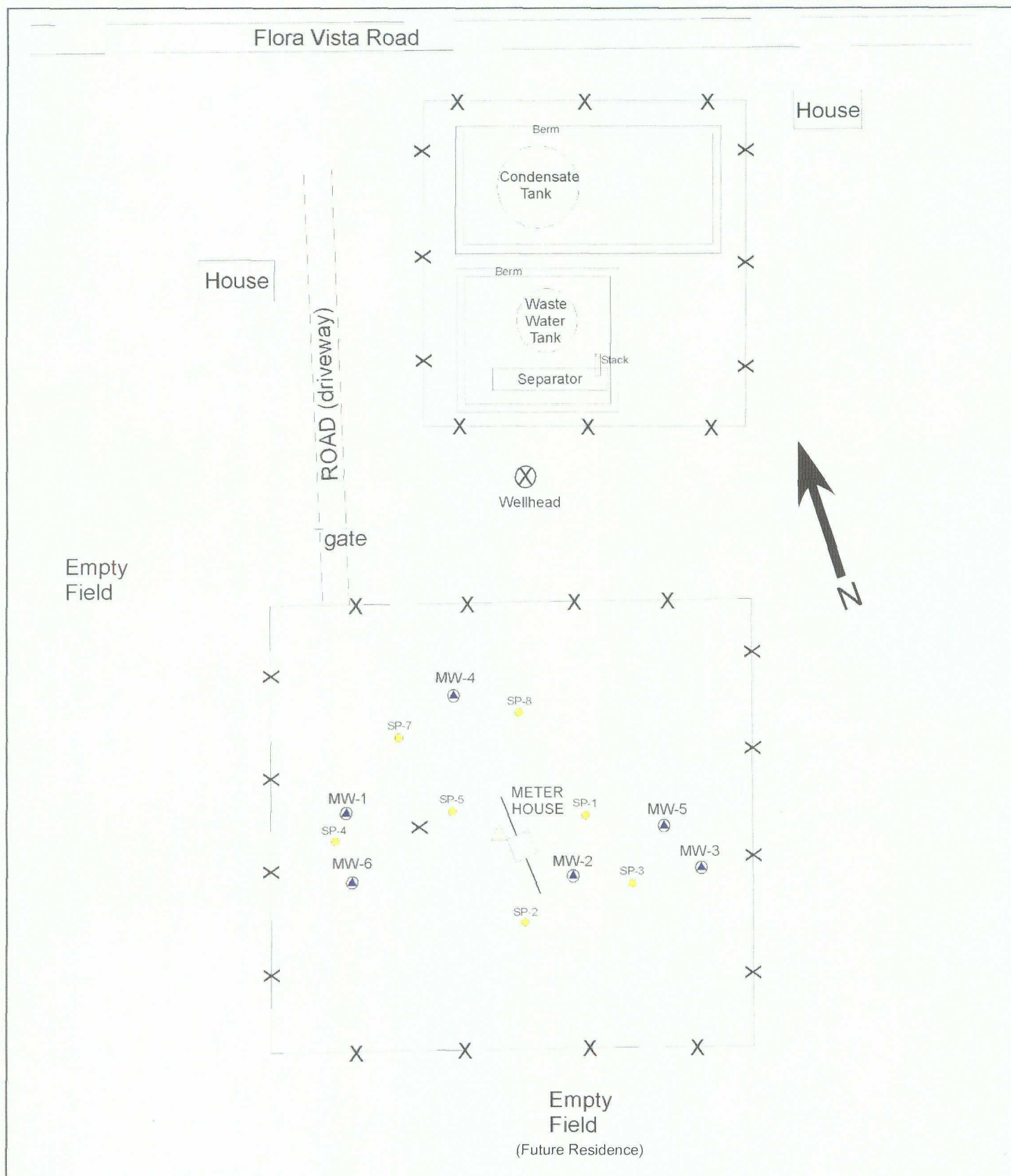
During the August 22, 2007 sampling event, the samples collected from MW-4, MW-5, and MW-6 were below laboratory detection limits and New Mexico Water Quality Control Commission (NMWQCC) standards for BTEX and phosphate. All other constituents of concern (COCs) were below the NMWQCC standards. Table 2 summarizes historical laboratory analytical results for groundwater sampling events. The August 2007 laboratory analytical results report is included as Appendix A.

3.0 CONCLUSIONS

Tetra Tech will conduct the next groundwater sampling event during November 2007. During 2008, Tetra Tech plans to conduct semi-annual groundwater sampling at the site during months when the water levels have historically been low. Recently, COCs have been detected in groundwater samples exclusively during these times. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetrattech.com if you have any questions or require additional information.

FIGURES





<p>SCALE</p> <p>0 20' 40' 80'</p> <p>Tt</p> <p>TETRA TECH, INC.</p>	<p>LEGEND</p> <p>MW-2 ▲ - Monitoring Well Locations</p> <p>SP-3 ● - Sparge Point Locations</p> <p>● - Survey Control Point</p> <p>X - Fence</p> <p>NOTE: SP-1 Removed.</p>	<p>FIGURE 2. CONOCOPHILLIPS NELL HALL #1 SITE MAP</p>
--	--	---

Flora Vista Road

House

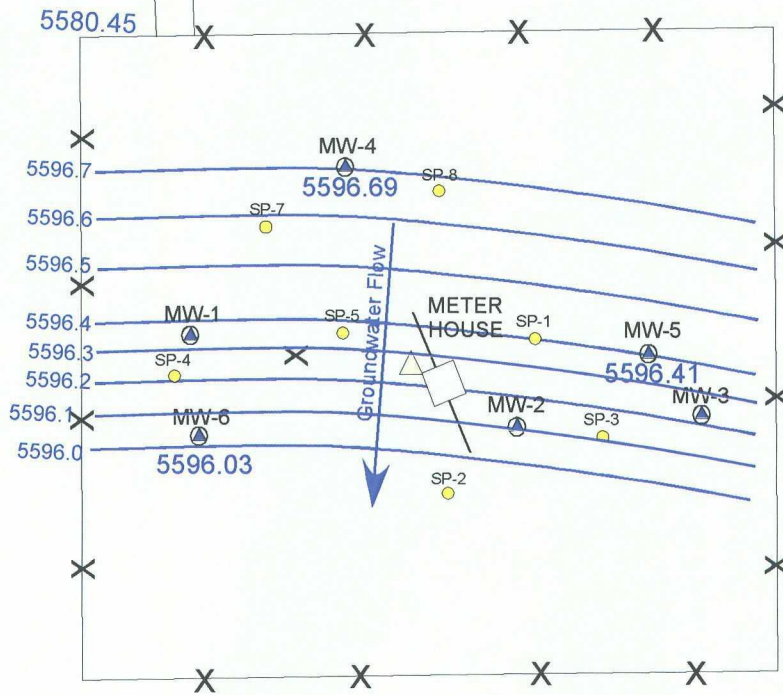
House

ROAD (driveway)

gate

Wellhead

Empty Field



Empty Field
(Future Residence)

SCALE



TETRA TECH, INC.

LEGEND

- MW-2 - Monitoring Well Locations
- SP-3 - Sparge Point Locations
- △ - Survey Control Point
- X - Fence
- - Groundwater Contour

NOTE: SP-1 Removed.

FIGURE 3.
CONOCOPHILLIPS
NELL HALL #1
GROUNDWATER ELEVATION
CONTOUR MAP (08/22/2007)

TABLES

Table 1. ConocoPhillips Nell Hall #1 Monitoring Well Specifications and Groundwater Elevation Table

Well ID	Date Installed	Total Depth (ft. bgs)	Screen Interval (ft)	Elevation (ft. msl) (TOC)	Date Measured	Groundwater Level (ft TOC)	Groundwater Elevation (ft msl)
MW-4	2/18/2004	35	5-35	5614.87	3/8/2004	36.04	5578.83
					7/19/2004	8.44	5606.43
					10/27/2004	19.69	5595.18
					12/27/2004	27.58	5587.29
					5/10/2005		dry
					11/22/2005	23.93	5590.94
					11/15/2006	21.02	5593.85
					2/19/2007	34.40	5580.47
					8/22/2007	18.18	5596.69
					3/8/2004	37.19	5578.67
MW-5	2/17/2004	39	4-39	5615.86	7/19/2004	9.38	5606.48
					10/27/2004	21.07	5594.79
					12/27/2004	28.99	5586.87
					5/10/2005	39.79	5576.07
					11/22/2005	25.23	5590.63
					11/15/2006	22.51	5593.35
					2/19/2007	35.31	5580.55
					8/22/2007	19.45	5596.41
					3/8/2004	36.27	5579.17
					7/19/2004	9.43	5606.01
MW-6	2/18/2004	35	5-35	5615.44	10/27/2004	19.33	5596.11
					12/27/2004	28.62	5586.82
					5/10/2005		dry
					11/22/2005	25.02	5590.42
					11/15/2006	21.12	5594.32
					2/19/2007	34.82	5580.62
					8/22/2007	19.41	5596.03

msl = Mean sea level

TOC = Top of casing

bgs = below ground surface

Table 2. ConocoPhillips Nell Hall #1 Groundwater Analytical Results Summary

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Phosphate (mg/L)
MW-4	3/8/2004	13	12	64	1,400	NA	NA	NA	NA
	7/19/2004	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
	10/27/2004	11	8	21	130	NA	NA	NA	NA
	12/27/2004	<2.5	<2.5	<2.5	<0.5	NA	NA	NA	NA
	5/11/2005	dry							
	11/22/2005	<0.5	<0.7	<0.8	<0.8	<0.40	105	2.7	<0.25
	11/15/2006	<0.5	<0.7	<0.8	<0.8	<0.25	110	0.083	<0.25
MW-5	2/21/2007	<0.5	<0.7	<0.8	<0.8	<0.25	59.6	1.6	0.28
	8/22/2007	<0.5	<0.7	<0.8	<0.8	<0.25	96.5	0.04	<0.25
	3/8/2004	1.1	<0.5	1	17	NA	NA	NA	NA
	7/19/2004	<0.5	0.55	<0.5	0.72	NA	NA	NA	NA
	10/27/2004	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	NA
	12/27/2004	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	NA
	5/11/2005	<0.5	<0.7	<0.8	<0.8	2.3	139	<0.0080	1.2
	11/22/2005	<0.5	<0.7	<0.8	<0.8	<0.40	38	<0.0080	0.43
	11/15/2006	<0.5	<0.7	<0.8	<0.8	2.3	77.9	<0.0080	<0.25
	2/21/2007	<0.5	<0.7	<0.8	<0.8	1.3	83.3	<0.0080	0.28
MW-6	8/22/2007	<0.5	<0.7	<0.8	<0.8	5.6	125	<0.0080	<0.25
	3/8/2004	2,500	14	1,600	21,031	NA	NA	NA	NA
	7/19/2004	<0.5	<0.5	0.98	2.6	NA	NA	NA	NA
	10/27/2004	0.4	0.3	0.5	2.1	NA	NA	NA	NA
	12/27/2004	45	6.8	14	71.7	NA	NA	NA	NA
	5/11/2005	dry							
	11/22/2005	10	0.7	16	150	<0.40	3.4	7.7	2.8
NMWQCC Standards	11/15/2006	<0.5	<0.7	<0.8	<0.8	<0.25	41.3	0.19	<0.25
	2/21/2007	540	<1	76	810	<0.25	1.8	6.4	9.0
	8/22/2007	<0.5	<0.7	<0.8	<0.8	<0.25	12.6	0.95	<0.25
NMWQCC Standards		10 (µg/L)	750 (µg/L)	750 (µg/L)	620 (µg/L)	10 (mg/L)	600 (mg/L)	1 (mg/L)	NE

NMWQCC = New Mexico Water Quality Control Commission

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

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

NE=Not Established

NA = Not Analyzed

APPENDIX A
LABORATORY REPORT



Analysis Report

2425 New Holland Pike, PO Box 12425 Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1052846. Samples arrived at the laboratory on Thursday, August 23, 2007. The PO# for this group is 4506560640 and the release number is LAUCK.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-4 Grab Water Sample	5136032
MW-5 Grab Water Sample	5136033
MW-6 Grab Water Sample	5136034
Duplicate Grab Water Sample	5136035
Trip Blank Water Sample	5136036

ELECTRONIC Tetra Tech
COPY TO

Attn: Kelly Blanchard



Analysis Report

2425 New Holland Pike PO Box 12425 Lancaster PA 17605-2425 • 717-656-2300 Fax 717-656-2661 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted.

A handwritten signature in cursive script that reads 'Robert Heisey'.

Robert Heisey
Senior Specialist



Analysis Report

2425 New Holland Pike. PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 5136032

MW-4 Grab Water Sample
Site# 6084
Nell Hall #1, NM

Collected: 08/22/2007 09:00

by KB

Account Number: 11288

Submitted: 08/23/2007 09:30

Reported: 09/04/2007 at 07:57

Discard: 10/05/2007

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

FNMW4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
00228	Sulfate	14808-79-8	96.5	3.0	10.0	mg/l	10
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	0.31	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
08344	Ferrous Iron	n.a.	0.040	0.0080	0.10	mg/l	1
02300	GC/MS Volatiles						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00228	Sulfate	EPA 300.0	1	08/24/2007 14:07	Ashley M Heckman	10
00345	Total Phosphorus as PO4 water	EPA 365.1	1	08/27/2007 17:52	Venia B McFadden	1
00368	Nitrate Nitrogen	EPA 300.0	1	08/24/2007 03:15	Ashley M Heckman	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	08/23/2007 22:10	Daniel S Smith	1
02300	GC/MS Volatiles	SW-846 8260B	1	08/28/2007 16:54	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/28/2007 16:54	Matthew F Regan	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	08/27/2007 11:50	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 5136033

MW-5 Grab Water Sample
Site# 6084
Nell Hall #1, NM

Collected: 08/22/2007 09:25 by KB

Account Number: 11288

Submitted: 08/23/2007 09:30
Reported: 09/04/2007 at 07:57
Discard: 10/05/2007

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

FNMW5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of	Units	Dilution Factor
				Detection Limit*	Quantitation		
00228	Sulfate	14808-79-8	125.	3.0	10.0	mg/l	10
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	0.31	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	5.6	0.25	0.50	mg/l	5
08344	Ferrous Iron	n.a.	N.D.	0.0080	0.10	mg/l	1
02300	GC/MS Volatiles						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00228	Sulfate	EPA 300.0	1	08/24/2007 14:20	Ashley M Heckman	10
00345	Total Phosphorus as PO4 water	EPA 365.1	1	08/27/2007 17:53	Venia B McFadden	1
00368	Nitrate Nitrogen	EPA 300.0	1	08/24/2007 03:30	Ashley M Heckman	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	08/23/2007 22:10	Daniel S Smith	1
02300	GC/MS Volatiles	SW-846 8260B	1	08/28/2007 17:18	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/28/2007 17:18	Matthew F Regan	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	08/27/2007 11:50	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 5136034

MW-6 Grab Water Sample
Site# 6084
Nell Hall #1, NM

Collected: 08/22/2007 09:45 by KB

Account Number: 11288

Submitted: 08/23/2007 09:30
Reported: 09/04/2007 at 07:57
Discard: 10/05/2007

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

FNMW6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00228	Sulfate	14808-79-8	12.6	1.5	5.0	mg/l	5
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	0.31	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
08344	Ferrous Iron	n.a.	0.95	0.040	0.50	mg/l	5
02300	GC/MS Volatiles						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	08/24/2007 08:09	Ashley M Heckman	5
00345	Total Phosphorus as PO4 water	EPA 365.1	1	08/27/2007 17:54	Venia B McFadden	1
00368	Nitrate Nitrogen	EPA 300.0	1	08/24/2007 08:09	Ashley M Heckman	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	08/23/2007 22:10	Daniel S Smith	5
02300	GC/MS Volatiles	SW-846 8260B	1	08/28/2007 17:42	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/28/2007 17:42	Matthew F Regan	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	08/27/2007 11:50	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 5136035

Duplicate Grab Water Sample
Site# 6084
Nell Hall #1, NM

Collected: 08/22/2007 10:00 by KB

Account Number: 11288

Submitted: 08/23/2007 09:30
Reported: 09/04/2007 at 07:57
Discard: 10/05/2007

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

FNDUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
02300	GC/MS Volatiles						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02300	GC/MS Volatiles	SW-846 8260B	1	08/28/2007 18:05	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/28/2007 18:05	Matthew F Regan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 5136036

Trip Blank Water Sample
Site# 6084
Nell Hall #1, NM

Collected: 08/22/2007

Account Number: 11288

Submitted: 08/23/2007 09:30
Reported: 09/04/2007 at 07:58
Discard: 10/05/2007

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

FNMTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02300	GC/MS Volatiles						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	GC/MS Volatiles	SW-846 8260B	1	08/28/2007 18:29	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/28/2007 18:29	Matthew F Regan	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ConocoPhillips
Reported: 09/04/07 at 07:58 AM

Group Number: 1052846

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07235196102A	Sample number(s): 5136032-5136034								
Sulfate	N.D.	0.30	1.0	mg/l	99		89-110		
Nitrate Nitrogen	N.D.	0.050	0.10	mg/l	105		90-110		
Batch number: 07235834404A	Sample number(s): 5136032-5136034								
Ferrous Iron	N.D.	0.0080	0.10	mg/l	102		95-105		
Batch number: 07239110101A	Sample number(s): 5136032-5136034								
Total Phosphorus as PO4 water	N.D.	0.25	0.31	mg/l	104		90-110		
Batch number: T072401AA	Sample number(s): 5136032-5136036								
Benzene	N.D.	0.5	5.	ug/l	106	105	78-119	1	30
Toluene	N.D.	0.7	5.	ug/l	94	96	85-115	2	30
Ethylbenzene	N.D.	0.8	5.	ug/l	86	86	82-119	0	30
Xylene (Total)	N.D.	0.8	5.	ug/l	88	89	83-113	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 07235196102A	Sample number(s): 5136032-5136034 UNSPK: P136054 BKG: P136054								
Sulfate	109		90-110			3.2	3.4	6* (1)	3
Nitrate Nitrogen	116*		90-110			N.D.	N.D.	0 (1)	2
Batch number: 07235834404A	Sample number(s): 5136032-5136034 UNSPK: P136042 BKG: P136042								
Ferrous Iron	96	97	86-110	1	4	2.5	2.5	0 (1)	8
Batch number: 07239110101A	Sample number(s): 5136032-5136034 UNSPK: P136991 BKG: P136991								
Total Phosphorus as PO4 water	98		90-110			N.D.	N.D.	172* (1)	3
Batch number: T072401AA	Sample number(s): 5136032-5136036 UNSPK: P138575								
Benzene	106		83-128						
Toluene	92		83-127						
Ethylbenzene	85		82-129						
Xylene (Total)	86		82-130						

Surrogate Quality Control

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 09/04/07 at 07:58 AM

Group Number: 1052846

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles
Batch number: T072401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5136032	111	98	96	101
5136033	110	100	94	101
5136034	108	97	100	107
5136035	107	96	98	106
5136036	110	99	96	102
Blank	108	97	95	101
LCS	106	101	98	103
LCSD	103	99	98	104
MS	106	100	97	105
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

**-.This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



For Lancaster Labs Use ONLY Acct. #: 11288 Group # 1052846 Sample# 5136032 SCR#: -36

005428

Site #: 6084 AOC#: 06084
Site City: Flora, MS State: MS
Entos PO#: 4506560640
ConocoPhillips PM: Terry Lauck
Samplers Name: Kelly Planchard & Ang Morano

ConocoPhillips PM: Terry Lauck
Samplers Name: Kelly Blanford

Sample Identification	Date Collected	Time Collected	Grab	Comm
MW-4	8-22-07	9:00	X	
MW-5	8-22-07	9:25	X	
MW-6	8-22-07	9:45	X	
Duplicate	8-22-07	10:00	X	

Consultant Information:

Office City: _____ State: _____
Project Manager: _____
Phone Number: _____ Fax: _____
Email: _____

Electronic Data Deliverables (Circle One) Yes / No Format

Reporting Requirements (Circle One)

Standard Reports/QC Summary

	NJ Regulatory	NJ Reduced	NY ASP-A	NY ASP-B	Other
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Turnaround Time Requested in Business Days (TAT) (Circle One):

STD. 5 day 48 hour 24 hour Other

Dispatched by	Date	Time	Received by:
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Relinquished by:	Date	Time	Received by:

Date	Time	Received by:
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~~Relinquished by Commercial Carrier:~~

PS _____ FedEx _____ Other _____

Temperature Upon Receipt 20

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4531.02

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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