3R - 097

MONITORING REPORT

04/10/2008

TETRA TECH, INC.

6121 Indian School Rd. NE Suite 200
Albuquerque, NM 87110
(505) 237-8440

April 10, 2008

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 Semi-Annual Report
Flora Vista, New Mexico
(2) ConocoPhillips Shephard & Kelsey #1 2007 Quarterly Report
Bloomfield, New Mexico
(3) ConocoPhillips Federal #15 2007 Annual Report
Farmington, New Mexico
(4) ConocoPhillips B Com #1E 2007 Annual Report
Farmington, 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

Kelly E. Blanchard
Project Manager/Geologist

Enclosures (4)

3R097

2007 QUARTERLY MONITORING REPORT
CONOCOPHILLIPS
SHEPHARD & KELSEY #1
BLOOMFIELD, NM
OCD # 3R0097

RECEIVED
2008 APR 11 PM 1 57

ConocoPhillips

TETRA TECH, INC.

FEBRUARY 2008

QUARTERLY GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS
SHEPHARD & KELSEY #1
BLOOMFIELD, NEW MEXICO

OCD # 3R0097

Prepared for:

ConocoPhillips

420 South Keeler Avenue
Bartlesville, OK 74004

Prepared by:

TETRA TECH, INC.

6121 Indian School Rd NE, Suite 200
Albuquerque, NM 87110
Tetra Tech Project No. 8690041.100

February 20, 2008

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QUARTERLY GROUNDWATER MONITORING REPORT CONOCOPHILLIPS SHEPHARD & KELSEY #1, BLOOMFIELD, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring completed by Tetra Tech, Inc. (Tetra Tech) on November 6, 2007, at the ConocoPhillips Shephard & Kelsey #1 Site in Bloomfield, New Mexico.

The site is located on the southwest side of Bloomfield, New Mexico, south of Highway 64 and the San Juan River. The site consists of an abandoned natural gas production well. All associated equipment and installations at the site have been removed. The location and general layout of the Shephard & Kelsey #1 site are shown on Figures 1 and 2, respectively.

In response to landowner concerns following a hydrocarbon release, On Site Technologies (Onsite) conducted a site investigation in the area of a former unlined earthen pit and existing production tank used to store separator waste water. On September 30, 1996, Onsite advanced two test holes with a hand auger to the shallow groundwater table located approximately 3.5 to 4 feet below ground surface (bgs). One test hole was advanced adjacent to the production tank and one at a presumed downgradient location. Samples collected from both test holes were below laboratory detection limits for benzene, toluene, ethylbenzene, xylenes (BTEX), and total petroleum hydrocarbons (TPH). Onsite returned to the site on November 11, 1996, and advanced two additional test holes immediately adjacent to the tank and discovered impacts in both the soil and groundwater on the northeast side of the tank. On February 13, 1997, soils were excavated from the former pit area until delineation of contamination was achieved (to a practical extent due to site equipment placement); confirmatory samples were then collected.

Monitoring wells (MW-NE, DG 1, SB-12, UG 1, UG 2, and DG-MW) were subsequently installed at the site. With the exception of monitor well SB-12, all monitoring wells have reached compliance with concentrations below the New Mexico Water Quality Control Commission (NMWQCC) standards and are no longer sampled. The November 2007 sample collected from SB-12 represents the sixth consecutive quarter of results below the NMWQCC standards for the well.

Results from recent sampling events for monitor well SB-12 are summarized below.

May 2006 sampling event

Benzene was detected at a concentration of 12 micrograms per liter (µg/L), which is slightly above the NMWQCC standard of 10 µg/L. Ethylbenzene and xylenes were detected at concentrations of 1 µg/L and 3 µg/L, respectively.

August and November 2006 sampling events

No BTEX constituents were detected. All concentrations were lower than laboratory detection limits.

February 2007 sampling event

Ethylbenzene and xylenes were detected at concentrations of 3 µg/L and 1 µg/L, respectively. Benzene and toluene were not detected.

May 2007 sampling event

Ethylbenzene was detected at a concentration of 2 µg/L. Benzene, toluene, and xylenes were not detected.

August 2007 sampling event

No BTEX constituents were detected. All concentrations were lower than laboratory detection limits.

2.0 METHODOLOGY AND RESULTS

The following subsections describe the groundwater monitoring methodology and sampling analytical results.

2.1 Groundwater Monitoring Methodology

Groundwater Elevation Measurements

On November 6, 2007, groundwater elevation measurements were recorded in monitor wells DG-1, SB-12, UG-1, UG-2, DG-MW, and MW-1. A groundwater elevation measurement could not be taken from monitor well MW-NE due to damage to the casing. Groundwater elevation measurements for monitor wells UG-1 and DG-1 were not used in the formation of the contour map due to possible errors associated with broken casings. Table 1 presents the monitor well specifications and groundwater level data. A groundwater elevation contour map is presented in Figure 3.

Groundwater sampling

Groundwater samples were collected from monitor well SB-12 during this sampling event. Approximately 2 gallons of water, or three well volumes, were purged from the well before sampling. A 1.5-inch dedicated, clear, poly-vinyl, disposable bailer was used to collect the groundwater samples. The groundwater samples were contained 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 using Environmental Protection Agency (EPA) Method 8260B.

2.3 Groundwater Sampling Analytical Results

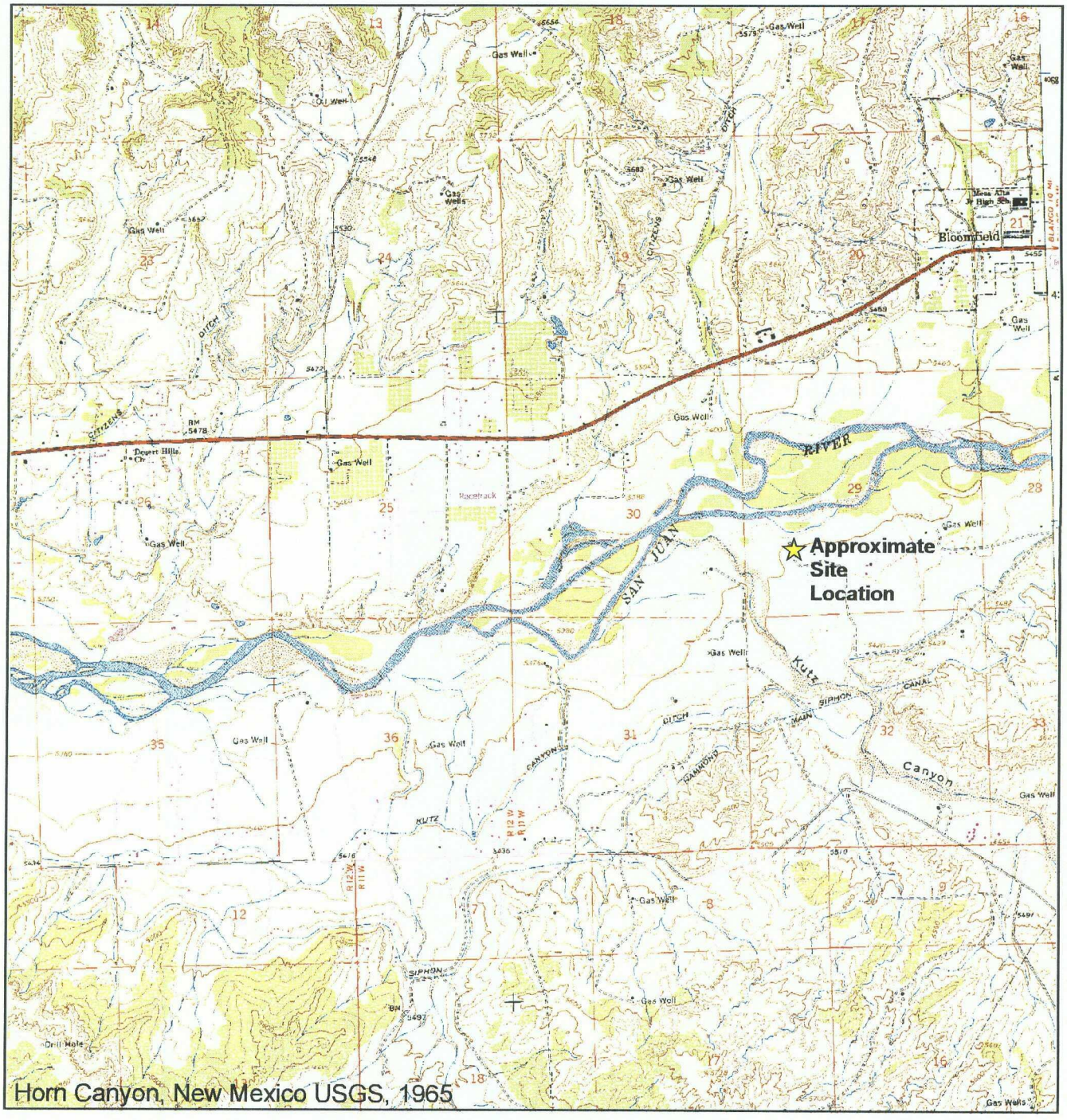
The November 2007 analysis of groundwater collected shows concentrations of BTEX were below laboratory detection limits in monitor well SB-12. Table 2 presents the historical laboratory analytical results. The field groundwater sampling forms are presented in Appendix A. The laboratory analytical report is included as Appendix B.

3.0 CONCLUSIONS

The November 6, 2007 sampling event represents the sixth consecutive quarter of results indicating concentrations of BTEX in monitor well SB-12 below NMWQCC standards. Based on the work performed at

this site, Tetra Tech recommends continuation of quarterly sampling until eight consecutive quarters of results below NMWQCC standards are attained. If you have any questions or require additional information please contact Kelly Blanchard at Tetra Tech at 505-237-8440 or kelly.blanchard@tetratech.com.

FIGURES



1/2

0 1 mile

☆=Approximate Site Location

N

TETRA TECH, INC.

FIGURE 1.
SITE LOCATION MAP
CONOCOPHILLIPS
SHEPHARD & KELSEY #1
Bloomfield, New Mexico

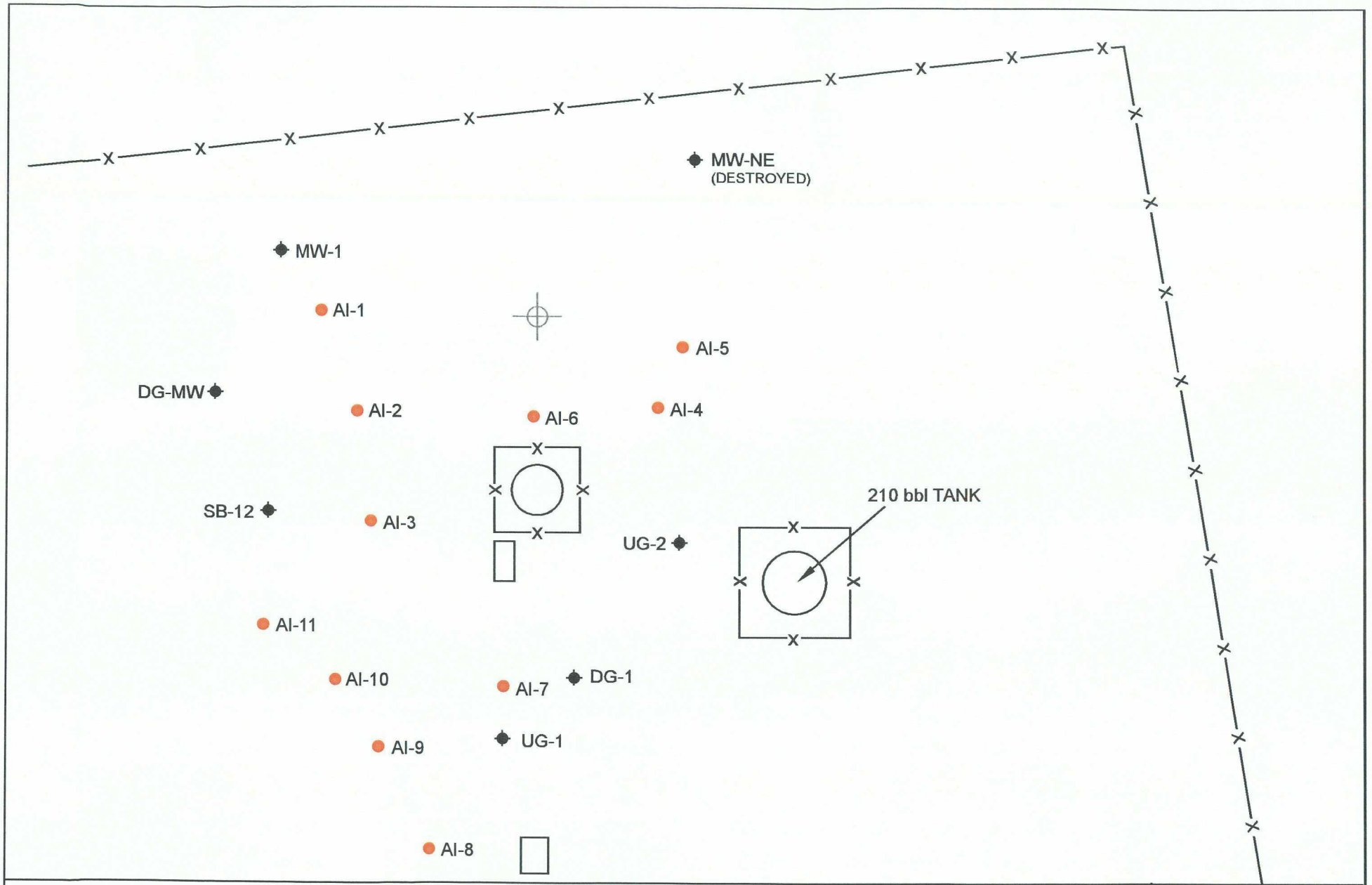


FIGURE 2:
CONOCOPHILLIPS
SHEPHARD KELSEY #1
SITE LAYOUT MAP

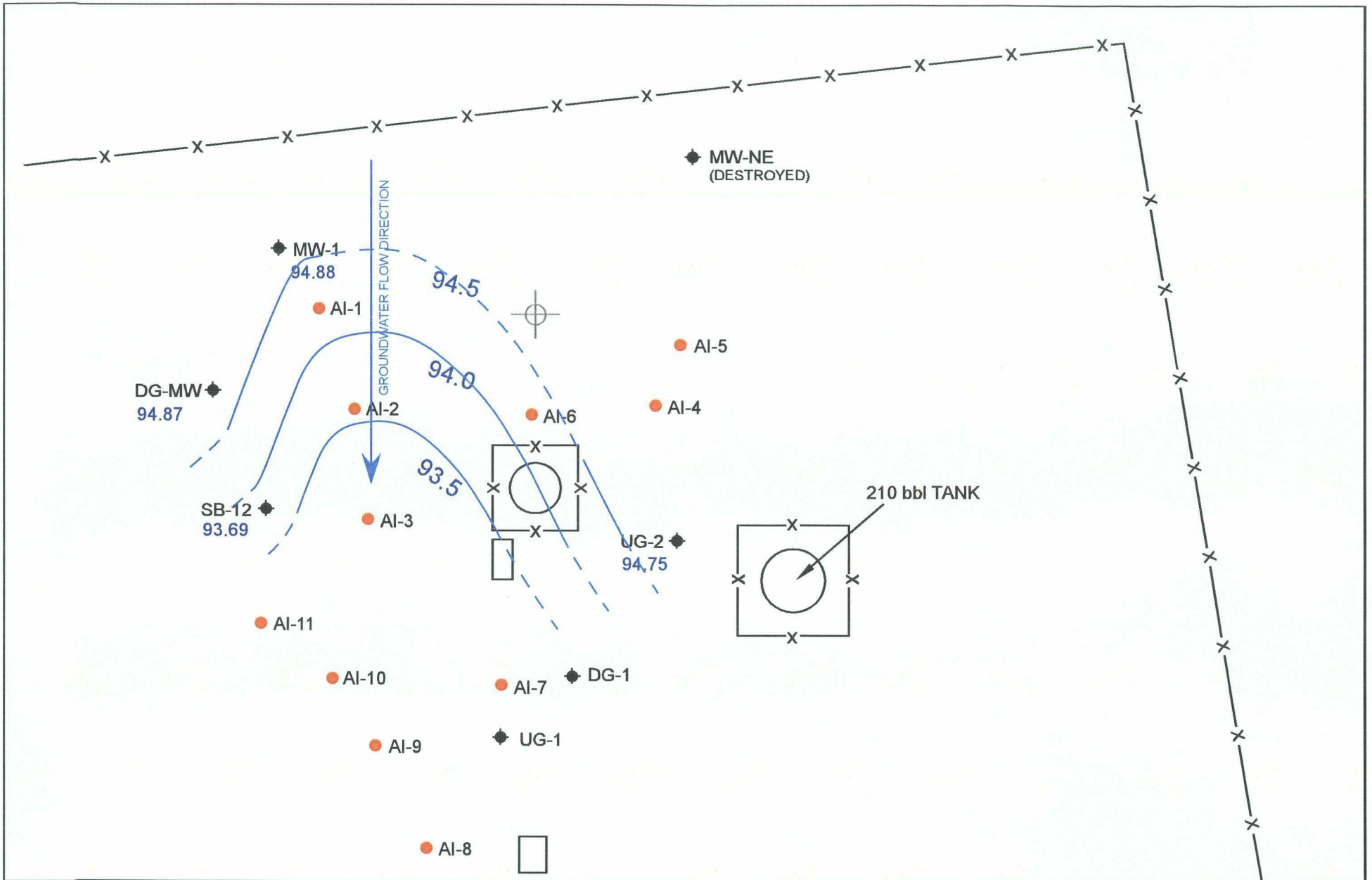


FIGURE 3:
CONOCOPHILLIPS
SHEPHARD KELSEY #1
GROUNDWATER ELEVATION
CONTOUR MAP (11/6/2007)

TABLES

Table 1. ConocoPhillps Shephard & Kelsey #1 Monitoring Well Specifications and Groundwater Elevation Table

Well ID	Total Depth (ft. bgs)	Screen Interval (ft)	Elevation[1] (ft.) (TOC)	Date Measured	Groundwater Level (ft TOC)	Relative Groundwater Elevation (ft TOC)
MW-NE	5.42	4	100.75	5/10/2005	5.250	95.5
				11/21/2005	5.920	94.08
				2/17/2006	6.100	94.65
				5/16/2006	6.400	94.35
				8/1/2006	7.24[3]	92.76
				11/16/2006	6.51[4]	unknown
				2/21/2007	6.04[4]	unknown
				5/14/2007	unknown	unknown
				8/20/2007	6.710	94.040
				11/6/2007	5.870	94.880
DG-1	9.05	4	100.23	5/10/2005	5.550	94.68
				11/21/2005	5.950	94.94
				2/17/2006	5.840	94.39
				5/16/2006	5.900	94.33
				8/1/2006	6.730	93.5
				11/16/2006	5.45[4]	unknown
				2/21/2007	5[4]	unknown
				5/14/2007	4.89[4]	unknown
				8/20/2007	6.530	93.700
				11/6/2007	5.8[2]	unknown
SB-12	11.31	4	100	5/10/2005	5.030	94.97
				11/21/2005	6.010	93
				2/17/2006	5.760	94.24
				5/16/2006	5.730	94.27
				8/1/2006	7.080	92.92
				11/16/2006	5.78[4]	unknown
				2/21/2007	6.4[4]	unknown
				5/14/2007	5.32[4]	unknown
				8/20/2007	7.060	92.940
				11/6/2007	6.310	93.690
UG-1	9.83	4	100.49	5/10/2005	4.02[2]	unknown
				11/21/2005	5[2]	unknown
				2/17/2006	4.82[2]	unknown
				5/16/2006	5.15[2]	unknown
				8/1/2006	6.32[3]	unknown
				11/16/2006	5.35[4]	unknown
				2/21/2007	4.81[4]	unknown
				5/14/2007	4.84[4]	unknown
				8/20/2007	6.230	94.260
				11/6/2007	5.45[2]	unknown
UG-2	9.84	4	100.4	5/10/2005	5.790	94.61
				11/21/2005	5.420	95.81
				2/17/2006	5.330	95.07
				5/16/2006	5.130	95.27
				8/1/2006	6.410	93.99
				11/16/2006	5.18[4]	unknown
				2/21/2007	4.71[4]	unknown
				5/14/2007	4.62[4]	unknown
				8/20/2007	6.370	94.030
				11/6/2007	5.650	94.750
DG-MW	5.42	4	100.67	could not locate		unknown
				8/20/2007	6.71	93.96
				11/6/2007	5.8	94.87

ft = Feet
TOC = Top of casing
bgs = below ground surface
[1] Elevation relative to MW-NE TOC
[2] Groundwater depth anomolous due to broken casing
[3] Casing has been repaired and extended
[4] Casing has been repaired and cut down

Table 2. ConocoPhillips Shephard & Kelsey #1 Groundwater Analytical Results Summary

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
SB-12	6/14/2001	**42**	5.5	72	370
	9/19/2001	**111**	BDL	120	**810**
	12/13/2001	**28**	BDL	63	322.9
	3/12/2002	**64**	BDL	56	211.4
	6/19/2002	**130**	BDL	76	380
	9/17/2002	**40**	BDL	51	245.1
	3/20/2003	**53**	10	41	213
	6/11/2003	**370**	BDL	19	53.8
	10/6/2003	6.1	BDL	30	182
	1/30/2004	**12**	BDL	16	74.2
	4/26/2004	**45**	BDL	21	100
	5/10/2005	**24**	<0.7	18	140
	11/21/2005	<0.5	<0.7	14	68
	2/17/2006	7	<0.7	4	12
	5/16/2006	**12**	<0.7	1	3
	8/1/2006	<0.5	<0.7	<0.8	<0.8
	11/16/2006	<0.5	<0.7	<0.8	<0.8
	2/21/2007	<0.5	<0.7	3	1
	5/14/2007	<0.5	<0.7	2	<0.8
	8/20/2007	<0.5	<0.7	<0.8	<0.8
	11/6/2007	<0.5	<0.7	<0.8	<0.8
MW-1	8/20/2007	<0.5	<0.7	<0.8	<0.8
DG-MW	8/20/2007	<0.5	<0.7	0.9	7
UG-1	8/20/2007	<0.5	<0.7	<0.8	<0.8
UG-2	8/20/2007	<0.5	<0.7	<0.8	<0.8
DG-1	8/20/2007	<0.5	<0.7	<0.8	<0.8
NMWQCC Standards		**10 (µg/L)**	**750 (µg/L)**	**750 (µg/L)**	**620 (µg/L)**

NMWQCC = New Mexico Water Quality Control Commission
µg/L = micrograms per liter (parts per billion)
BDL = Below laboratory detection limits; detection limit not specified
<x = Below laboratory detection limits

APPENDIX A

Field Groundwater Sampling Form

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: Shephard & Kelsey #1 — Page 1 of 1

Project No.: 1158690041

Site Location: Bloomfield, NM

Site/Well No.: SB-12 — Coded/ Replicate No.: — Date: 11/6/2007

Weather: sunny, 65° — Time Sampling Began: 12:00 — Time Sampling Completed: 13:00

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: — MP Elevation: —

Total Sounded Depth of Well Below MP: 12.3 bgs — Water-Level Elevation: —

Held: — Depth to Water Below MP: 6.31 — Diameter of Casing: 2 inches

Wet: — Water Column in Well: 6.28 — Gallons Pumped/Bailed Prior to Sampling: 3 gallons; bailed dry

Gallons per Foot: 0.16

Gallons in Well: 1.0048 — Sampling Pump Intake Setting (feet below land surface): —

Purging Equipment: —

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature	pH	Conductivity	ORP	TDS (g/L)	DO
12:54	**15.91**	**7.55**	**2874**	**-139.6**	**1.475**	**3.62**

Sampling Equipment: Bailer

Constituents Sampled	Container Description	Preservative
BTEX	3 VOAs	HCl

Remarks: Duplicate sample collected; water gray in color

Sampling Personnel: Mitch Crooks and Ana Moreno

Well Casing Volumes

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

APPENDIX B

Laboratory Report

Lancaster Laboratories

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

Analysis Report

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 1064413. Samples arrived at the laboratory on Wednesday, November 07, 2007. The PO# for this group is 4506560639 and the release number is LAUCK.

Client Description	Lancaster Labs Number
SB-12 Grab Water Sample	5206181
Duplicate Grab Water Sample	5206182
Trip Blank Water Sample	5206183

ELECTRONIC COPY TO Tetra Tech Attn: Kelly Blanchard

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

Respectfully Submitted,

Christine Dulaney
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5206181

SB-12 Grab Water Sample
Site# 6083
Shephard&Kelsey #1, NM

Collected:11/06/2007 12:30 by MC

Account Number: 11288

Submitted: 11/07/2007 09:30
Reported: 11/13/2007 at 13:16
Discard: 12/14/2007

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

SHP12

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	11/10/2007 11:37	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/10/2007 11:37	Stephanie A Selis	1

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

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5206182

Duplicate Grab Water Sample
Site# 6083
Shephard&Kelsey #1, NM

Collected:11/06/2007 13:00 by MC

Account Number: 11288

Submitted: 11/07/2007 09:30
Reported: 11/13/2007 at 13:16
Discard: 12/14/2007

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

SHPFD

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	11/10/2007 11:59	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/10/2007 11:59	Stephanie A Selis	1

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

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5206183

Trip Blank Water Sample
Site# 6083
Shephard&Kelsey #1, NM

Collected:11/06/2007 13:25

Account Number: 11288

Submitted: 11/07/2007 09:30
Reported: 11/13/2007 at 13:16
Discard: 12/14/2007

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

SHPTB

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	11/10/2007 10:52	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/10/2007 10:52	Stephanie A Selis	1

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

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: ConocoPhillips Group Number: 1064413
Reported: 11/13/07 at 01:16 PM

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: L073141AA	Sample number(s): 5206181-5206183								
Benzene	N.D.	0.5	5.	ug/l	90	89	78-119	1	30
Toluene	N.D.	0.7	5.	ug/l	92	91	85-115	1	30
Ethylbenzene	N.D.	0.8	5.	ug/l	94	93	82-119	0	30
Xylene (Total)	N.D.	0.8	5.	ug/l	89	89	83-113	0	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: L073141AA	Sample number(s): 5206181-5206183 UNSPK: P206164								
Benzene	133 (2)		83-128						
Toluene	104		83-127						
Ethylbenzene	117		82-129						
Xylene (Total)	119		82-130						

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: L073141AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5206181	105	97	104	104
5206182	105	95	104	101
5206183	104	97	105	101
Blank	104	97	104	99
LCS	105	99	107	105
LCSD	105	98	106	105
MS	106	98	104	104
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 unspiked result was more than four times the spike added.

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Labs Use ONLY Acct. #: 11288 Group # 1064413 Sample#: 5206181-83 SCR#:

008944

Site #: 60083 AOC#: 060083

Site City: Bloomfield State: NM

Enfos PO# Will send ASAP

ConocoPhillips PM: Terry Lauck

Samplers Name: Mitch Crooks / Ann Moreno

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Potable / NPDES / Oil / Air	Analyses Requested: UST 8260 (# of containers)	Remarks
SB-12	11/6/07	1230	X			X		X	
Duplicate	11/6/07	1300	X			X		X	
Trip Blank	11/6/07	1325	X			X		X	

Preservation Codes: #

Preservative Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; O = Other

Consultant Information:

Office City: Albuquerque State: NM

Project Manager: Kelly Henderson

Phone Number: (505) 237 8440 Fax:

Email: Kelly.Henderson@tetratech.com

Electronic Data Deliverables (Circle One): (Yes) / No Format PDF

Reporting Requirements (Circle One)

(Standard Reports/QC Summary) Full Validation (LLI Type I)

NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other

Turnaround Time Requested in Business Days (TAT) (Circle One):

(STD.) 5 day 48 hour 24 hour Other

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/6/07	1630			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Kathy Binkley	Date 11-7	Time 0930

Relinquished by Commercial Carrier:

UPS FedEx ✓ Other

Temperature Upon Receipt 5.6° C°

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 limit of quantitation, 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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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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