3R - 434

MAR 2011 GWMR

06/10/2011

5 K 4 54 6121 Indian School Rd. NE Suite 200 Albuquerque, NM 87110 (505) 237-8440

ECEIVED OCD

JUN 15 P 2: 52



June 10, 2011

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

> RE: ConocoPhillips Company Faye Burdette No. 1 – March 2011 Groundwater Monitoring Report San Juan County, New Mexico

Dear Mr. von Gonten:

Enclosed please find one copy of the above-referenced document as compiled by Tetra Tech, Inc. for this San Juan County area site.

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 (1)

Cc: Brandon Powell, NMOCD (hardcopy) Terry Lauck, ConocoPhillips Company (electronic)

MARCH 2011 QUARTERLY GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS COMPANY

FAYE BURDETTE NO. I NATURAL GAS PRODUCTION SITE SAN JUAN COUNTY, NEW MEXICO

API No. 30-045-09725

OCD No. TBD .

ConocoPhillips

Prepared for:

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

Prepared by:



6121 Indian School Rd. NE Suite 200 Albuquerque, NM 87110 Tetra Tech Project No. 114-690157

May 2011

TABLE OF CONTENTS

1.0	INTRODUCTION	. . I
	I.I Site History	I
2.0	MONITORING SUMMARY, SAMPLING METHODOLOGY, AND	
	RESULTS	I
	2.1 Monitoring Summary	I
	2.2 Groundwater Sampling Methodology	2
	2.2 Groundwater Sampling Analytical Results	2
3.0	CONCLUSIONS	2

FIGURES

I. S	ite L	ocati	ion	Μ	lap
------	-------	-------	-----	---	-----

- 2. Site Layout Map
- 3. Generalized Geologic Cross Section
- 4. Groundwater Elevation Contour Map March 2011

TABLES

- 1. Site History Timeline
- 2. Groundwater Elevation Data Summary (October 2008 through March 2011)
- 3. Groundwater Laboratory Analytical Results Summary (October 2008 through March 2011)

i

APPENDICES

Appendix A. March 2011 Quarterly Groundwater Sampling Field FormsAppendix B. March 2011 Quarterly Groundwater Laboratory Analytical Report

MARCH 2011 QUARTERLY GROUNDWATER MONITORING REPORT FAYE BURDETTE NO. I, SAN JUAN COUNTY, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring completed by Tetra Tech, Inc. (Tetra Tech) on March 16, 2011, at the ConocoPhillips Company Faye Burdette No. I natural gas well site located on private land in Unit Letter G, Section 9, Township 30N, Range 11W of San Juan County, New Mexico (Site). This event represents the eleventh quarter of groundwater sampling conducted by Tetra Tech at the Site.

The Site is located near the intersection of Highway 550 and Pioneer Avenue in Aztec, NM. The Site consists of a gas production well head and associated equipment and installations. The location and general features of the Site are presented as **Figures I** and **2**, respectively. A generalized geologic cross section of the site is included as **Figure 3**.

I.I Site History

The Faye Burdette No. I wellhead was spudded by Southwest Production Company in April 1962. Ownership was transferred to Beta Development Company in September 1963 and again to Mesa Operating Limited Partnership in August 1988. Conoco Inc., predecessor to ConocoPhillips Company, acquired the well in July 1991. A release occurred in May 2007 from a rusted portion of the on-site produced water tank. Evidence of pre-existing hydrocarbon impacted soil was encountered during excavation; possibly related to a former earthen pit. Temporary Monitor Well, MW-1, was drilled by Envirotech in September 2007. Groundwater samples from MW-1 indicate that benzene, toluene, ethylbenzene, and xylenes (BTEX) were below the New Mexico Water Quality Control Commission (NMWQCC) standards. Subsequently, Envirotech recommended plugging and abandoning MW-1 (Envirotech, 2007).

To complete additional investigation and sampling of the Site, as requested by the New Mexico Oil Conservation Division (OCD), Monitor Wells MW-2, MW-3, and MW-4 were installed under the supervision of Tetra Tech during January 2009. All four monitor wells have been incorporated into a quarterly monitoring program that was initiated on January 29, 2009. Site history is outlined in **Table I**.

2.0 MONITORING SUMMARY, SAMPLING METHODOLOGY, AND RESULTS

2.1 Monitoring Summary

On March 16, 2011, groundwater elevation measurements were recorded in Monitor Wells MW-1, MW-2, MW-3, and MW-4 using a dual interface probe. Groundwater elevations are detailed in **Table 2**.

Tetra Tec, Inc.

A groundwater elevation contour map is presented as **Figure 4.** Based on the March 2011 monitoring event data, groundwater flow is to the northwest and is consistent with historic records at this site. The Animas River is approximately 1/3 mile from the site and flows west.

2.2 Groundwater Sampling Methodology

Monitor Wells MW-1, MW-2, MW-3, and MW-4 were sampled, representing the tenth round of consecutive quarterly groundwater monitoring at the Site. Approximately three well volumes were purged from each monitor well with a dedicated polyethylene 1.5-inch disposable bailer. Purge water was placed in the on-site produced water tank. Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain of custody documentation to Southern Petroleum Laboratories in Houston, Texas. The samples were analyzed for the presence of BTEX in accordance with Environmental Protection Agency (EPA) Method 8260B and dissolved manganese according to EPA Method 6010B. Groundwater sampling field forms are included as **Appendix A**.

2.3 Groundwater Sampling Analytical Results

Groundwater quality samples collected during the March 16, 2011 monitoring event indicate that Monitor Well MW-1 exceeds the NMWQCC standard for dissolved manganese at 2.23 milligrams per liter (mg/L). The NMWQCC standard for dissolved manganese is 0.2 mg/L. BTEX concentrations were below laboratory detection limits for all site monitor wells. **Table 3** summarizes the laboratory analytical results for the March 2011 groundwater sampling event. The corresponding laboratory analytical report is included in **Appendix B**.

3.0 CONCLUSIONS

Groundwater samples collected from MW-I have continually exceeded NMWQCC groundwater quality standards for manganese constituents from October 2008 to March 2011. Based on the historical groundwater quality data, groundwater samples collected from MW-I, MW-2, MW-3, and MW-4 have never exceeded NMWQCC groundwater quality standards for BTEX constituents during sampling conducted from October 2008 to March 2011.

Tetra Tech recommends discontinuing BTEX analysis for groundwater samples since Site monitoring wells have never exceeded the NMWQCC standards for those constituents. Quarterly analysis for dissolved manganese will continue in all Site wells. Site closure will be requested when groundwater quality results begin to indicate that all constituents of concern are consistently below NMWQCC groundwater quality standards, stable, or are representative of background conditions at the Site. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetratech.com if you have any questions or require additional information.

REFERENCES

March 2011 Quarterly Groundwater Monitoring Report Faye Burdette No. 1, Aztec, San Juan County, New Mexico

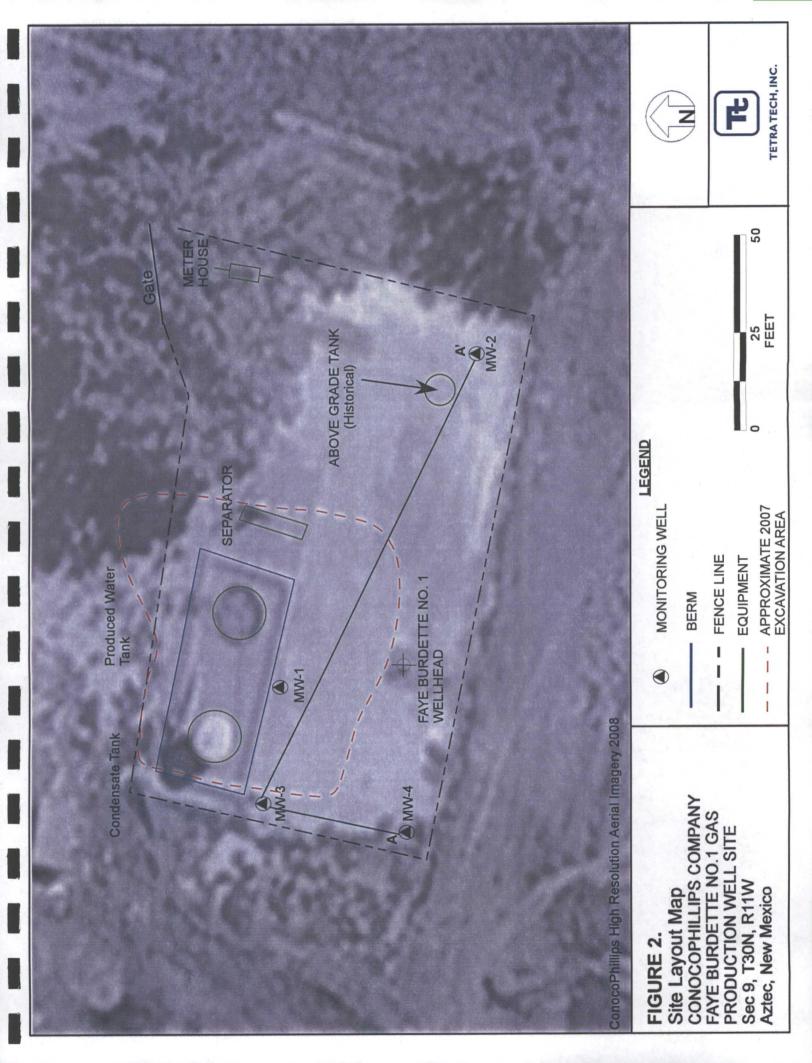
Envirotech, Inc. (2007). Drilling and Groundwater Sampling Report at Faye Burdette No. 1 Aztec, NM. Prepared for ConocoPhillips, dated December 12, 2007.

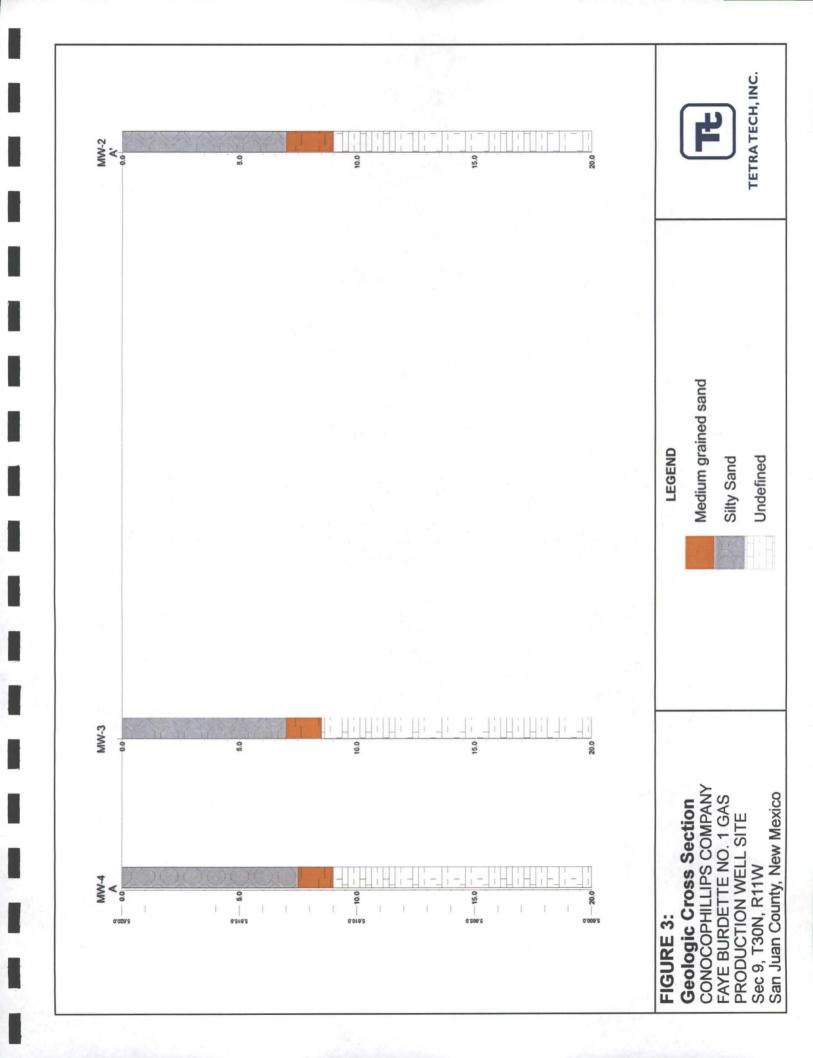
FIGURES

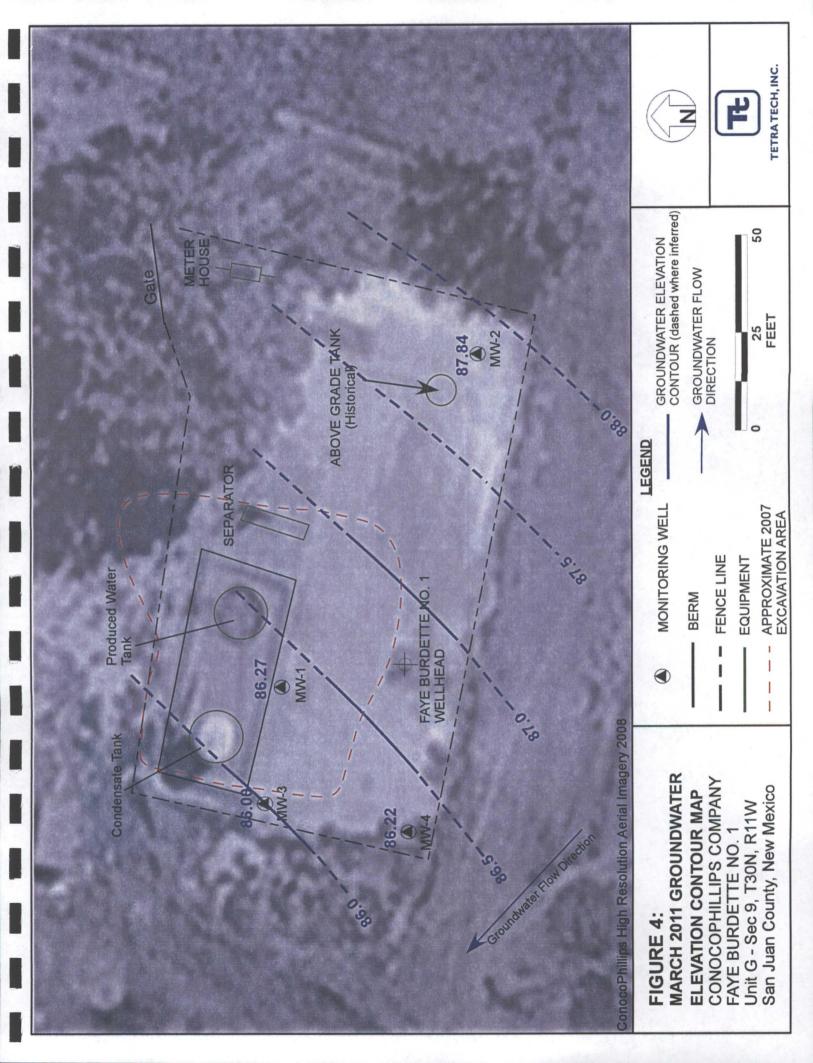
Site Location Map
 Site Layout Map
 Generalized Geologic Cross Section
 Groundwater Elevation Contour Map – March 2011

4.









TABLES

I. Site History Timeline
 2. Groundwater Elevation Data Summary (October 2008 through March 2011)
 Groundwater Laboratory Analytical Results Summary (October 2008 through March 2011)

3.

Table 1. ConocoPhillips Company, Faye Burdette No. - 1 Site History Timeline

DÀTE	ACTIVITY
29-Apr-1962	Well was spudded by Southwest Production Company.
1-Sep-1963	Ownership of well transferred to Beta Development Company.
21-Feb-1983	NMOCD inspection noted a leaky 2-inch valve on a storage tank.
15-Aug-1988	Ownership of well transferred to Mesa Operating Limited Partnership.
1-Jul-1991	Ownership of well transferred to Conoco Inc.
24-May-2007	A small (<25 gallons) release occurred from the produced water tank after a rusty spot was scraped off. Follow-up excavation encountered evidence of pre-existing hydrocarbon-impacted soil, apparently related to a former earthen pit beneath the tank.
Jul-07	Contaminated soil excavated from the Site. Two ground water samples were obtained at the time of this excavation, and one (1) of these samples was found to contain total xylenes above the State of New Mexico drinking water standard.
26-Sep-07	Ground water monitoring well installed to a depth of 15 feet below ground surface (bgs) by Envirotech Inc. of Farmington, NM (Envirotech). A soil sample obtained from the well boring was analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH). Results were below NMOCD regulations of 10 parts per million (ppm), 50 ppm, and 100 ppm, respectively.
	A ground water sample was collected from the temporary monitoring well (MW-1) and analyzed for BTEX; results were below the State of New Mexico drinking water standard for this constituent. Depth to ground water recorded at 9.5 feet bgs.
Nov-07	Envirotech report recommends plugging and abandonment of the temporary ground water monitoring well and a no further action determination for the Site (Envirotech, 2007).
Apr-08	Oil Conservation Division of NM Energy, Minerals, and Resources Dept. indicates additional investigation and sampling is necessary for closure consideration during a meeting with Glenn Von Gonten.
22-Oct-08	1st quarter sampling of MW-1 conducted by Tetra Tech.
Jan-09	WDC Exploration and Wells of Peralta, NM installed additional Monitoring Wells MW-2, MW-3 and MW-4 under the supervision of Tetra Tech.
29-Jan-09	Second quarter sampling of MW-1 conducted by Tetra Tech. Initial sampling of Monitoring Wells MW-2, MW-3, and MW-4.
31-Mar-09	Third consecutive quarter of sampling MW-1 conducted by Tetra Tech. Second quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4.
17-Jun-09	Fourth consecutive quarter of sampling MW-1 conducted by Tetra Tech. Third quarter of sampling Monitoring Wells MW-2, MW-3, and MW-4.
22-Sep-09	Fifth consecutive quarter of sampling MW-1 by Tetra Tech. Fourth consecutive quarter of sampling Monitoring Wells MW-2, MW-3, and MW-4. Sampling for total metals discontinued as approved by NMOCD. Sampling for select dissolved metals based on total metals analyses begins.
16-Dec-09	Sixth consecutive quarter sampling of MW-1 conducted by Tetra Tech. Fifth consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only.
1-Apr-10	Seventh consecutive quarter sampling of MW-1 conducted by Tetra Tech. Sixth consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only.
9-Jun-10	Eighth consecutive quarter sampling of MW-1 conducted by Tetra Tech. Seventh consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only.
20-Sep-10	Ninth consecutive quarter sampling of MW-1 conducted by Tetra Tech. Eighth consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only.
17-Dec-10	Tenth consecutive quarter sampling of MW-1 conducted by Tetra Tech. Ninth consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only.
16-Mar-11	Eleventh consecutive quarter sampling of MW-1 conducted by Tetra Tech. Tenth consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only. Tetra Tech recommended that sampling for BTEX be discontinued.

Table 2. ConocoPhillips Company, Faye Burdette No. 1 - Groundwater Elevation Data Summary

Well ID	Total Depth (ft bgs)	Screen Interval (ft)	*Elevation (ft) (TOC)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation
				10/22/2008	10.91	86.75
				1/29/2009	11.72	85.94
				3/31/2009	11.88	85.78
				6/17/2009	11.24	86.42
		·		9/22/2009	10.87	86.79
MW-1	17.52	4.8 - 14.8	97.66	12/16/2009	11.56	86.10
•	• *			4/1/2010	11.91	85.75
	· .			6/9/2010	11.31	86.35
				9/20/2010	11.39	86.27
				12/17/2010	11.06	86.60
				3/16/2011	11.39	86.27
				1/29/2009	10.91	87.63
	, i			3/31/2009	11.12	87.42
	· .			6/17/2009	10.48	88.06
· .				9/22/2009	10.76	87.78
MW-2	19.45	5.0 - 20.0	98.54	12/16/2009	10.61	87.93
	10.10			4/1/2010	11.20	87.34
				· 6/9/2010	10.35	88.19
· .			•	9/20/2010	10.35	88.19
			• • •	12/17/2010	10.10	88.44
-		÷		3/16/2011	10.70	87.84
			• *	1/29/2009	11.44	85.72
		•		3/31/2009	11.62	85.54
	· ·		• .	6/17/2009	10.97	86.19
				9/22/2009	10.57	86.59
MW-3	22.96	5.0 - 20.0	97.16	12/16/2009	· 11.32	85.84
			•••••	4/1/2010	11.66	85.50
				6/9/2010	11.10	86.06
	, ,			9/20/2010	11.17	85.99
		·		12/17/2010	10.84	86.32
		• •		3/16/2011	11.16	86.00
				1/29/2009	11.02	86.04
•	,		• • •	3/31/2009	11.18	85.88
				6/17/2009	10.59	86.47
				9/22/2009	10.16	86.90
MW-4	22.28	5.0 - 20.0	97.06	12/16/2009	10.87	86.19
ς				4/1/2010	11.04	86.02
·~ .	· .			6/9/2010	10.65	86.41
				9/20/2010	10.72	86.34
				12/17/2010	10.46	86.60
				3/16/2011	10.84	86.22

ft = Feet

TOC = Top of casing

bgs = below ground surface

* Elevation relative to an arbitrary point set at 100 feet

5/18/2011

I able 3. Conocomultips Company, Faye Burdette No.	s company, raye pur	-11	or oundwate	- Groundwater Laboratory /	Anarytical Results	Telester	Esterilization	
Well ID	Date	(ma/L)	(ma/L)	manganese (ma/L)	(חמ/ך)	(na/L)	Luryibenzene (µq/L)	Total Xylenes (μg/L)
	10/22/2008	AN	3.74*	2.09*	< 5	<5	< 5 < 5	< 5 .
	1/29/2009	2.14*	2.77*	1.41*	< 5	< 5 <	< 5	<5
	3/31/2009	3.64*	4 83*	1 24*	2 V V) Y Y Y Y Y Y	< 5	< 5
•	6/17/2009	2.5*	5.58*	2.47*	× 5	×5 ×	< 5	<5
	9/22/2009	0.443	0.445	1.44	۲	₽	4	4
MW-1	12/16/2009	AN	AN	0.732	Ł	₽ V	· <1	۲
	4/1/2010	AN	NA	1.71	<1	4	<1	<1 .
	6/9/2010	NA	٩N	1.61	<1	2	<1	<1
	9/20/2010	AN	ΥN	0.895	٢	ŕ	4	2
	12/17/2010	AA	٩X	0.773	5	£	4	4
	3/16/2011	AN	AN	2.23	Ŷ	ŗ	£.	Ŷ
•	1/29/2009	A	AN	AN	< 5 <	× 5 ۲	< 5	< 5
	3/31/2009	AN	AN C	AN	v 2	2 2 2	< 5	< 5
	6/17/2009	2.83	6.13*	2.52*	<u>،</u>	• 2 • 2	<5	< 2 <
•	9/22/2009	AN S	AN I	¥.	۲,	₽,	₽ V	v,
MW-1 Duplicate	12/16/2009	AN	AN	AN	₽ ₹	5	5	√ ₹
	4/1/2010	AN N	AN AN	AN N	7	7 7	7	
•	012/12/10				7 5	7	- - -	7 2
•	12/17/2010	AN	AN	AN	, .	7 5	7	7 5
	3/16/2011	NA	AN	AN	v	- -	- - -	- -
	1/29/2009	4.15*	3.15*	1.79*	< 5 <	< 5 <	< 5	<5
	3/31/2009	1.17*	1.02*	0.326*	< 5 < 5	< 5 <	< 5 < 5	< 5
-	6/17/2009	3.4*	2.8*	1.37*	< 5 <	< 5	< 5	- - -
	9/22/2009	<0.1	<0.02	0.0264	<u>۲</u>	. <1	<1 .	<1 .
MW-2	12/16/2009	NA	AN	0.0654	٠ ۲	٠ ۲	<1	4
	4/1/2010	AN	M	· 0.16	۲	⊽	4	₽
· ·	6/9/2010	AA	Ą	0.0323	₽ 	₽,	£	Ţ
	9/20/2010	¥.	A S	0.0455	ŕ.	₹ I	۲	£.
	12/17/2010	A	AN	0.0332	۲.	v	₽	⊽
	3/16/2011	AN	٩N	0.0265	Ŷ	⊽	£	Ŷ
	1/29/2009	1.82*	2.24*	0.374*	< 5	ۍ ۲	< 5	< 5
	3/31/2009	1.64*	1.91*	0.271*	د ۲	< 5	< 5	. < 5
	. 6/17/2009	1.68*	2.14*	0.628*	v v	۰ 2	. <5	• 5 •
	9/22/2009	<0.1	0.0291	0.0201	ţ,	V	5	
MW-3	12/16/2009	AN N	AA	0.0607	₽ ,	₽ 1	4	
	4/1/2010	AN	AN AN	0.0232	7	7	7	7
	013/2010			0.005	7	7	77	/ \
	12/17/2010	AN	AN	0.178	7 5	/ V	V	7 ₹
	3/16/2011	NA	AN	0.0424	v	v	V	•
	1/29/2009	6.92*	3.17*	4.15*	< 5	< 5	< 5	< 5
	3/31/2009	4.21*	3.22*	1.45*	< 5	< 5	< 5	<5
	6/17/2009	2.43*	2.05*	0.854*	< 5	< 5	< 5	< 5
	9/22/2009	<0.1	0.108	0.476	4	۲	<u>۲</u>	2
MW-4	12/16/2009	AA	Ą	0.0149	⊽	£	•	4
	4/1/2010	AN	AN	< 0.005	<1	ŗ.	£	. <1
	6/9/2010	AA	¥	< 0.005	Ţ.	2	⊽	2
	9/20/2010	AN	AA	0.0152	5 ₹	5 2	₹ ₹	<u>,</u>
	3/16/2011	AN	AN	<0.005	7	7 5	V	•
Method		SW6010B	SW6010B	SW6010B	8260B	8260B	8260B	8260B
NMWUCU Groundwater Quality Standard	ter quality standard	0.6	0.1	0.2	01	06/	0¢/	620

Table 3. ConocoPhillips Company. Fave Burdette No. 1 - Groundwater Laboratory Analytical Results

Notes:

Muxes monitoring well NMWGCC = New Mexico Water Quality Control Commission Constituents in BOLD exceed NMWQCC groundwater quality standards constituents analysis per liter NA = not analyzed A = not analyzed C = result below laboratory detection limit C = test thelow laboratory detection limit Total Metals analysis run for all samples through June 2009; September 2009 dissolved metals analysis run in order to compare to standards = total metals analysis run for all samples through June 2009; September 2009 dissolved metals analysis run in order to compare to standards = total metals analysis run for all samples through June 2009; September 2009 dissolved metals analysis run in order to compare to standards

5/18/2011

1 of 1

APPENDIX A

	TECH, INC.		WATER S	SAMPLING F	IELD FOF	RM		
Project Name	Faye Burdette No. 1			<u> </u>	Page	ə <u>1</u>	of	4
°∋ct No.			· · ·			•		•
Site Location	Aztec, NM			·				
Site/Well No.	<u>MW-1</u>	Coded/ Replicate No.	1^-	150	Date	3.6.		
Weather	SUMMY Dreep!	Time Sampling Began		725	Time Samplir Completed	וg 	174	5
· ·	100	•	EVACUATIO	ON DATA			•	
Description of	Measuring Point (MP) Top	of Casing	•	· .				· · · · · · · · · · · · · · · · · · ·
Height of MP	Above/Below Land Surface		· · · ·	MP Elevation				97.66
Total Sounded	Depth of Well Below MP	17.52		Water-Level Elev	vation		86	.27
Held	Depth to Water Below MI	11.39		Diameter of Cas		· · · · · · · · · · · · · · · · · · ·	·	
Wet	Water Column in We	<u><u><u></u></u><u>(e.13</u></u>		Gallons Pumped Prior to Sampling		ped/Bailed) 3	<u>2.00 </u>
	Gallons per Foo	t). <u>16</u>		Intoka Cattlera			
	Gallons in We	<u>0.98</u>	3.5	Sampling Pump (feet below land		· · ·		
Purging Equip	ment Purge pump //Bail	er K.	14		·	· · ·	·	
Time						DO %		Valuma (agl.)
Time	Temperature (°C)	pH Condu	1000000000000000000000000000000000000) TDS (g/L) (200)	DO (mg/L)	270	ORP (mV)	Volume (gal.)
1840	11.63	1.12 1	.060	0.925	2.86	26.	-21.5	2.5
1742	11.62 -	7.10	058	0.923	2.40	22.1	-25,5	3.0
							· ·	· ·
L			<u>}</u>			<u></u>]
Sampling Equi		ge Pump/Bailer) .	· · · · · · · · · · · · · · · · · · ·				
	tuents Sampled		ainer Descriptio		· ·	Preser	<u>rvative</u>	·
BTEX		3 40mL VOA's			HCI	·		· · · · ·
Dissolved Mn		16 oz Plastic			None			
					<u> </u>	•		
Remarks	Hed is bri	aunish-0	vainge.	no ode	sr or	sheer	1 obse	vued-
Sampling Pers	connel Christine Mathews	s, Cassie Brown	<u> </u>	· .				
•	·		Well Casing	Volumes				:
•	Gal./ft. 11/4" = 0.07	7 2"	= 0.16	•	0.37	4" = 0.65		
	$1\frac{1}{2}^{u} = 0.10$		= 0.24		0.50	6" = 1,46		
	L	and the second sec					1	

	TECH, INC.		WATER S	AMPLING F	IELD FOR	M		
Project Name	Faye Burdette No. 1	·			Page	2	of	4
ject No.			۰.					
Site Location	Aztec, NM							
Site/Well No.	<u>MW-2</u>	Coded/ Replicate No.			Date	<u>3.16.</u>	l/	
Weather	BUTINY brees	Time Samplir Began	" 17 <u>75</u>	· .	Time Samplin Completed	<u> 75</u>	5	
· ·	-100	•	EVACUATIO	N DATA				•
Description of	Measuring Point (MP)	Top of Casing			•			
Height of MP	Above/Below Land Surfa	ice		MP Elevation				_98.
Total Sounded	Depth of Well Below M	P 4551	9.45	Water-Level Ele	evation	-	<u> </u>	87.84
Held	_ Depth to Water Belo	WMP 10:70)	Diameter of Ca		· · .		
Wet	Water Column ir	Well 8.7.	5	Gallons Pumpe Prior to Samplir		ped/Bailed) 4 /	25
,	Gallons per	Foot	0.16					
	Gallons in	Well 1.4/2	=(4.2)	Sampling Pump (feet below land	lntake			·
Purging Equip	ment Purge pump /	Bailer	<u> </u>					
			LING DATA/FIEL				· · ·	
Time 1747	Temperature (°C)		nductivity (µS/cm³		DO (mg/L)	D0%	ORP (mV) 4.2	Volume (ga
1749	12.07	7.31	881	0.744	3.40 3.34	<u>31. 7</u>	12.7	3.75
1751	12.90	7.32	283	0.747	3.49	33.1	19.8	4.25
				• •				
Sampling Equi	pment	Purge Pump/Bailer)	·			· · · · ·	
Consti	tuents Sampled	Co	ntainer Descriptio	n	•	Prese	rvative	
BTEX		3 40mL VOA	s		HCI			<u> </u>
Dissolved Mn	• • •	16 oz Plastic		· · ·	None	. •		
		. ·	·					
5	Mainlan	: Ne orlon	r or Aue	1.1000				
Remarks	Mao istan)		n alken	1			
Sampling Pers	onnel <u>Christine Mati</u>	news, Cassie Brown	<u>.</u>					
			Well Casing	Volumes				
								L
	Gal./ft. $1\frac{1}{4}^{u} = (1\frac{1}{2})^{u} = (1\frac{1}{2})^{u} = (1\frac{1}{2})^{u}$		= 0.16 " = 0.24	3" = (3" ½ = (D.37	4" = 0.65 6" = 1.46		[

.

· ·

Project Name Fage 3 of 4 Act No.	TETRA	TECH, INC.	N	ATER SA	MPLING FI		A		
Site Location Aztec, NM Site Weil No. MW-3 Westher MANL MILLS Time Sampling T750 Began T750 Evacuation Data Sampling Description of Measuring Point (MP) Top of Casing Height of MP Above/Below Land Surface MP Elevation Path 2796* ZZ96* ZZ96* Wet Water Column in Weit Hill Depth to Well Below MP ZZ96* ZZ96* Wet Water Column in Weit Hill Calions Purpod/Bailed Prior to Sampling 2* Galions per Foot 0.16 Galions in Weit HBBUXS; (feet below land surface) Sampling Pump Intake Setting Purging Equipment Purge pump Failer StappLing DATAFIELD PARAMETERS Sampling DO (mg/L) Sampling Equipment Purge Pump/Ealer Sampling Equipment Purge Pump/Ealer Constituents Sampled Container Description Sampling Equipment Purge Pump/Ealer Constituents Sampled Container Description	Project Name	Faye Burdette No. 1			<u></u>	Page	3	of _	4
Site/Well No. MW-3 Coded/ Replicate No. Date B:10.1 Weather With the Sampling Top of Casing Top of Casing Time Sampling Completed Time Sampling Completed BCS Description of Measuring Point (MP) Top of Casing Weather MP Elevation 97.16 Height of MP Above/Below Land Surface MP Elevation 97.16 97.16 Height of MP Above/Below Land Surface MP Elevation 97.16 Height of MP Above/Below MP 11.10 Diameter of Casing Gailons Pumped/Bailed 2" Wet Water Column in Wel 11.710 Prior to Sampling Pumped/Bailed 5.75 Gailons per Foot 0.18 Sampling Pump Intake Setting 180.20 5.75 Gailons in Well 1188/X.5 Sampling Pump Intake Setting 180.20 30.00 30.55 47.39 47.75 Sampling Equipment Purge pumpe Bailer 0.18 Conductivity (us/cm*) 100 % 6.08P (mV Volume (pill) ISO 12.02 13.05 7.22 18.1 0.826 3.00 30.55 47.32 5.255 I and I	,ect No.				<u> </u>	•		• •	
Site/Weil No. MW-3 Replicate No. Date Site/Will Weather MMW, MULAL Time Sampling T50 Time Sampling Completed 1805 Weather MP Top of Casing EVACUATION DATA EVACUATION DATA Description of Measuring Point (MP) Top of Casing EVACUATION DATA 86.00 Height of MP Above/Below Land Surface MP Elevation 97.16 Total Sounded Depth of Weit Below MP 22.95 22.972 Water-Level Elevation 96.00 Heid Depth to Water Below MP 11.10 Diameter of Casing 2' 2' Wet Water Column in Weit 11.710 Prior to Sampling Pumped/Balled 5.75 Gallons per Foot 0.16 Sampling Pump Intake Setting 1 180.05 1.02 Gallons in Weit 11.821/S.= (feet below land surface) 30.05 14.75 1.02 Funging Equipment Purge pumpr Baller 0.06 3.00 30.5 14.75 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	Site Location	Aztec, NM				:		·	
Weather With fillers, including Point (MP) Began 1100 Completed 1000 Description of Measuring Point (MP) Top of Casing Image: Completed including Point (MP) Height of MP Above/Below Land Surface MP Elevation 97.16 97.16 Total Sounded Depth of Well Below MP 11.10 Diameter of Casing 2* Galtons Pumped/Bailed Pumped/Bailed 97.75 Wet Water Column in Well 11.10 Prior to Sampling Pumped/Bailed 5.75 Galtons per Foot 0.16 Sampling Pump Intake Setting Image: Completed including information of the Satting Galtons in Well 11.887.53 Image: Completed including information of the Satting Image: Completed including information of the Satting Purging Equipment Purge pump: Bailer Start (VI) Satting including information of the Satting Image: Completed information of the Satting informatinformation of the Satting information of the Satting information	Site/Well No.	MW-3	Replicate No.				- <u>,</u>	·.	
Description of Measuring Point (MP) Top of Casing Height of MP Above/Below Land Surface MP Elevation 97.16 Total Sounded Depth of Well Below MP 27.96" 22.92 Held Depth to Water Below MP 11.10 Diameter of Casing Wet Water Column in Well 11.70 Diameter of Casing Wet Water Column in Well 11.710 Diameter of Casing Gallons per Foot 0.16 Sampling Pump Intake Setting 1987.35 Gallons in Well 1987.35 Gallons for Well 1987.35 Funging Equipment Purge pump/Baller 5.44 Do (mg4.) Do % ORP (mV) Volume (gal.) 18002 13.07 7.32 981 0.876 3.00 30.5 43.9 47.75 18002 12.977 7.28 961 0.828 2.88 27.2 43.5 5.255 1.04 13.05 7.25 985 0.8320 2.47 23.5 5.25 1.04 13.05 7.25 985 0.9320 2.47 23.5 5.25 1.04 13.05 7.25 985 <td>Weather</td> <td>brany, breezer</td> <td></td> <td>1750</td> <td></td> <td></td> <td>g </td> <td>1805</td> <td></td>	Weather	brany, breezer		1750			g 	1805	
Height of MP Above/Below Land Surface MP Elevation 97.16 Total Sounded Depth of Well Below MP 11.10 Water-Level Elevation 86.00 Held Depth to Water Below MP 11.10 Diameter of Casing Gallons Pumped/Balled 2" Wet Water Column in Well 11.70 Pumped/Balled 2" Gallons per Foot 0.16 Sampling Pump Intake Setting (feet below land surface) 9.75 Purging Equipment Purge pump Baller 5.75 9.75 SAMPLING DATAFIELD PARAMETERS Sampling Pump Intake Setting (feet below land surface) 0% ORP (mV) Volume (gal.) 1800 13.07 7.32 131 0.82/6 3.00 30.55 1/3.9 4.75 18002 13.05 7.25 9.81 0.82/8 2.88 27.2 43.5 5.25 1.04 13.05 7.25 9.85 0.93.05 2.47 23.5 5.75 Sampling Equipment Purge Pump/Baller		100	· I	EVACUATION	DATA		•		
Total Sounded Depth of Well Below MP 27.96 22.92 Water-Level Elevation 86.00 Held Depth to Water Below MP 11.10 Diameter of Casing Gallons Pumped/Bailed 2 Wet Water Column in Well 11.70 Prior to Sampling Pumped/Bailed 5.75 Gallons per Foot 0.16 Sampling Pump Intake Setting (feet below land surface) 9 9 9 Purging Equipment Purge pumpr Bailer 0.40 100 (mg/L) D0 % ORP (mV) Volume (gaL) 1800 13.05 7.32 981 0.828 2.72 43.3 5.25 1.04 13.05 7.28 981 0.828 2.88 27.2 43.3 5.25 1.04 13.05 7.25 985 0.930 2.47 23.5 43.2 5.75 Sampling Equipment Purge Pumpr Bailer	Description of	Measuring Point (MP) To	p of Casing			•			· .
Held	Height of MP /	Above/Below Land Surface			MP Elevation				97.16
Held	Total Sounded	Depth of Well Below MP	22.96 22	92	Water-Level Elev	vation		8	16:00
Wet Water Column in Well 11 1/0 Prior to Sampling PumpedBailed 5:75 Gallons per Foot 0.16 Sampling Pump Intake Setting (feet below land surface) 9 Purging Equipment Purge pumpt Bailer 5:64 5:64 0 00 (mg/L) 00 % ORP (mV) Volume (gal) 1800 1307 7:32 981 0.92(3.1) 00 (mg/L) 00 % ORP (mV) Volume (gal) 1802 12.97 7:28 981 0.92(3.2) 2.88 27:2 43.5 5:25 1.04 13.05 7:25 985 0.93:0 2.47 23.5 43.2 6.75 Sampling Equipment Purge PumprBailer	Held	Depth to Water Below M	43.11						
Sampling Pump Intake Setting (feet below land surface) Purging Equipment Purge pump // Bailer SAMPLING DATAFIELD PARAMETERS Time Temperature (°C) pH Conductivity (µS/cm³) TDS (g/L) DO (mg/L) DO % ORP (mV) Volume (gal.)) 1800 1307 7.32 931 (1.8.2/6) 3.00 30.5 93.9 9.75 1802 12.97 7.28 981 0.82/8 2.88 27.2 43.3 5.25 1.04 13.05 7.25 985 (2.830) 2.47 23.5 43.2 6.75 Sampling Equipment Purge Pump/Bailer	Wet	- Water Column in W	ell 11.76				ped/Bailed) 5	.75
Gallons in Well 1987 State (feet below land surface) Purging Equipment Purge pumpt Bailer SAMPLING DATAFIELD PARAMETERS Time Temperature (°C) PH Conductivity (µS/cm³) TDS (g/L) D0 (mg/L) D0 % ORP (mV) Volume (gaL)) 1800 1307 7.32 981 0.82/6 3.00 30.5 93.9 94.75 1800 1307 7.32 981 0.82/6 3.00 30.5 93.9 94.75 1802 12.91 7.28 981 0.82/8 2.88 27.2 43.3 5.25 1.04 13.05 7.25 985 0.82/8 2.47 23.5 43.2 6.75 Sampling Equipment Purge Pump/Bailer Constituents Sampled Container Description Preservative BTEX 3 40mL VOA's HCI Dissolved Mn 16 oz Plastic None Remarks H_2O D MoSHY Claar MO cdar or Shoen observed		Gallons per Fo	oot0.1			•	•	• .	• •
SAMPLING DATAFIELD PARAMETERS Time Temperature (°C) pH Conductivity (µS/cm³) TDS (g/L) DO (mg/L) DO % ORP (mV) Volume (gal.) 1800 1307 7.32 981 0.826 3.00 30.5 439 4.75 1802 12.91 7.28 981 0.828 2.88 27.2 43.5 5.25 1.04 13.05 7.25 985 0.828 2.47 23.5 43.2 5.75 1.04 13.05 7.25 985 0.830 2.47 23.5 43.2 5.75 1.04 13.05 7.25 985 0.830 2.47 23.5 43.2 5.75 1.04 13.05 7.25 985 0.830 2.47 23.5 43.2 5.75 Sampling Equipment Purge Pump/Bailer		Gallons in W	ell1881						·
Time Temperature (°C) pH Conductivity (µS/cm³) TDS (g/L) DO (mg/L) DO % ORP (mV) Volume (gal.) 1800 1307 7.32 931 (1.876 3.00 30.5 939 4.75 1802 12.97 7.28 981 0.828 2.88 27.2 43.5 5.25 1.04 13.05 7.25 985 0.930 2.47 23.5 43.2 6.75 Sampling Equipment Purge Pump/Bailer	Purging Equip	ment Purge pump Ba	ailer 5.	64)		• •		•	
1800 1307 7.32 981 0.826 3.00 30.5 439 4.75 1802 12.97 7.28 981 0.828 2.88 272 43.3 5.25 1.04 13.05 7.25 985 0.930 2.47 23.5 43.2 5.75 Sampling Equipment Purge Pump/Bailer Octotainer Description Preservative BTEX 3 40mL VOA's HCI HCI Dissolved Mn 16 oz Plastic None None			SAMPLING	G DATA/FIELD	PARAMETERS	•	•		
1802 12.91 1.28 981 0.828 2.88 27.2 43.3 5.25 1.04 13.05 7.25 985 0.930 2.47 23.5 43.2 5.75 Sampling Equipment Purge Pump/Bailer) Constituents Sampled Dissolved Mn BTEX 3 40mL VOA's HCI Dissolved Mn 16 oz Plastic None None Remarks H20 D Mostly clear. No cdar or shoen observed.	· · · · · · · · · · · · · · · · · · ·			tivity (µS/cm ³)	TDS (g/L)			ORP (mV)	Volume (gal.)
Image: None Image: None Image: None Image: None		1501			0.8%		30.5	4 <u>2</u> 4 112 2	4.15
Sampling Equipment Purge Pump/Bailer Constituents Sampled Container Description Preservative BTEX 3 40mL VOA's HCl Dissolved Mn 16 oz Plastic None		12.91	716 0		0.000	the second s	012	43.0	675
Constituents SampledContainer DescriptionPreservativeBTEX3 40mL VOA'sHClDissolved Mn16 oz PlasticNoneRemarksH2D & MOSHY CLEAR NO color or Sheen observed.	1.09	10,00	1.25	195	0,030	2.47	25.0	45,0	0, 0
Constituents SampledContainer DescriptionPreservativeBTEX3 40mL VOA'sHClDissolved Mn16 oz PlasticNoneRemarksH2D & MOSHY CLEAR NO color or Sheen observed.	· · · · · · · · · · · · · · · · · · ·								·
Constituents SampledContainer DescriptionPreservativeBTEX3 40mL VOA'sHClDissolved Mn16 oz PlasticNoneRemarksH2D & MOSHY CLEAR NO color or Sheen observed.		<u> </u>		<u> </u>	•	l	LI		· · · ·
BTEX 3 40mL VOA's HCI Dissolved Mn 16 oz Plastic None Remarks H2O B MOSHLY Clear. NO color or sheap observed.	_	· · · ·			· · · · · ·				
Dissolved Mn <u>16 oz Plastic</u> None Remarks <u>H2D & Mostly clear no color or shean observed</u> .		tuents Sampled	•••	er Description	· .		Preser	<u>vative</u>	
Remarks H2OB MOSTLY clear no oder or sheen observed.		· · · · · · · · · · · · · · · · · · ·		•	; ·			· · ·	
	Dissolved Mn	·	16 oz Plastic		······································	None			
	· · · · ·	· · · · · · · · · · · · · · · · · · ·		···· · · · ·					
Sampling Personnel Christine Mathews, Cassie Brown	Remarks	H2O 5 ma	stly clear	NOC	dar or	sheer	ob	Enre	d
	Sampling Pers	onnel Christine Mathew	vs, Cassie Brown					•	· .
Well Casing Volumes				Vell Casing Ve	lumes				
Gal./ft. $1\frac{1}{4}$ = 0.077 2" = 0.16 3" = 0.37 4" = 0.65	I	GaL/ff. 1½" ≓ ∩∩		_		0.37	4" = 0.65		
$1 \frac{1}{2} = 0.10 \qquad 2 \frac{1}{2} = 0.24 \qquad 3^{"} \frac{1}{2} = 0.50 \qquad 6^{"} = 1.46$									
	1	L	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				

Project Name	Faye Burdette No. 1			• •	Pao	ə4	of	4
ject No.		······		······································	1.49.		-	
Site Location	Aztec. NM	• • •						
Site/Well No.	· · ·	Coded/ Replicate N	0.		Date	3-16-1	![
Weather	Juny breezy	Time Sampl Began	^{ling} 1805		Time Samplir Completed	¹⁹ <i>18</i>	20	
	100 0		EVACUATI	ON DATA	۰.	•		
Description of i	Measuring Point (MP) To	op of Casing	· ·.					· · ·
Height of MP A	bove/Below Land Surface	· · ·		MP Elevation				97.06
Total Sounded	Depth of Well Below MP	<u></u>	21.85	Water-Level El	evation	, .	{	16.22
-leld	Depth to Water Below I	MP 10.8	4	Diameter of Ca				
Wet	Water Column in W		[Gallons Pumpe Prior to Sampli		nped/Bailed	3 2	5.5
	- Gallons per F	·····	0.16					
	Gallons in W	· · · · · · · · · · · · · · · · · · ·		Sampling Pum (feet below lan	p Intake Setting d surface)	/	 , .	. ·
Purging Equipr	. /	- 1- 7	5.28)				· · ·	
		SAM	IPLING DATA/FI	ELD PARAMETER		•		
Time	Temperature (°C)	pH C	onductivity (µS/ci		DO (mg/L)	DO %		Volume (gal.)
1814	$\frac{12.10}{12.10}$	$\frac{1.21}{17.27}$	1015	0.863	7.63	1212	<u>57.8</u> 57.9	5.0
1816	17.39	7.27	1/21	0.893	3.40	31.7	59.7	5.5
•								
Sampling Equi	pment P	irge Punip/Baile	ar)			• -	• • • •	· · ·
Constil	uents Sampled	$\overline{}$	Container Descrip	tion	· · ·	Prese	rvative	
BTEX		3 40mL VO/		· . ·	HCI	•••		
Dissolved Mn		16 oz Plasti		<u></u>	None			
			,					
Remarks	HO is lie	that lorg	an; Nr	, agon or	- Shen ,	lok to	2	
Sampling Pers	onnel <u>Christine Mathe</u>	() ws, Cassie Brov		·		•	•	• .
			Well Casin	g Volumes	·	.		ł
				-			_	1
	Gal./ft. 1 ¼* = 0.0	77 2"	= 0.16	3" =	0.37	4" = 0.6	5.	

APPENDIX B



Conoco Phillips

Certificate of An <u>1103</u>	-	
Report To:	Project Name:	COP Faye Burdette No. 1
Tetra Tech, Inc.	<u>Site:</u>	Aztec, NM
Kelly Blanchard	Site Address:	
6121 Indian School Road, N.E.	•	
Suite 200 Albuquerque	PO Number:	4510713617
NM	State:	New Mexico
87110-	State Cert. No .:	
ph (505) 237-8440 fax: (505) 881-3283	Date Reported:	3/28/2011

This Report Contains A Total Of 15 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

3/28/2011

Date

Test results meet all requirements of NELAC, unless specified in the narrative.
 Version 2.1 - Modified February 11, 2011



Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

<u>11030463</u>

Report To:	Project Name:	COP Faye Burdette No. 1
Tetra Tech, Inc.	<u>Site:</u>	Aztec, NM
Kelly Blanchard	Site Address:	
6121 Indian School Road, N.E.		
Suite 200 Albuquerque	<u>PO Number:</u>	4510713617
NM	State:	New Mexico
87110-	State Cert. No.:	· .
ph (505) 237-8440 fax: (505) 881-3283	Date Reported:	3/28/2011

.I. SAMPLE RECEIPT:

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

II: ANALYSES AND EXCEPTIONS:

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time

III. GENERAL REPORTING COMMENTS:

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

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

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

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

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

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by

adenas

11030463 Page 1

3/28/2011

Date

Erica Cardenas Project Manager

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



Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

<u>11030463</u>

his designee, as verified by the following signature.

E-a Cardinas

11030463 Page 2

3/28/2011

Date

Erica Cardenas Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative. Version 2.1 - Modified February 11, 2011



Conoco Phillips

Certificate of Analysis Number: 11030463 **COP Faye Burdette No. 1** Tetra Tech, Inc. Project Name: Report To: Kelly Blanchard Aztec, NM Site: 6121 Indian School Road, N.E. Site Address: Suite 200 Albuquerque 4510713617 PO Number: NM 87110-State: **New Mexico** ph (505) 237-8440 fax: (505) 881-3283 State Cert. No.: Fax To: Date Reported: 3/28/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	11030463-01	Water	03/16/2011 17:45	3/18/2011 9:06:00 AM	302866	
MW-2	11030463-02	Water	03/16/2011 17:55	3/18/2011 9:06:00 AM	302866	
MW-3	11030463-03	Water	03/16/2011 18:05	3/18/2011 9:06:00 AM	302866	
MW-4 -	11030463-04	Water	03/16/2011 18:20	3/18/2011 9:06:00 AM	302866	· []
Duplicate	11030463-05	Water	03/16/2011 17:50	3/18/2011 9:06:00 AM	302866	· 🗌
Trip Blank	11030463-06	Water	03/16/2011 21:30	3/18/2011 9:06:00 AM	302866	

In Cardenas

Erica Cardenas Project Manager

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

> > Ted Yen Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

3/28/2011

Date

11030463 Page 3 3/28/2011 3:49:29 PM



8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID MW	-1	•	Collect	ted: 03/1	6/2011 17	:45	SPL Samp	le ID: 1103	0463-01
· · · · ·		· .	Site:	Aztec,	NM				
Analyses/Method	Resu	lt QUAL	Rep.L	imit	Dil. Fa	ictor	Date Analyz	ed Analyst	Seq. #
METALS BY METHOD	6010B, DISSOLVE	D .	· ·	•	MCL	SW	6010B	Units: mg/L	
Manganese	2.23	3	0	.005	1	l	03/25/11 18	:57 EG	5752216
Prep Method	Prep Date	Prep Initia		<u>ctor</u>			•	•	
SW3005A	03/18/2011 10:15	M_W	1.00			<u> </u>	· · ·		
VOLATILE ORGANICS	S BY METHOD 8260	B	· .		MCL	· SW8	3260B	Units: ug/L	
Benzene	· NE) .		1 ·	. • • • •		03/21/11 20	:32 JC	5748376
Ethylbenzene	NE)		1	· 1	Ι.	03/21/11 20	:32 JC	5748376
Toluene	· NC).	•	· 1	· · 1	· ·	03/21/11 20	:32 JC	5748376
m,p-Xylene	NC)		2	. 1		03/21/11 20	:32 JC	. 5748376
o-Xylene	NE)	·. ·	1	. 1	ŀ	03/21/11 20	:32 JC	5748376
Xylenes, Total	NC)	•	1	. 1		03/21/11 20	:32 JC	5748376
Surr: 1,2-Dichloroethar	ne-d4 78.4	ļ	.% 70	-130			03/21/11 20	:32 JC	5748376
Surr: 4-Bromofluorobe	nzene 93.2	2	% 74	-125	·. ·1	l	03/21/11 20	:32 JC	5748376
Surr: Toluene-d8	. 97.4	L	°% 82	-118	· •	. '	03/21/11 20	:32 JC	5748376

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte Detected In The Associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

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

> 11030463 Page 4 3/28/2011 3:49:36 PM

t



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID M	IW-2		Co	Collected: 03/16/2011 17:55			SPL Sa	mple	D: 1103	0463-02
·			Si	te: Azte	c, NM					
Analyses/Method	Re	sult QUAL	R	ep.Limit	Di	I. Factor	Date An	alyzed	Analyst	Seq.#
METALS BY METH	OD 6010B, DISSOLV	/ED			MCL	SV	V6010B	Ur	nits: mg/L	
Manganese	0.02	265		0.005		1	03/25/11	19:03	EG	5752217
Prep Method	Prep Date	Prep Initials	Pre	<u> Factor</u>						
SW3005A	03/18/2011 10:15	M_W	1.00)	•					
VOLATILE ORGAN	ICS BY METHOD 82	60B			MCL	SV	V8260B	Ur	nits: ug/L	
Benzene		ND		· 1		1	03/21/11		JC	5748377
Ethylbenzene		ND		1		1	03/21/11	21:01	JC	5748377
Toluene		ND		1		1	03/21/11	21:01	JC	5748377
m,p-Xylene		ND		2		1	03/21/11	1 21:01	JC	5748377
o-Xylene	.1	ND		1		1	03/21/11	21:01	JC	5748377
Xylenes, Total		ND		1		1	03/21/11	21:01	JC	5748377
Surr: 1,2-Dichloroet	thane-d4 8	8.7	%	70-130		1	03/21/11	21:01	JC	5748377
Surr: 4-Bromofluoro	benzene 94	4.6	%	74-125		1	03/21/11	21:01	JC	5748377
Surr: Toluene-d8	. 1	101	%	82-118		1	03/21/11	1 21:01	JC	5748377

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte Detected In The Associated Method Blank * - Surrogate Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL

- Estimated value between MDL and FQ

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

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

> 11030463 Page 5 3/28/2011 3:49:36 PM

LABO . • 8

SPL ENVIRONMENTAL

8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

·. ·	·· .	LABU	n A I U	RIEO		· · ·	·•					
Clie	nt Sample ID MW	-3			Colle	cted: 0	3/16/2011 ⁻	18:05	SPL Sar	nple I	D: 1103	0463-03
			•	•	Site:	Azte	ec, NM		÷		•	· · ·
Anal	yses/Method		Result	QUAL	Rep.	Limit	Dil.	Factor	Date Ana	lyzed	Analyst	Seq. #
MET	ALS BY METHO	D 6010B, DIS	SOLVED) .	·		MCL	SI	W6010B	Un	its: mg/L	
Ma	inganese		0.0424	·	1	0.005		1	03/25/11	19:09	EG	5752218
•	Prep Method	Prep Date	•	Prep Initials	Prep Fa	actor				•		
•	SW3005A	03/18/2011 1	0:15	M_W	1.00	Ì [,]		•			•••	
VOL	ATILE ORGANIC	S BY METHO	DD 8260E	3			MCL	SI	N8260B	Un	its: ug/L	
Be	nzene	•	ND	·. · · · ·		1.		1	03/21/11	21:30	JC .	5748378
Eth	ylbenzene		· ND			1	•	1	03/21/11	21:30	JC	5748378
To	luene		. ND	·	-	1		1	03/21/11	21:30	JC	5748378
,	p-Xylene		ND			· 2		1	03/21/11	21:30	JC .	5748378
o-X	(ylene		. ND		•	1	· ·	1.	. 03/21/11	21:30	JC.	5748378
Xyl	enes,Total	-	ND			1		1	03/21/11	21:30	JC	5748378
	Surr: 1,2-Dichloroetha	ne-d4	83.3		% 7	0-130	•	1	03/21/11	21:30	JC .	5748378
	Surr: 4-Bromofluorobe	nzene	94.6		% 74	4-125.	••	1	03/21/11	21:30	JC.	5748378
5	Surr: Toluene-d8		99.6	•	% 8	2-118	• • •	1	03/21/11	21:30	JC	5748378

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte Detected In The Associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

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

> 11030463 Page 6 3/28/2011 3:49:37 PM



8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

11030463-04 **Client Sample ID MW-4** Collected: 03/16/2011 18:20 SPL Sample ID: Site: Aztec, NM QUAL Analyses/Method Result **Rep.Limit** Dil. Factor Date Analyzed Analyst Seq. # SW6010B METALS BY METHOD 6010B, DISSOLVED MCL Units: mg/L 0.005 1 03/25/11 19:15 EG 5752219 Manganese ND Prep Date Prep Initials Prep Factor Prep Method SW3005A 03/18/2011 10:15 1.00 |M W MCL SW8260B **VOLATILE ORGANICS BY METHOD 8260B** Units: ug/L 5748379 Benzene ND 1 1 03/21/11 21:59 JC ND 03/21/11 21:59 JC 5748379 Ethylbenzene 1 1 Toluene ND 1 1 03/21/11 21:59 JC 5748379 m,p-Xylene ND 2 1 03/21/11 21:59 JC 5748379 1 03/21/11 21:59 JC 5748379 o-Xylene ND 1 Xylenes, Total ND JC 5748379 1 1 03/21/11 21:59 Surr: 1,2-Dichloroethane-d4 81.6 % 70-130 1 03/21/11 21:59 JC 5748379 Surr: 4-Bromofluorobenzene 93.1 % 74-125 1 03/21/11 21:59 JC 5748379 82-118 JC 5748379 Surr: Toluene-d8 97.5 03/21/11 21:59 % 1

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte Detected In The Associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

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

> 11030463 Page 7 3/28/2011 3:49:37 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Collected: 03/16/2011 17:50 SPL Sample ID: 11030463-05 Client Sample ID Duplicate Site: Aztec, NM QUAL Dil. Factor Analyses/Method Result Rep.Limit Date Analyzed Analyst Seq. # **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/L 1 03/21/11 22:28 JC 5748380 Benzene ND 1 5748380 Ethylbenzene ND 1 1 03/21/11 22:28 JC ND JC 5748380 Toluene 1 1 03/21/11 22:28 2 JC 5748380 m,p-Xylene ND 1 03/21/11 22:28 1 03/21/11 22:28 JC 5748380 o-Xylene ND 1 5748380 ND 03/21/11 22:28 JC Xylenes,Total 1 1 Surr: 1,2-Dichloroethane-d4 84.4 % 70-130 1 03/21/11 22:28 JC 5748380 74-125 1 03/21/11 22:28 JC 5748380 Surr: 4-Bromofluorobenzene 95.3 % Surr: Toluene-d8 96.9 % 82-118 1 03/21/11 22:28 JC 5748380

Qualifiers:

ND/U - Not Detected at the Reporting Limit

- B Analyte Detected In The Associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

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

11030463 Page 8 3/28/2011 3:49:37 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID Trip Blank			Col	lected: 03	3/16/2011 21:30	SPL Sample	eID: 1103	0463-06
			Sit	e: Azte	c, NM			
Analyses/Method	Result	QUAL	R	ep.Limit	Dil. Factor	Date Analyze	d Analyst	Seq. #
VOLATILE ORGANICS BY METH	10D 8260B	•			MCL SV	V8260B l	Jnits: ug/L	
Benzene	ND			1	1	03/21/11 22:5	7 JC	574838
Ethylbenzene	ND			1	. 1	03/21/11 22:5	7 JC ·	574838
Toluene	ND			1	· 1	03/21/11 22:5	7 JC	574838 ²
m,p-Xylene	ND			2	1	03/21/11 22:5	7 JC .	574838
o-Xylene	ND			1	1	03/21/11 22:5	7 JC	574838
Xylenes,Total	· ND		• •	1	1	03/21/11 22:5	7 JC	574838
Surr: 1,2-Dichloroethane-d4	82.3		%	70-130	1	03/21/11 22:5	7 JC	574838 ⁻
Surr: 4-Bromofluorobenzene	96.4		%	74-125	1	03/21/11 22:5	7 JC .	574838
Surr: Toluene-d8	99.2		%	82-118	1	03/21/11 22:5	7 JC	574838

Qualifiers:

ND/U - Not Detected at the Reporting Limit

- B Analyte Detected In The Associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- ${\bf J}$ Estimated value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

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

11030463 Page 9 3/28/2011 3:49:38 PM

Quality Control Documentation

Version 2.1 - Modified February 11, 2011

11030463 Page 10 3/28/2011 3:49:38 PM

ACCUTEST		
LABORATORIES	•.	

SPL ENVIRONMENTAL 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

Quality Control Report

Conoco Phillips

COP Faye Burdette No. 1

•					COP Fa	ye Burdett	e No. 1							
Analysis: Method:	Metals by I SW6010B	Method 6	010B, Dissol	ved	· ·	· · ·	•.•			kOrder: Batch ID	•)30463 5539		•
		Met	hod Blank			• .	Sampl	es in Analy	tical Batci	h:				
RunID: ICP2_1103	325A-5752201		Units:	mg/L	. •		Lah Si	ample ID		Client	Sample I	י	••••	
Analysis Date:	03/25/2011		Analyst:	EG		. •	• .	463-01A		MW-1		2		•
Preparation Date:	03/18/2011		Prep By:		Method SV	V3005A		463-02A		MW-2		. •	· · .	•
• •		•		. •	•	•	11030	463-03A		MW-3	•.	••••		
· · · ·	Α	nalyte		Result	Rep Limit	1	11030	463-04A		MW-4	•			
Manga				NE					۰.		•••			
•			• • • •											
·											•. •			
				Li	aboratory (Control Sa	mple (LC	<u>.5)</u>			· · .		۰ _. .	
		RunID			0325A-57522	-		g/L		. ,		· ·		
		•••	is Date:		011 17:31					• •	•			·
		Prepar	ation Date:	03/18/20	011 10:15	Prep	By: M	_ Method	SW 3005A					·
					·						-			
• •			Analy	e		Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit				
		Mangane	se			0.1000	0.1050	105.0	80		0			
										· · ·	-			
			Matrix	Spike (I	MS) / Matri	<u>x Spike Du</u>	plicate (MSD)						
		Sam	ple Spiked:	11030	446-02									
		Runi			10325A-575	2204 Un	its: I	ng/L			•			
			ysis Date:	03/25/	2011 17:43			ĒĞ						
		Prep	aration Date:	03/18/	2011 10:15	Pre	ep By: I	M Metho	1 SW3005	5A				
•														
Ana	alyte		Sample	MS	MS	MS %	MSE			D %	RPD -	000	Low	High
			Result	Spike Added	Result	Recove	ry Spik Adde		t Rec	overy		RPD Limit	Limit	Limi
Nanganese			1.211	0.1	1.35	54			308	N/C	N/C		75	12
viai iudi iese			1.211	0.1					000		14/0	20		12.

Qualifiers: ND/U - Not Detected at the Reporting Limit

- B Analyte Detected In The Associated Method Blank
- J Estimated Value Between MDL And PQL
- E Estimated Value exceeds calibration curve

- MI Matrix Interference
- D Recovery Unreportable due to Dilution
- * Recovery Outside Advisable QC Limits

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

TNTC - Too numerous to count

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

11030463 Page 11 3/28/2011 3:49:39 PM

Quality Control Report

Conoco Phillips

COP Faye Burdette No. 1

Volatile Organics by SW8260B	Method 826	60B	· .•			11030463 R317340	· .	
Meth	nod Blank			Samples in Analytical	al Batch:			
110321A-5748366	Units:	ug/L	• <u>·</u>	Lab Sample ID	Client Sar	nple ID	•	
: 03/21/2011 16:12	Analyst:	JC		11030463-01B	MW-1			
				11030463-02B	MW-2			
* .	· .	•		11030463-03B	MW-3			
		· · ·		11030463-04B	MW-4			
			4 <u> </u>	11030463-05B	Duplicate			
				11030463-06B	Trip Blank			
Toluene					. •	• •		
m,p-Xylene		ND	2.0					
o-Xylene		ND	1.0					
Xylenes,Total		ND	1.0		• • •	•		
Surr: 1,2-Dichloroethane-d4		103.3	70-130		· .			
	SW8260B <u>Mett</u> 110321A-5748366 : 03/21/2011 16:12 <u>Analyte</u> <u>Benzene</u> <u>Ethylbenzene</u> <u>Toluene</u> <u>m.p-Xylene</u> <u>o-Xylene</u> Xylenes,Total	SW8260B Method Blank 110321A-5748366 Units: : 03/21/2011 16:12 Analyst: Analyte Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total	SW8260B Method Blank I10321A-5748366 Units: ug/L : 03/21/2011 16:12 Analyst: JC : 03/21/2011 16:12 Analyst: JC Analyte Result Benzene ND Ethylbenzene ND Toluene ND m.p-Xylene ND o-Xylene ND Xylenes,Total ND	SW8260B Method Blank 110321A-5748366 Units: ug/L : 03/21/2011 16:12 Analyst: JC Analyte Result Rep Limit Benzene ND 1.0 Ethylbenzene ND 1.0 Toluene ND 1.0 m.p-Xylene ND 1.0 Xylenes,Total ND 1.0	SW8260B Method Blank Samples in Analytical 110321A-5748366 Units: ug/L Lab Sample ID : 03/21/2011 16:12 Analyst: JC 11030463-01B : 03/21/2011 16:12 Analyst: JC 11030463-02B : 11030463-03B 11030463-03B 11030463-03B : 11030463-04B 11030463-04B 11030463-05B : ND 1.0 11030463-06B : ND 1.0 11030463-06B	Method Blank Samples in Analytical Batch: 110321A-5748366 Units: ug/L Lab Sample ID Client Sample ID : 03/21/2011 16:12 Analyst: JC 11030463-01B MW-1 : 03/21/2011 16:12 Analyst: JC 11030463-02B MW-2 : 11030463-03B MW-3 11030463-03B MW-3 : Analyte Result Rep Limit 11030463-04B MW-4 : 10030463-05B Duplicate 11030463-05B Duplicate : ND 1.0 11030463-06B Trip Blank : ND 1.0 11030463-06B Trip Blank	SW8260B Lab Batch ID: R317340 Method Blank Samples in Analytical Batch: 103/21/2011 Batch: Lab Sample ID Client Sample ID 110321A-5748366 Units: ug/L Lab Sample ID Client Sample ID 03/21/2011 16:12 Analyst: JC 11030463-01B MW-1 11030463-02B MW-2 11030463-03B MW-3 11030463-03B MW-3 11030463-03B MW-4 Analyte Result Rep Limit 11030463-03B Duplicate Ethylbenzene ND 1.0 11030463-06B Trip Blank Toluene ND 1.0 11030463-06B Trip Blank xylenes,Total ND 1.0 11030463-06B Trip Blank	

Laborator	Control	Sample	(LCS)

RunID: Analysis Date:

Surr: 4-Bromofluorobenzene

Surr: Toluene-d8

LA

ORIES

Q_110321A-5748365 03/21/2011 15:43

91.3

99.8

74-125

82-118

Units: ug/L Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	17.2	86.1	74	123
Ethylbenzene	20.0	20.9	105	72	127
Toluene	20.0	21.2	106	74	126
m,p-Xylene	40.0	42.2	105	71	129
o-Xylene	20.0	20.7	· 103	- 74	130
Xylenes,Total	60.0	62.9	105	71	130
Surr: 1,2-Dichloroethane-d4	50.0	38.6	. 77.2	70	130
Surr: 4-Bromofluorobenzene	50.0	• 47	94.1	74	125
Surr: Toluene-d8	50.0	48	96.1	82	. 118

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

Qualifiers:

- ND/U Not Detected at the Reporting Limit B - Analyte Detected In The Associated Method Blank
- J Estimated Value Between MDL And PQL
- E Estimated Value exceeds calibration curve

- D Recovery Unreportable due to Dilution

MI - Matrix Interference

- * Recovery Outside Advisable QC Limits
- N/C Not Calculated Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply. TNTC - Too numerous to count

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

11030463 Page 12 3/28/2011 3:49:39 PM



SPL ENVIRONMENTAL 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Quality Control Report

Conoco Phillips

COP Faye Burdette No. 1

Analysis:	Volatile Orga	nics by Method 820	50B	•		•	WorkOrder:	11030463	
Method:	SW8260B		· · · ·	1. A			Lab Batch ID:	R317340	
·		Sample Spiked:	11030462-01	·······					
	· · · ·	RunID:	Q_110321A-5748369	Units:	ug/L	•			•
		Analysis Date:	03/21/2011 17:10	Analyst:	JC	• • • •			•
					· ·	· · · ·	•		

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD. Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	19.4	97.0	20	. 18.7	93.4	3.77	. 22	· 70	· 124
Ethylbenzene	ND	· 20	21.4	107	20	21.6	108	0.795	· 20	76	122
Toluene	• ND	. 20	21.8	109	20	21.0	105	3.57	24	80	117
m,p-Xylene	ND	40	43.4	108	40	43.9	110	1.13	20	69	127
o-Xylene	ND	20	21.1	105	20	21.0	. 105	0.247	20	84	114
Xylenes,Total	ND	60	. 64.5	·· 107	60	64.9	· 108	0.682	·20	69	127
Surr: 1,2-Dichloroethane-d4	ND	50	43	86.0	50	36.7	73.5	15.7	30	70	130
Surr: 4-Bromofluorobenzene	ND	. 50	46.4	92.8	50	47.6	95.2	. 2.57	30	• 74	125
Surr: Toluene-d8	ND	50	48.5	96.9	50	49.3	98.5	1.64	30	82	118

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte Detected In The Associated Method Blank

J - Estimated Value Between MDL And PQL

E - Estimated Value exceeds calibration curve

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

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

TNTC - Too numerous to count

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

Version 2.1 - Modified February 11, 2011

11030463 Page 13 3/28/2011 3:49:39 PM

Sample Receipt Checklist And Chain of Custody

Version 2.1 - Modified February 11, 2011

11030463 Page 14 3/28/2011 3:49:40 PM CCUTEST

LABORATORIES

SPL ENVIRONMENTAL 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Sample Receipt Checklist

· · · · · · · · · · · · · · · · · · ·					
Workorder: 11030463	·		Received By:	NB	
Date and Time Received: 3/18/2011 9:06:00	AM		Carrier name:	Fedex-Standard Overnight	
Temperature: 2.0/2.0°C	•	• •	Chilled by:	Water Ice	
1. Shipping container/cooler in good condit	ion? Ye	es 🗹	No	Not Present	
2. Custody seals intact on shippping contai	ner/cooler? Ye	es 🗹	No	Not Present	
3. Custody seals intact on sample bottles?	Y	es 🖸	No 🗌 .	Not Present	
4. Chain of custody present?	Y	es 🗹	No	• • • .	
5. Chain of custody signed when relinquish	ed and received? Ye	es 🗹	Νο		
6. Chain of custody agrees with sample lab	els? Ye	es 🗹	No 🗌		
7. Samples in proper container/bottle?	Y	es 🗹	Νο		
8. Sample containers intact?	Y	es 🔽	No		•
9. Sufficient sample volume for indicated te	st? Y	es 🗹	No	• •	
10. All samples received within holding time?	Y Y	es 🗹	No 🔲		
11. Container/Temp Blank temperature in co	npliance? Y	es 🗹	No 🗌 .		
12. Water - VOA vials have zero headspace?	Y	es 🗹	No 🗌 VOA Via	als Not Present	•
13. Water - Preservation checked upon recei	ot (except VOA*)? Y	es 🗌	No	Not Applicable	
*VOA Preservation Checked After Sample	Analysis		,		
SPL Representative:	Co	ontact Date & Ti	me:		
Client Name Contacted:				·	
Non Conformance Issues:			· · · · ·	· · · · · · · · · · · · · · · · · ·	
Client Instructions:				· · · · · · · · · · · · · · · · · · ·	-
					_

Analysis Request & Chain of Custody Record	eha la	ouest & Chain of Custody Reco	•											
Note: Control (1/2) India (1/2) <thindia (1="" 2)<="" th=""> India (1/2) <thindia (1="" 2<="" th=""><th>Tehaler</th><th></th><th>þ</th><th>· · · · ·</th><th>• • . • /</th><th></th><th></th><th></th><th></th><th>on no</th><th></th><th>e</th><th>of</th><th></th></thindia></thindia>	Tehaler		þ	· · · · ·	• • . • /					on no		e	of	
Best All of the first fi					matrix	hottle		cs.		Re	aueste	1	lvsis	
If the Apple of the Constant of the Apple of the Appl	[0/21 Indian	WAY KA NE	4 120	and succession of	ther =air									
area of the product of	Mousine	State NM	Zip Salu	STRUE .	0=X ∀ I	iəui	er er			l				
and Control Henrical Ending Ending <thending< th=""> Ending En</thending<>	of ax: ULD 23.7.5	440			(10=) (10=)	0=X				W				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Yolly BK	11 . Emáil: Lélle	blancharde	phe la	1000 1000 1000 1000	' IB		Iəttə		1				<u>.</u>
Image: Contract of the state of th	I tay	Welek No. 7 J			\$=] 105=	ι <u>λ</u> =Λ		<u>0=X</u>		V				
n. Part Pris P	Name:				36 - 2	1		ţ	X	10				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					Spn 1916	ssi Sits		705	ĬŢ.	Ģ				
SAMPLE ID DATE TMB comp gen gen <t< td=""><td></td><td></td><td>Ph:</td><td></td><td>[S=' ?M= </td><td>elg: slg:</td><td></td><td>57H</td><td>ТĘ</td><td>T.J.</td><td></td><td></td><td></td><td></td></t<>			Ph:		[S=' ?M= 	elg: slg:		57H	ТĘ	T.J.				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		DATE	TIME	·	M ·	-9 =d		=£:	E	7				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	MW-1	3.16.1/	1745		$\frac{1}{2}$	A	N OI	<u>م</u>		X				
1 3:16:11 1765 1	Nu)-1	3.10.11	1745		3		8	5	\succ					
$ \frac{2}{3} = \frac{3 \cdot [b \cdot l + 1 \cdot 1 \cdot 6}{3 \cdot [b - l + 1 \cdot 6 \cdot 6} + b \cdot b + b + b + b + b + b + b + b + b + $	Nur.7	11.91.2	1755		(n)	A	16 1	 		X				
S 3:16:11 BS X W P W H K <thk< <="" td=""><td>N.n. J</td><td>1-</td><td>1-15</td><td>Ϋ́</td><td></td><td></td><td>40 1</td><td>8</td><td>\succ</td><td></td><td></td><td></td><td></td><td></td></thk<>	N.n. J	1-	1-15	Ϋ́			40 1	8	\succ					
3 16 1 826 X W A 3 K	MII Z	1-	222		20	A	+	1		<u> </u>				
-4 3/b 1/l 1/2/c 1/l 1		2.11.11	625	< >	()]			4	$\left \right\rangle$					
1 3/16/11 10/20 1 10/20 10	7 2	01011	101%	< <u>></u>	3 1	۰D	22	<u>}</u>	<u> </u>	X				
$\frac{1}{12} = \frac{3 \cdot 10 \cdot 1}{3 \cdot 10} \frac{1760}{1160} + \frac{10 \cdot 1}{40} \frac{10 \cdot 1}{20} + \frac{10 \cdot 1}{40} \frac{10 \cdot 1}{20} + \frac{10 \cdot 1}{20} +$			1212	\mathbb{V}				3	$\mathbf{\times}$					<u>.</u>
I/Carley S / 10 / 1 / 213 N / 10 N	MUC4	01010		\uparrow		×	24	_	~ } - }	ALL				25
bdm 3:10:11 2133 X V 40 X X V 40 X V <td>andrate</td> <td>1.01.5</td> <td></td> <td></td> <td>3</td> <td>></td> <td>9</td> <td>_</td> <td>X</td> <td></td> <td>- 10</td> <td></td> <td></td> <td></td>	andrate	1.01.5			3	>	9	_	X		- 10			
Interction Remarks: Laboratory remar	447 blant	316.11	2130	X	<u>}</u>	7	40		X					IJ
Instruction Special Reporting Requirements Results: Fax Email PDF Special Detection Limits (specify): Standard Contract Standard Contract I.evel 3 QC Level 4 QC TX TRRP LA RECAP Standard Contract Standard C Level 4 QC TX TRRP LA RECAP Ime Standard C I.evel 3 QC Level 4 QC TX TRRP LA RECAP Ime Standard C I.evel 3 QC Level 4 QC TX TRRP LA RECAP Ime Standard I. Relinquished by SatMiler: date Ime A. Received by: A. Received by: Standard S. Relinquished by: A. Received by: A. Received by: A. Received by: Frequires prior notice S. Relinquished by: A. Received by: A. Received by:	nt/Consultant Remarks: USLH / HUB PCBIR Mede	lse lab	Laborato			•		• •				itact? e? emp:		
ss Day Contract Standard & Level 3 QC Level 4 QC TX TRRP LARECAP LAREC		pecial Reporting Requiremen				Z Spec	ial Dete	tion Li	nits (spe	cify):			l review	(initia
as Days Ir Standard 1. Relinquished by San let: as Days I Standard 3. Relinquished by: Fequires prior notice 2. Relinquished by: Trequires prior notice	Contract	X	, T		ARECAP		•							
3. Relinquished by: 5. Relinquished by: requires prior notice	Standard	. Relinghistical by Sangler:	X	<u>ड</u> र)	11/1	time	N N	2. R(ceived 1	y:				
5. Relinquished by: requires prior notice	3 Business Days	. Relinquished by:		dat	te	time		4. R	ceived I	ıy:				
	T requires prior notice	. Relinquished by:		う 留 で	te 8	<u>, ti</u>	901	e. K		ANNI'	Ň	1		