		SIT	E INFORMATI	ON	
		Report	Type: Closure	Report	2RP-490
General Site In	formation:				
Site:		Ruthie Fee #	1		
Company:		COG Operati			
	ship and Range		10 - T22S - R27E		
Lease Number		30-015-33403			
County:		Eddy County			
GPS:			32.40284° N		104.18361° W
Surface Owner		Private			
Mineral Owner	·				et, travel south on S. Canal St
Directions:		for 1.0 miles, to location on righ		e, travel 2.2 miles, cross o	cattle guard and 0.1 mile to
Release Data: Date Released:		11/22/2010			
Type Release:		Oil		•	
Source of Conta			nk battery fence		
Fluid Released:		17 bbls			
Fluids Recovere		15 bbls		A PARTY OF THE PARTY OF SECTION AND THE PARTY OF	
Official Commi	unication:				
Name:	Pat Ellis			lke Tavarez	
Company:	COG Operating, L	LC		Tetra Tech	
Address:	550 W. Texas Ave	. Ste. 1300		1910 N. Big Sprii	ng ,
P.O. Box					
City:	Midland Texas, 79	701		Midland, Texas	
Phone number:	(432) 686-3023			432-682-4559	
Fax:	(432) 684-7137				
Email:	pellis@conchores	ources com		ike.tavarez@tet	tratech com

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	20
50-99 ft	10	
>100 ft.	0	
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score	\$455 \$354201£0.56	RECEIVED
Ac	cceptable(Soil(RRAL(mg/kg)	JUL 0 8 2011

Acceptable(Soil(RRAL (mg/kg)/*** Total BTEX

50

Benzene

10

TPH

100

NMOCD ARTESIA



June 20, 2011

Mr. Mike Bratcher **Environmental Engineer Specialist** Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, New Mexico 88210

Remedial Activities and Closure Request for the COG Operating Re: LLC., Ruthie Fee #1 Tank Battery, Unit M, Section 10, Township 22 South, Range 27 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Ruthie Fee #1 Tank Battery, Unit M, Section 10, Township 22 South, Range 27 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.40284°, W 104.18361°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on November 22, 2010, and released approximately seventeen (17) barrels of oil due to a cow entering the tank battery fence and partially opening the circulating discharge valve. Fifteen (15) barrels of standing fluids were recovered from the spill area. The spill initiated from the valve and impacted an area approximately 2' x 30' inside the facility firewall. The initial C-141 form is enclosed in Appendix A.

Groundwater

According to the New Mexico Office of the State Engineer water report, a water well was located in Section 10 with a recorded depth to groundwater of 40' below surface. Wells within the adjacent Sections recorded depths to groundwater ranging from 18' to 70' below surface. The water report data is shown in Appendix B.



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 100 mg/kg.

Soil Assessment and Analytical Results

On December 27, 2010, Tetra Tech personnel inspected and sampled the spill area. Based on the area, one (1) auger hole (AH-1) was installed using a stainless steel hand auger to assess the impacted soils. All samples were analyzed for TPH analysis by EPA method 8015 modified and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The auger hole location is shown on Figure 3.

Referring to Table 1, the sample from 0-1' exceeded the RRAL for TPH and the deeper sample at 1.0'-1.5' was below the RRAL. Chlorides showed concentrations of <200 mg/kg at 0-1.0' and 223 mg/kg at 1.0-1.5' below surface.

Remedial Work and Closure Request

On March 24, 2011, Tetra Tech personnel supervised the excavation of the site. The remediation was performed as stated in the approved work plan. The excavation measured approximately 3' X 30', with a depth of 1.0' to 1.5' below surface. Less than 10 yards³ of soil were removed and transported to CRI Inc. for proper disposal. The excavation depths are highlighted in Table 1.

During the initial sampling of the spill, no BTEX analysis was performed on the spill. Once the spill area was excavated, a confirmation sample (CS-1) was collected at 1-1.5' below surface. Referring to Table 1,



the BTEX analysis was below the RRAL. The excavation was backfilled with clean material. A copy of the C-141 (Final) is included in Appendix C.

Based on the remedial activities performed at this site, COG request closure of this site. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,

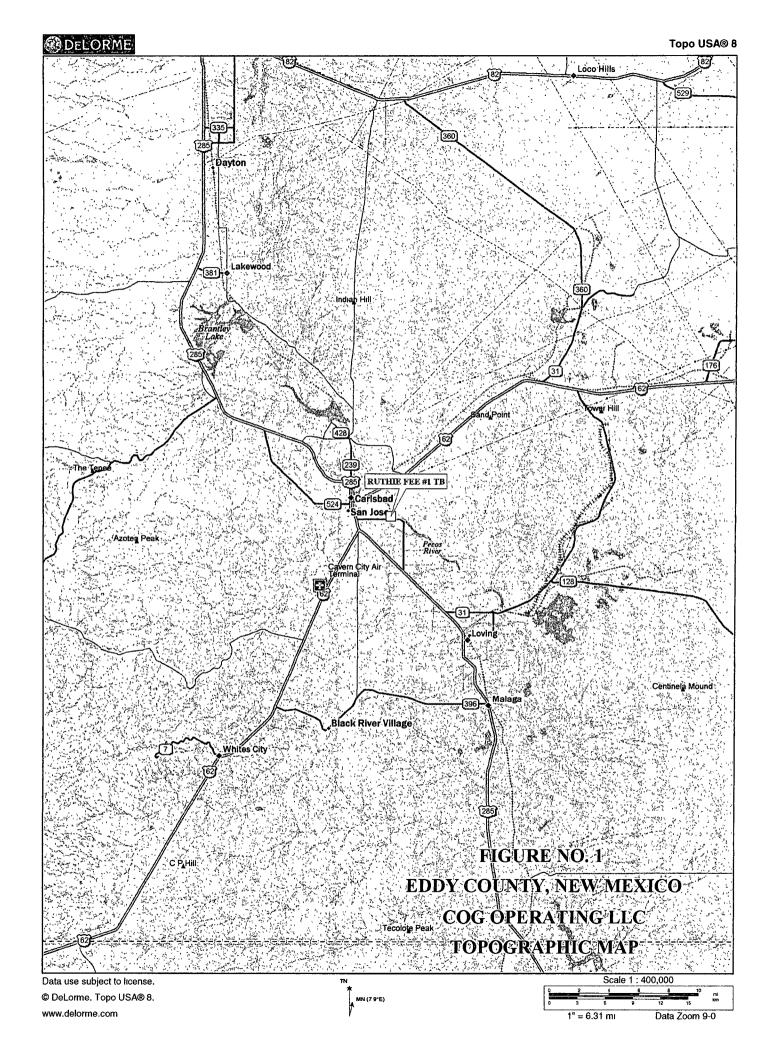
TETRA TECH

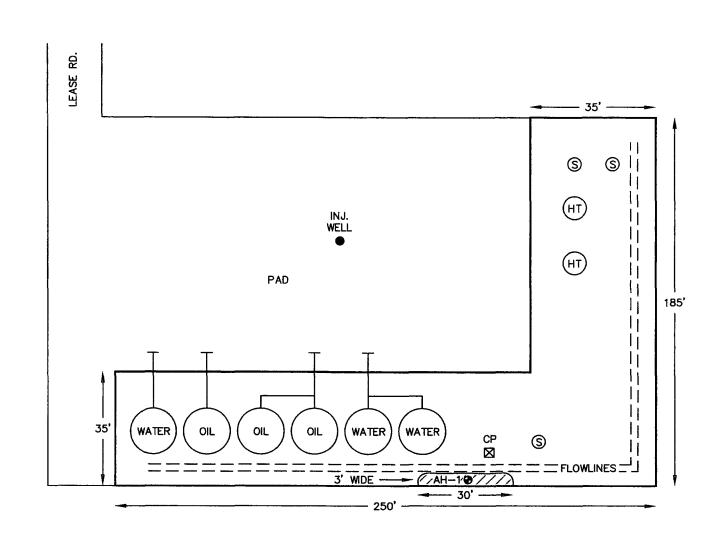
Ike Tavarez

Project Manager

cc: Pat Ellis - COG

FIGURES





NOT TO SCALE

FIGURE NO. 3

RDDY COUNTY, NEW MEXICO

COG OPERATING LLC

DATE: 12/27/10

DWN. BY: JJ

FILE: TETRA TECH, INC. MIDLAND, TEXAS

SPILL AREA
SAMPLE LOCATIONS

TABLE

Table 1 COG Operating LLC. Ruthie Fee #1 EDDY COUNTY, NEW MEXICO

Sample	Sample	Sample	Depth	Soi	l Status	TF	PH (mg/k	g)	Benzene	Toluene	Toluene Ethlybenzene		Chloride	
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
AH-1	12/27/2010	0-1'	This is		X	2,030	1,840	3,870					~~ · <200· ~	
		1-1.5'			Χ	2.44	<50.0	<50.0	÷				223	
CS-1	3/24/2011	1-1.5'		Х		-	_	-	<0.0200	<0.0200	<0.0200	<0.0200		

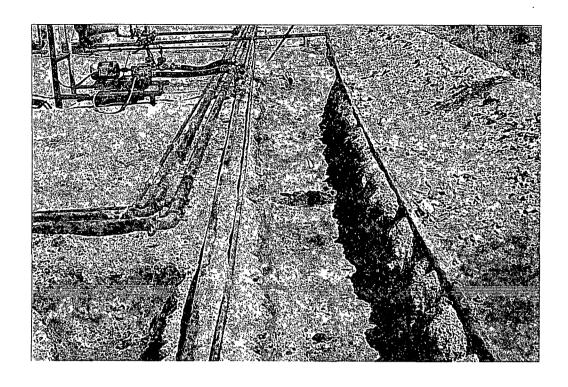
BEB Below Excavation Bottom

(--) Not Analyzed

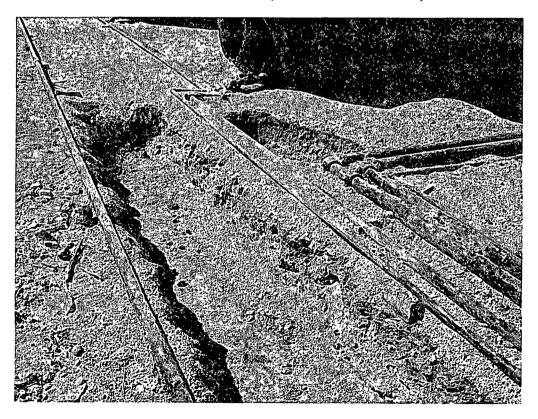
Excavated Depth

COG Operating LLC Ruthie Fee #1 Eddy County, New Mexico





View east – final excavation depth and CS-1 sample location



View west - final excavation depth

APPENDIX A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

						OPERA	TOR		🛛 Initi:	al Report		Final Re	port
Name of Co	mpany	COG OP	ERATIN	G LLC		Contact	P	at Ellis				******	
Address	550 W.	Texas, Suite	100, Mic	lland, TX 7970	1	Telephone l	No. 432-	230-00	77				
Facility Nar	ne	Ruthi	e Fee #1			Facility Typ	e Tan	k Batter	у				
Surface Ow	ner Pri	ivate		Mineral C	wner				Lease N	lo. (API#)	30-01	5-33403	
<u> </u>				T 0.64	mr Ox	LOEDE	· · · · · · · · · · · · · · · · · · ·		L				
	r <u></u>				_	OF RE				<u> </u>			
Unit Letter M	Section 10	Township 22S	Range 27E	Feet from the	North	South Line	Feet from the	East/ W	est Line/	County 	Eddy		
		,		Latitude 32 2	24.170	Longitu	nde 104 11.024						
				NAT	URE	OF REL	EASE						
Type of Rele							Release 17bbls			Recovered 1			
Source of Re		culating pump	discharge	valve		11/22/2010		:e	Date and 11/22/201	Hour of Disc 10 11:00	covery) p.m.		
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required						If YES, To	Whom?					$\overline{\mathbf{n}}$	
By Whom?						Date and I	four			-AET	AL	· • • • • • • • • • • • • • • • • • • •	
Was a Water	course Read					If YES, Ve	olume Impacting (he Wate	rcourse	FOP.	0	11	
☐ Yes ☒ No						If YES, Volume Impacting the Watercourse PLU 0 8 2011							
If a Watercourse was Impacted, Describe Fully.*							<u> </u>			MOCD	ΔRÍ	TESIA	7
Describe Cau	se of Probl	em and Reme	dial Action	Taken.*					/1	MOCO			
A cow got in:	side the Tar	ık Battery fen	ce and rub	bed the circulatin	g pump	discharge va	lve partially open	. The va	-				
Describe Are	a Affected	and Cleanup A	Action Tak	en.*				·····					
fluids were co	ontained ins the Ruthie trea to delin	side the dike v Fee #1, Unit N neate any poss	valls of the 11, Sec. 10-	facility. The dim T22S-R27E, 102	ensions 6' FSL	of the spill a & 660' FWL	d we were able to rea were 2' x 30' , Eddy County N present a remedia	within th M, (API#	ne facility. 30-015-3	(The closes 33403). Tetr	t well a Tech	location to will samp	le
regulations al public health should their o	l operators or the envir perations h iment. In a	are required to ronment. The ave failed to a ddition, NMC	o report an acceptance dequately ICD accept	d/or file certain re e of a C-141 repo investigate and re	elease n ort by the emediat	otifications a e NMOCD m e contaminati	knowledge and und perform correct arked as "Final Right to the operator of the operator opera	ctive acti eport" de eat to gre	ons for rele oes not reli ound water	eases which eve the oper , surface wa	may en ator of ter, hu	ndanger Fliability man health	ı
				_			OIL CON:	SERV.	ATION	DIVISIO	N		
Signature:			T	5									
Printed Name	:	Josh	Russo			Approved by	District Supervise	or:					
Title:		HSE Co	oordinator			Approval Da	te:	E	xpiration	Date:			
E-mail Addre	ess:	jrusso@conc	horesource	es.com		Conditions of	Approval:			Attached			
	3/2010	Phone ets If Necess		-212-2399									

APPENDIX B

Water Well Data Average Depth to Groundwater (ft) COG - Ruthie Fee #1 Eddy County, New Mexico

	21 Sc	outh	2	26 East			21 S	outh	27	' East			21 :	South		28 East	
	5 65	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
		<u> </u>			89	175	350			<u> </u>	186		<u> </u>				
	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
6	170	<u> </u>	115				ļ	78		<u> </u>		<u> </u>					
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
	178 35								<u> </u>	<u> </u>			37				
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
	210			34		36 27		75	ļ								<u> </u>
0	29	28	27	26	25	30	29	28 40	27	26	25	30	29	28	27	26	25
15		<u> </u>			40		31 30	46	ļ	70 32		<u> </u>					
1	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
	164	120	<u> </u>		26	17	15	<u> </u>		30			<u> </u>				
														_			
	22 Sc	outh		26 East	ومستسسيسب		22 S			East				South		28 East	
i	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
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•	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
							ļ	40 18	40	<u> </u>							
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
		ļ	_			<u> </u>		70 32	48 22	ļ	1	<u></u>				4	4
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
	-	1	100			-	-	100	107	00	05		-	100			105
0	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
		100	104	105	36	31	100	33	34	35	36	31	32	33	34	35	36
11	32	33	34	35	36	31	32	33	34	33	30	31	32	33	34	35	30
-						L	<u> </u>			<u> </u>	<u> </u>						
	23 S	outh	-	26 East			23 S	outh	27	' East			23 9	South	2	8 East	
	15	14	3	2	1	6	5	14	3	2	1	6 16.5		4	3	2	1
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•]''	'	'~	1				'		'		63	['	14	1	33
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
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New Mexico State Engineers Well Reports
USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

SITE Location

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet) Sub QQQ. Depth Depth Water POD Number basin Use County 64 16 4 Sec Tws Rng X Y Well WaterColumn C 01407 DOM ED 3 3 1 16 22S 27E 575009 3584324* 86 C 01493 C **PRO** ED 2 3 3 09 228 27E 60 18 42 575205 3585337* C 01545 С DOM 27E ED 1 3 1 **22S** 16 575009 3584524* 90 C DOM C 01560 ED 2 1 16 22S 27E 80 37 43 575513 3584836* С C 01853 DOL ED 2 16 **22S** 27E 3584841* 13 1 575918 55 42 C C 01861 DOL ED 2 16 **22S** 27E 3584836* 60 1 575513 C 02127 C **PRO** ED 3 4 4 02 **22S** 3586810* 30 130 27E 579458 160 C 02242 **IRR** ED 4 15 22\$ 27E 577443 3584150* 128 1 150 22 С C 02242 **IRR** ED 15 **22S** 27E 3584150* 128 1 4 577443 150 22 C 02374 С DOL ED 3 4 09 22S 27E 39 575916 3585247* 54 15 C C 02379 DOL ED 3 4 09 **22S** 27E 575916 3585247* 55 20 35 C 02899 С DOL €D 3 4 09 **22S** 27E 3585346* 33 22 575815 11 C C 03029 DOM ED 3 4 09 **22S** 45 18 27 27E 575916 3585247* C 03038 C DOM ED 3 4 09 22S 27E 575815 3585346* 43 15 28 44 feet Average Depth to Water:

Minimum Depth: 15 feet

Maximum Depth:

184 feet

Record Count: 43

PLSS Search:

Section(s): 2, 3, 4, 11, 10, Township: 22S Range: 27E

9, 14, 15, 16



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

Propagation Section 18		79 SEC. 1871	(quart									800.JV	(In fee	
POD Number		Carrier State			10,000	EM-R 16	1100	≀Tws	CHAMPIANT.	X		Depth D	epth; \	Nater
C 00021 A		IRR	ED	4	4	4	09	228	27E	576421	3585150*	196	40	156
C 00021 A	С	IRR	ED	4	4	4	09	228	27E	576421	3585150*	196	40	156
C 00023		IRR	ED	3	3	3	09	228	27E	575005	3585137*	90	35	55
C 00023 S		IRR	ED	3	3	3	09	228	27E	575005	3585137*	90		
C 00043	С	DOL	ED	3	3	3	14	228	27E	578256	3583557*	120		
C 00092		IRR	ED	4	3	3	09	22S	27E	575205	3585137*	70	40	30
C 00102		IRR	ED	1	3	1	16	22S	27E	575009	3584524*	164	70	94
C 00160	С	DOM	ED	2	3	3	10	228	27E	576826	3585355*	85	40	45
C 00267	С	DOM	ED	3	1	1	16	228	27E	575007	3584730*	54	42	12
C 00273	C	DOM	ED	1	2	1	16	22S	27E	575412	3584935*	100		
C 00284	С	DOM	ED		2	1	15	228	27E	577134	3584856*	130	20	110
C 00403	C	DOM	ED		2	1	16	228	27E	575513	3584836*	106	34	72
C 00479	С	DOM	ED			3	03	22S	27E	576919	3587082*	200		
C 00576		IRR	ED	3	1	1	15	22S	27E	576628	3584749*	119	184	-65
C 00576	С	IRR	ED	3	1	1	15	228	27E	576628	3584749*	119	184	-65
C 00576 S		IRR	ED	2	4	1	15	22S	27E	577235	3584550*	172	48	124
C 00576 S	С	IRR	ED	2	4	1	15	22\$	27E	577235	3584550*	172	48	124
C 00582	С	PLS	ED	1	3	1	14	228	27E	578252	3584567*	60		
C 00589	С	IRR	ED	2	4	4	04	22\$	27E	576412	3586974*			
C 00589	С	PRO	ED	2	4	4	04	228	27E	576412	3586974*			
C 00693	С	DOM	ED	2	2	1	16	22\$	27E	575612	3584935*	70	34	36
C 00700		IRR	ED	3	3	2	15	228	27E	577441	3584355*	132		
C 00700	С	IRR	ED	3	3	2	15	22S	27E	577441	3584355*	132		
C 00701	С	DOM	ED		2	1	16	228	27E	575513	3584836*	65	34	31
C 00744		IRR	ED	3	3	4	10	228	27E	577437	3585166*	175		
C 00760	С	DOM	ED				16	22S	27E	575717	3584215*	72	44	28
C 01010	С	DOM	ED		4	3	16	228	27E	575519	3583617*	150		
C 01097	С	DOM	ED	1	1	2	16	228	27E	575817	3584940*	155	38	117
C 01110	С	DOL	ED	2	1	2	16	22S	27F	575011	3583917*	97		

APPENDIX C

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: January 4, 2011

Work Order: 10122904

Project Location: Eddy Co., NM

Project Name: Project Number: 114-6400

COG/Ruthie Fee #1

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
254343	AH-1 0-1	soil	2010-12-27	00:00	2010-12-28
254344	AH-1 1-1.5	soil	2010-12-27	00:00	2010-12-28

	TPH DRO - NEW	TPH GRO
	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
254343 - AH-1 0-1	1840	2030
254344 - AH-1 1-1.5	< 50.0	2.44

Sample: 254343 - AH-1 0-1

Param	Flag	Result	Units	RL
Chloride		< 200	mg/Kg	4.00

Sample: 254344 - AH-1 1-1.5

Param	Flag	Result	Units	RL
Chloride		223	mg/Kg	4.00



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 800 • 378 • 1296 888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301

817 • 201 • 5260

FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

E-Mail lab@traceanalysis.com

Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: January 4, 2011

Work Order: 10122904

Project Location: Eddy Co., NM

Project Name:

COG/Ruthie Fee #1

Project Number:

114-6400

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
$\overline{254343}$	AH-1 0-1	soil	2010-12-27	00:00	2010-12-28
254344	AH-1 1-1.5	soil	2010-12-27	00:00	2010-12-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project COG/Ruthie Fee #1 were received by TraceAnalysis, Inc. on 2010-12-28 and assigned to work order 10122904. Samples for work order 10122904 were received intact at a temperature of 3.3 C.

Samples were analyzed for the following tests using their respective methods.

		\mathbf{Prep}	Prep	$_{ m QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	65654	2010-12-29 at 12:25	76591	2010-12-30 at 10:44
TPH DRO - NEW	S 8015 D	65717	2011-12-31 at 10:05	76645	2011-12-31 at 10:05
TPH GRO	S 8015 D	65672	2010-12-30 at 08:51	76608	2010-12-30 at 08:51

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10122904 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: January 4, 2011 114-6400

Work Order: 10122904 COG/Ruthie Fee #1

Analytical Report

Sample: 254343 - AH-1 0-1

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 76591 Prep Batch: 65654 Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-12-30

Prep Method: N/A Analyzed By:

Page Number: 4 of 10

Eddy Co., NM

AR

Sample Preparation:

2010-12-29

Prepared By:

AR

RL

Parameter Chloride

Result Flag <200

Units mg/Kg Dilution 50

RL4.00

Sample: 254343 - AH-1 0-1

Laboratory:

Midland

Analysis:

TPH DRO - NEW

Analytical Method: Date Analyzed:

S 8015 D 2011-12-31 Prep Method: Analyzed By:

N/Akg

QC Batch: 76645 Prep Batch: 65717

Sample Preparation:

2011-12-31

Prepared By: kg

RLDilution Parameter Result Units RLFlag DRO 1840 mg/Kg 5 50.0

			•		Spike	Percent	$\operatorname{Recovery}$
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	I	382	mg/Kg	5	100	382	70 - 130

Sample: 254343 - AH-1 0-1

Laboratory: Analysis:

Midland TPH GRO

QC Batch: 76608 Prep Batch: 65672

Analytical Method: Date Analyzed:

Sample Preparation:

S 8015 D 2010-12-30 2010-12-30 Prep Method: S 5035 Analyzed By:

Prepared By:

ME ME

RL

Parameter Result Units Dilution Flag RLGRO 2030 mg/Kg 10 2.00

					Spike	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	$\mathbf{A}\mathbf{mount}$	Recovery	Limits
Trifluorotoluene (TFT)		11.0	mg/Kg	10	10.0	110	48.5 - 152
4-Bromofluorobenzene (4-BFB)	2	19.9	mg/Kg	10	10.0	199	42 - 159

¹ High surrogate recovery due to peak interference.

²High surrogate recovery due to peak interference.

114-6400

Work Order: 10122904 COG/Ruthie Fee #1

Page Number: 5 of 10 Eddy Co., NM

Sample: 254344 - AH-1 1-1.5

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 76591 Prep Batch: 65654 Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-12-30

Sample Preparation: 2010-12-29 Prep Method: N/A Analyzed By: AR

Prepared By: AR

RL

Parameter Chloride

Flag Result 223

Units mg/Kg Dilution 50 RL

4.00

Sample: 254344 - AH-1 1-1.5

Laboratory:

Midland

Analysis:

TPH DRO - NEW

QC Batch: 76645 Prep Batch: 65717

Analytical Method: Date Analyzed:

S 8015 D 2011-12-31 Sample Preparation: 2011-12-31 Prep Method: N/A Analyzed By: kg Prepared By: kg

RL

Parameter Flag $\overline{\text{DRO}}$

Result < 50.0

Units mg/Kg Dilution

RL50.0

Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Limits Recovery n-Tricosane 111 mg/Kg 1 100 111 70 - 130

Sample: 254344 - AH-1 1-1.5

Laboratory: Midland

Analysis: TPH GRO QC Batch: 76608 Prep Batch: 65672

Analytical Method: Date Analyzed:

Sample Preparation:

S 8015 D 2010-12-30 2010-12-30 Prep Method: S 5035 Analyzed By: ME

Prepared By: ME

Parameter Flag GRO

RLResult 2.44

Units mg/Kg Dilution 1

RL2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.42	mg/Kg	1	2.00	121	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.57	mg/Kg	1	2.00	128	42 - 159

Report Date: January 4, 2011 Work Order: 10122904 Page Number: 6 of 10

114-6400 COG/Ruthie Fee #1 Eddy Co., NM

Method Blank (1) QC Batch: 76591

QC Batch: 76591 Date Analyzed: 2010-12-30 Analyzed By: AR

Prep Batch: 65654 QC Preparation: 2010-12-29 Prepared By: AR

MDL

Method Blank (1) QC Batch: 76608

QC Batch: 76608 Date Analyzed: 2010-12-30 Analyzed By: ME

Prep Batch: 65672 QC Preparation: 2010-12-30 Prepared By: ME

Spike Percent Recovery Units Surrogate Flag Result Dilution Amount Recovery Limits Trifluorotoluene (TFT) 2.00 67.6 - 150 1.91 mg/Kg 1 96 4-Bromofluorobenzene (4-BFB) 2.00 1.96 mg/Kg 1 98 52.4 - 130

Method Blank (1) QC Batch: 76645

QC Batch: 76645 Date Analyzed: 2011-12-31 Analyzed By: kg

Prep Batch: 65717 QC Preparation: 2011-12-31 Prepared By: kg

Spike Percent Recovery Surrogate Flag Result Dilution Units Amount Recovery Limits 70 - 130 108 100 108 n-Tricosane mg/Kg 1

Laboratory Control Spike (LCS-1)

QC Batch: 76591 Date Analyzed: 2010-12-30 Analyzed By: AR

Prep Batch: 65654 . QC Preparation: 2010-12-29 Prepared By: AR

114-6400

Work Order: 10122904 COG/Ruthie Fee #1 Page Number: 7 of 10 Eddy Co., NM

	LCS			Spike	Matrix		Rec.
Param	Result	\mathbf{Units}	Dil.	Amount	Result	$\mathrm{Rec}.$	Limit
Chloride	96.9	mg/Kg	1	100	< 2.18	. 97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	$\mathbf{A}\mathbf{mount}$	Result	Rec.	Limit	RPD	Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 76608 Prep Batch: 65672 Date Analyzed: 2010-12-30 QC Preparation: 2010-12-30

Analyzed By: ME Prepared By: ME

	LCS			Spike	Matrix		Rec.
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit
GRO	16.4	mg/Kg	1	20.0	< 1.65	82	69.9 - 95.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	16.8	mg/Kg	1	20.0	<1.65	84	69.9 - 95.4	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	$egin{array}{c} ext{LCS} \ ext{Result} \end{array}$	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.98	1.77	mg/Kg	1	2.00	99	88	61.9 - 142
4-Bromofluorobenzene (4-BFB)	2.11	1.96	mg/Kg	1	2.00	106	98	65.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 76645 Prep Batch: 65717 Date Analyzed: 2011-12-31 QC Preparation: 2011-12-31

Analyzed By: kg Prepared By: kg

	LCS			Spike	Matrix		Rec .
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	258	mg/Kg	1	250	<14.6	103	47.5 - 144.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	264	mg/Kg	1	250	<14.6	106	47.5 - 144.1	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

114-6400

Work Order: 10122904 COG/Ruthie Fee #1

Page Number: 8 of 10

Eddy Co., NM

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	${ m Rec.}$	Rec.	Limit
n-Tricosane	113	116	mg/Kg	1	100	113	116	70 - 130

Spiked Sample: 254344 Matrix Spike (MS-1)

QC Batch: 76591 Date Analyzed:

2010-12-30

Analyzed By: AR

Prep Batch: 65654

QC Preparation: 2010-12-29

Prepared By: AR

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	10100	mg/Kg	100	10000	223	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			\mathbf{Spike}	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	\mathbf{Limit}
Chloride	10400	mg/Kg	100	10000	223	102	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 254344

QC Batch: 76608 Prep Batch: 65672

Date Analyzed:

2010-12-30 QC Preparation: 2010-12-30 Analyzed By: MEPrepared By:

		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	3	31.1	mg/Kg	1	20.0	2.4373	143	61.8 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		MSD			$_{ m Spike}$	Matrix		${ m Rec.}$		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	4	26.0	mg/Kg	1	20.0	2.4373	118	61.8 - 114	18	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	${ m Rec.}$
Surrogate	Result	Result	Units	$\mathbf{Dil}.$	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.40	2.35	mg/Kg	$\overline{1}$	2	120	118	50 - 162
4-Bromofluorobenzene (4-BFB)	2.75	2.70	${ m mg/Kg}$	1	2	138	135	50 - 162

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

114-6400

Work Order: 10122904 COG/Ruthie Fee #1

Page Number: 9 of 10 Eddy Co., NM

Matrix Spike (MS-1)

Spiked Sample: 254344

QC Batch:

76645 Prep Batch: 65717 Date Analyzed:

2011-12-31

QC Preparation: 2011-12-31 Analyzed By: kg Prepared By:

MS MatrixRec. Spike Param Result Units Dil. Amount Result Rec. Limit $\overline{\text{DRO}}$ 249 11.7 - 152.3 mg/Kg <14.6 100 250

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	$\mathbf{Dil}.$	Amount	Result	Rec.	Limit	RPD	Limit
DRO	253	mg/Kg	1	250	<14.6	101	11.7 - 152.3	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	128	130	mg/Kg	1	100	128	130	70 - 130

Standard (ICV-1)

QC Batch: 76591

Date Analyzed: 2010-12-30

Analyzed By: AR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-12-30

Standard (CCV-1)

QC Batch: 76591

Date Analyzed: 2010-12-30

Analyzed By: AR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	97.8	98	85 - 115	2010-12-30

Standard (CCV-1)

QC Batch: 76608

Date Analyzed: 2010-12-30

Analyzed By: ME

			CCVs	CCVs	CCVs	Percent	•
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
$\overline{\text{GRO}}$		mg/Kg	1.00	1.19	119	80 - 120	2010-12-30

114-6400

Work Order: 10122904 COG/Ruthie Fee #1 Page Number: 10 of 10 Eddy Co., NM

Standard (C	CCV-2)	Ì
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QC Batch: 76608

Date Analyzed: 2010-12-30

Analyzed By: ME

			CCVs True	CCVs Found	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.09	109	80 - 120	2010-12-30

Standard (CCV-1)

QC Batch: 76645

Date Analyzed: 2011-12-31

Analyzed By: kg

			CCVs True	CCVs Found	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	${ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	241	96	80 - 120	2011-12-31

Standard (CCV-2)

QC Batch: 76645

Date Analyzed: 2011-12-31

Analyzed By: kg

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	267	107	80 - 120	2011-12-31

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Report Date: April 1, 2011 Work Order: 11032817 Page Number: 1 of 1

Summary Report

Ike Tavarez

Tetra Tech

1910 N. Big Spring Street Midland, TX 79705

Report Date: April 1, 2011

Work Order: 11032817

Project Location: Eddy Co., NM Project Name:

COG/Ruthie Fee #1

Project Number: 114-6400752

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
261861	CS-1 (AH-1) 1.5'	soil	2011-03-24	14:40	2011-03-28

	BTEX								
	Benzene	Toluene	Ethylbenzene	Xylene					
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)					
261861 - CS-1 (AH-1) 1.5'	< 0.0200	< 0.0200	< 0.0200	< 0.0200					



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132

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806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301

FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

817 • 201 • 5260

E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Tetra Tech

1910 N. Big Spring Street Midland, TX, 79705

Report Date: April 1, 2011

Work Order: 11032817

Project Location: Eddy Co., NM Project Name:

COG/Ruthie Fee #1

Project Number:

114-6400752

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
261861	CS-1 (AH-1) 1.5'	soil	2011-03-24	14:40	2011-03-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 ${\bf B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project COG/Ruthie Fee #1 were received by TraceAnalysis, Inc. on 2011-03-28 and assigned to work order 11032817. Samples for work order 11032817 were received intact at a temperature of 3.6 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	$_{ m QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	67736	2011-03-28 at 14:16	79838	2011-03-29 at 00:28

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11032817 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: April 1, 2011 114-6400752

Work Order: 11032817 COG/Ruthie Fee #1 Page Number: 4 of 6 Eddy Co., NM

Analytical Report

Sample: 261861 - CS-1 (AH-1) 1.5'

Laboratory: Midland

Analysis: BTEX QC Batch: 79838 Prep Batch: 67736 Analytical Method: S 8021B
Date Analyzed: 2011-03-29
Sample Preparation: 2011-03-28

Prep Method: S 5035 Analyzed By: ME Prepared By: ME

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0200	mg/Kg	1	0.0200
Toluene		< 0.0200	mg/Kg	1	0.0200
Ethylbenzene		< 0.0200	mg/Kg	1	0.0200
Xylene		< 0.0200	mg/Kg	1	0.0200

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.72	mg/Kg	1	2.00	136	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.21	mg/Kg	1	2.00	110	38.4 - 157

Method Blank (1) QC Batch: 79838

QC Batch: 79838 Prep Batch: 67736 Date Analyzed: 2011-03-29 QC Preparation: 2011-03-28 Analyzed By: ME Prepared By: ME

		MDL		•
Parameter	Flag	Result	Units	RL
Benzene		< 0.0118	mg/Kg	0.02
Toluene		< 0.00600	mg/Kg	0.02
Ethylbenzene		< 0.00850	mg/Kg	0.02
Xylene		< 0.00613	mg/Kg	0.02

					Spike	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.84	mg/Kg	1	2.00	92	66.6 - 122
4-Bromofluorobenzenc (4-BFB)		1.45	mg/Kg	1	2.00	72	55.4 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 79838 Prep Batch: 67736 Date Analyzed: 2011-03-29 QC Preparation: 2011-03-28 Analyzed By: ME Prepared By: ME Report Date: April 1, 2011

114-6400752

Work Order: 11032817 COG/Ruthie Fee #1 Page Number: 5 of 6 Eddy Co., NM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.79	mg/Kg	1	2.00	< 0.0118	90	81.9 - 108
Toluene	1.84	mg/Kg	1	2.00	< 0.00600	92	81.9 - 107
Ethylbenzene	1.96	mg/Kg	1	2.00	< 0.00850	98	78.4 - 107
Xylene	5.83	$_{ m mg/Kg}$	1	6.00	< 0.00613	97	79.1 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.86	mg/Kg	1	2.00	< 0.0118	93	81.9 - 108	4	20
Toluene	1.94	mg/Kg	1	2.00	< 0.00600	97	81.9 - 107	5	20
Ethylbenzene	2.09	mg/Kg	1	2.00	< 0.00850	104	78.4 - 107	6	20
Xylene	6.23	mg/Kg	1	6.00	< 0.00613	104	79.1 - 107	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.96	2.08	mg/Kg	1	2.00	98	104	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.74	1.82	mg/Kg	1	2.00	87	91	69.8 - 121

Matrix Spike (MS-1) Spiked Sample: 261740

QC Batch: 79838 Prep Batch: 67736 Date Analyzed: 2011-03-29 QC Preparation: 2011-03-28 Analyzed By: ME Prepared By: ME

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$
Benzene	1.84	nıg/Kg	1	2.00	< 0.0118	92	80.5 - 112
Toluene	1.95	mg/Kg	1	2.00	< 0.00600	98	82.4 - 113
Ethylbenzene	2.12	mg/Kg	1	2.00	< 0.00850	106	83.9 - 114
Xylene	6.39	mg/Kg	1	6.00	< 0.00613	106	84 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	$rac{ ext{RPD}}{ ext{Limit}}$
Benzene	1.85	mg/Kg	1	2.00	< 0.0118	92	80.5 - 112	0	20
Toluene	1.96	mg/Kg	1	2.00	< 0.00600	98	82.4 - 113	0	20
Ethylbenzene	2.17	mg/Kg	1	2.00	< 0.00850	108	83.9 - 114	2	20
Xylene	6.53	mg/Kg	1	6.00	< 0.00613	109	84 - 114	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

 $continued \dots$

Report Date: April 1, 2011 114-6400752		Work (COG/		Page Number: 6 of 6 Eddy Co., NM				
matrix spikes continued								_
g .	MS	MSD	T	D.11	Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Triffuorotoluene (TFT)	2.37	2.34	mg/Kg	1	2	118	117	41.3 - 117
4-Bromofluorobenzene (4-BFB)	2.14	2.04	mg/Kg	1	2	107	102	35.5 - 129
Standard (CCV-1)	_							
QC Batch: 79838	Date Analyzed: 2011-03-29 Analyzed By: ME							

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0842	84	80 - 120	2011-03-29
Toluene		mg/Kg	0.100	0.0866	87	80 - 120	2011-03-29
Ethylbenzene		mg/Kg	0.100	0.0920	92	80 - 120	2011-03-29
Xylene		mg/Kg	0.300	0.275	92	80 - 120	2011-03-29

Standard (CCV-2)

QC Batch: 79838

Date Analyzed: 2011-03-29

Analyzed By: ME

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0949	95	80 - 120	2011-03-29
Toluene		mg/Kg	0.100	0.0985	98	80 - 120	2011-03-29
Ethylbenzene		mg/Kg	0.100	0.106	106	80 - 120	2011-03-29
Xylene		mg/Kg	0.300	0.316	105	80 - 120	2011-03-29

¹High surrogate recovery due to peak interference.

*Work Order #: 11032817

Analysis Request of Chain of Custody Record OF: PAGE: **ANALYSIS REQUEST** (Circle or Specify Method No.) **TETRA TECH** (Ext. to C35) 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946 TX1005 **PRESERVATIVE METHOD** Gamma Spec. Alpha Beta (Air) LAB I.D. COMP. SAMPLE DENTIFICATION DATE TIME NUMBER 261801 RECEIVED BY: (Signature) SAMPLET BY: (Primarynitial) [Lillians (Nove) Time: Time: RELINQUISHED BY: (Sign Date: RECEIVED BY: (Signature) Date: AIRBILL #: FEDEX Time: Time: OTHER: HAND DELIVERED UPS RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature) Date: TETRA TECH CONTACT PERSON: Results by: Time: Time: RECEIVING LABORATORY: RECEIVED BY: (Signature) ADDRESS: RUSH Charges Authorized: CITY: ·28.1 (7:30 CONTACT: PHONE: Yes Na SAMPLE CONDITION WHEN RECEIVED: REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.