2RP-442		Bonort T	what Classics Pa	nort
and an	The Party of the State of the		ype: Closure Re	
General Site:	Information:	Caddo Fed	A SUM FIRE DESIGN AND ADDRESS AND ADDRESS ADDRE	
Company:		COG Opera		
	nship and Range	Unit B		7S R30E
Lease Numb		API-30-015		
County:		Eddy Cour		
GPS:			32.83905° N	103.99332° W
Surface Own	er:	Federal	02.00000 11	
Mineral Own			······································	<u></u>
Directions:		From Loco H	lills and Co. Rd. 217, travel	north on Co. Rd. 217 for 1.4m. Turn left on lease
Directions.		1	4m, arrive at site on left side	
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				en er eine sin eine sin eine sin eine sin eine sin eine eine
Release Data				
Date Release	d:	9/2/2010		
Type Release	);	Produced F	luid	
Source of Col			Tubing backpressure valv	/e
Fluid Release	· · · · · · · · · · · · · · · · · · ·	10 bbls		
Fluids Recove		5 bbls	The second of the second se	
Official Com	munication			
Name:	Pat Ellis	· · · · · · · · · · · · · · · · · · ·		lke Tavarez
Company:	COG Operating	1. LLC		Tetra Tech
Address:	550 W. Texas A			1910 N. Big Spring
P.O. Box		we. ole. 1000		
**************************************			-+	
City:	Midland Texas,			Midland, Texas
Phone numbe	er: (432) 686-3023	j		(432) 682-4559
Fax:	(432) 684-7137	•		
Email:	pellis@conchor	resources.com		ike.tavarez@tetratech.com
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	A DECEMBER OF BALLENESS			
Ranking Crit	eria		AND DE AS	
Depth to Grou			Ranking Score	Site Data
<b>Depth to Grou</b> <50 ft			Ranking Score	Site Data
<b>Depth to Grou</b> <50 ft 50-99 ft			Ranking Score2010	
<b>Depth to Grou</b> <50 ft			Ranking Score	Site Data 0
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<b>Depth to Grou</b> <50 ft 50-99 ft >100 ft. <b>WellHead Pro</b> t	ndwater:		Ranking Score2010	
<b>Depth to Grou</b> <50 ft 50-99 ft >100 ft. <b>WellHead Prot</b> Water Source	ndwater:	00 ft.	Ranking Score20100Ranking Score	0
<b>Depth to Grou</b> <50 ft 50-99 ft >100 ft. <b>WellHead Prot</b> Water Source Water Source	ndwater: ection: <1,000 ft., Private <20 >1,000 ft., Private >20	00 ft.	Ranking Score20100Ranking Score20	0 Site Data
<b>Depth to Grou</b> <50 ft 50-99 ft >100 ft. <b>WellHead Prot</b> Water Source Water Source <b>Surface Body</b>	ndwater: ection: <1,000 ft., Private <20 >1,000 ft., Private >20	00 ft.	Ranking Score20100Ranking Score20	0 Site Data 0
Depth to Grou <50 ft 50-99 ft >100 ft. WellHead Prot Water Source Water Source Surface Body <200 ft.	ndwater: ection: <1,000 ft., Private <20 >1,000 ft., Private >20 of Water:	00 ft.	Ranking Score20100Ranking Score200Ranking Score2020	0 Site Data 0
<b>Depth to Grou</b> <50 ft 50-99 ft >100 ft. <b>WellHead Prot</b> Water Source Water Source <b>Surface Body</b> <200 ft. 200 ft - 1,000 ft	ndwater: ection: <1,000 ft., Private <20 >1,000 ft., Private >20 of Water:	00 ft.	Ranking Score         20           10         0           Ranking Score           20         0           Ranking Score           20         0           Ranking Score           20         0           10	0 Site Data 0 Site Data
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February 4, 2011

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

### Re: Closure for the COG Operating LLC., Caddo Federal #6 Well Site, Unit B, Section 17, Township 17 South, Range 30 East, Eddy County, New Mexico. 2RP-442

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Caddo Federal #6 Well Site located in Unit B, Section 17, Township 17 South, Range 30 East, Eddy County, New Mexico. (Site). The spill site coordinates are N 32.83905°, W 103.99332°. 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 September 02, 2010, and released approximately ten (10) barrels of produced fluid from a clog in the tubing backpressure valve. To alleviate the problem, COG personnel removed the backpressure valve, unclogged it and repacked the stuffing box. Five (5) barrels of standing fluids were recovered. The spill initiated at the pump jack, affecting an area of 100' x 120' (tapering to 60') length area, which ran south across the pad. The initial C-141 form is enclosed in Appendix A.

### Groundwater

No water wells were listed within Section 17. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 250' below surface. The average depth to groundwater map is shown in Appendix B.



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### 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 5,000 mg/kg.

### **Soil Assessment and Analytical Results**

On September 15, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of four (4) auger holes (AH-1 through AH-4) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all of the submitted samples were below the RRAL for TPH and BTEX. Elevated chloride concentrations were detected for AH-1 of 863 mg/kg (0-1'), AH-2 of 1,800 mg/kg (0-1'), AH-3 of 2,000 mg/kg (0-1'), AH-4 of 3,760 mg/kg (0-1'). All chloride concentrations significantly declined with depth.

### **Closure Activities**

As per the approved work plan, Tetra Tech personnel supervised the removal approximately 1.0' of impacted material on October 19, 2010. Approximately 440 cubic yards of soil were excavated and transported to CRI Inc. for proper disposal. Once excavated to the appropriate depths, two (2) confirmation samples were collected from the bottom of the excavation, as requested by the BLM. All of the sample locations showed chloride concentrations of <200 mg/kg. The sample locations are shown on Figure 4. The confirmation sample results are shown in Table 2. The excavated area was then backfilled and brought up to surface grade with clean soils.



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Based on the results, COG requests closure of the site. The C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559

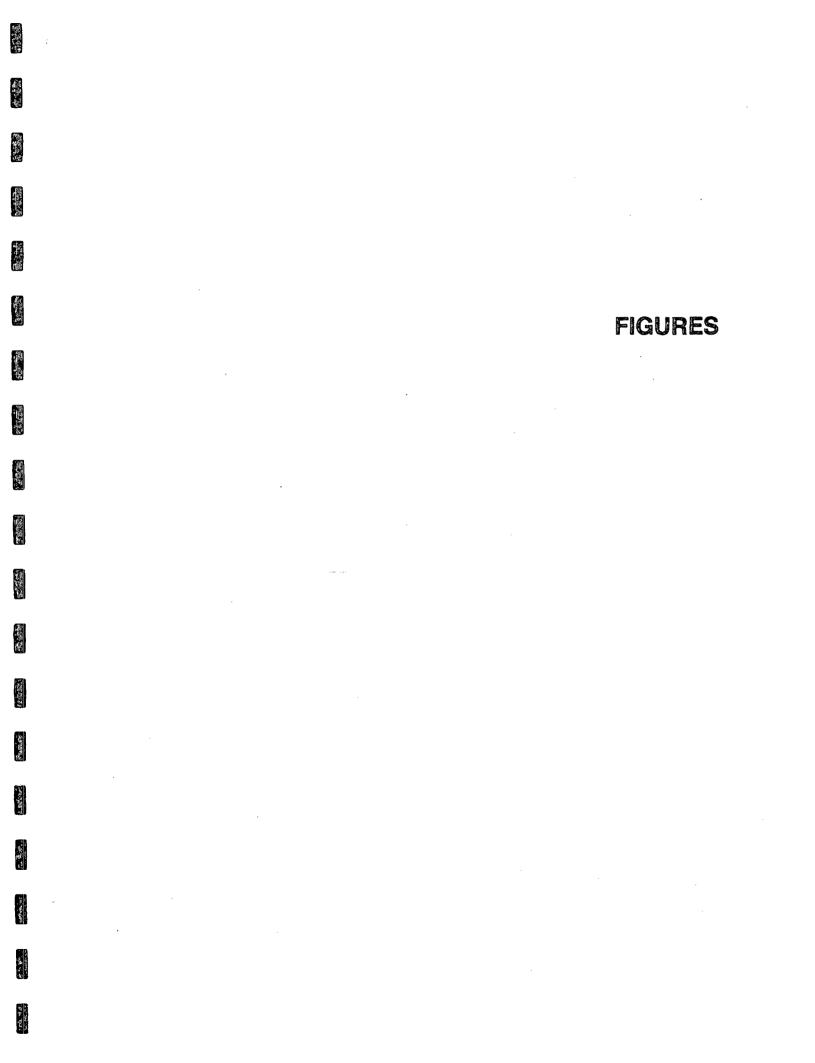
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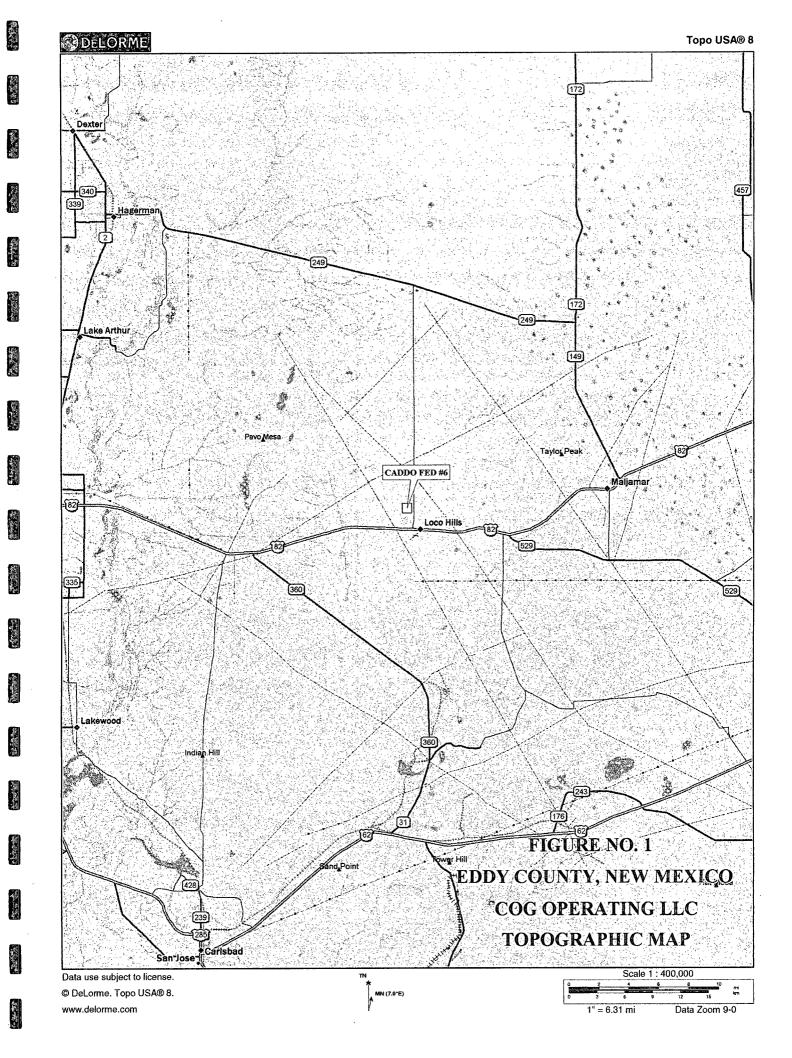
Respectfully submitted, TETRA TECH

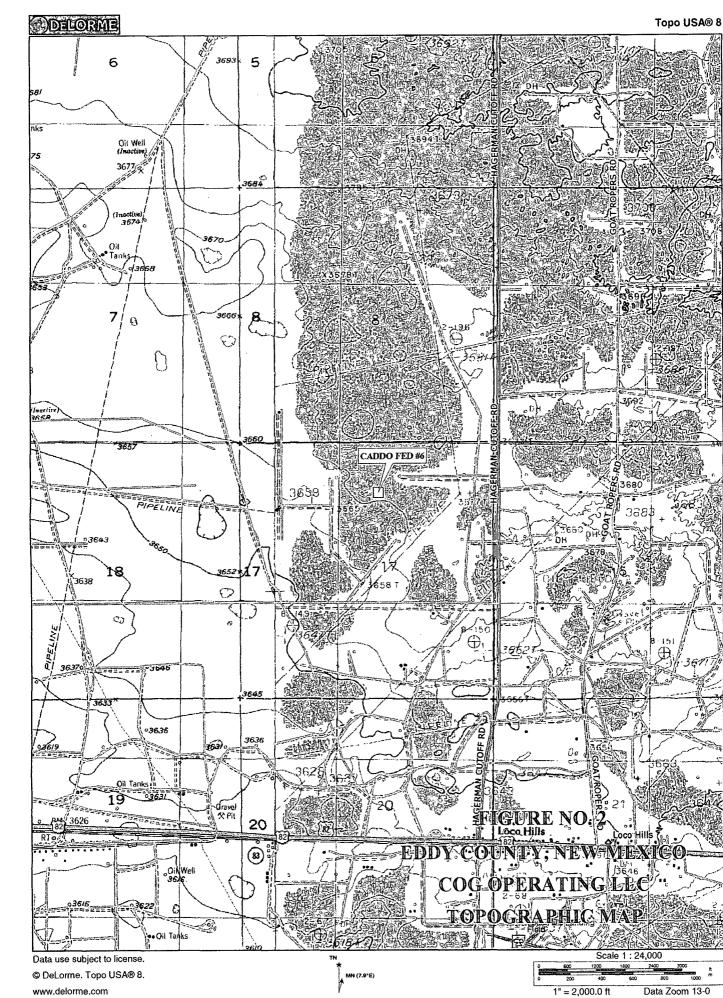
Ike Tavareź

Project Manager

cc: Pat Ellis – COG cc: Terry Gregston – BLM







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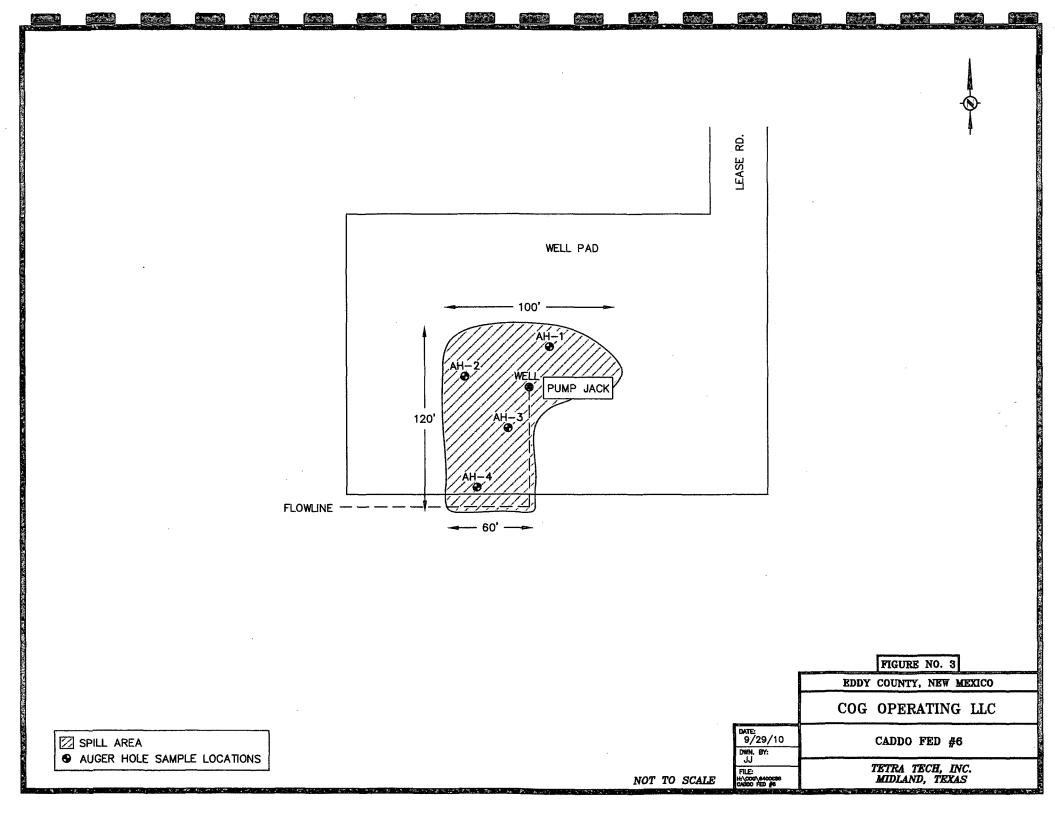
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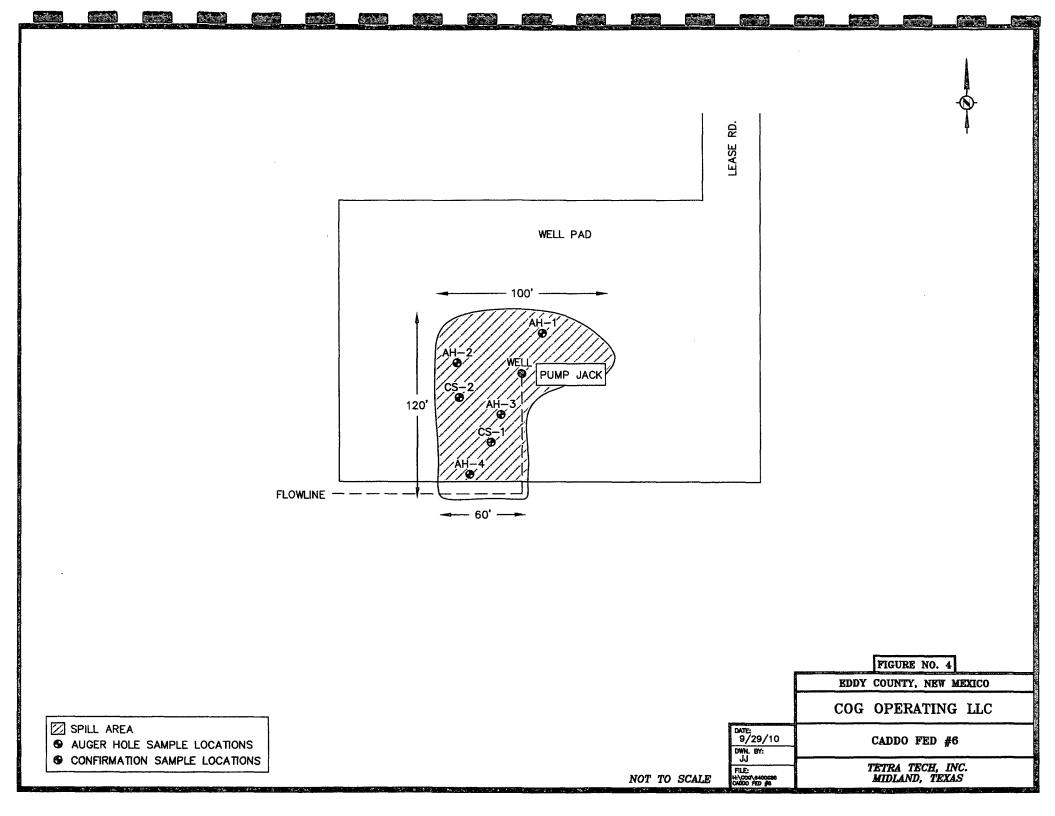
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## Table 1

COG Operating LLC.

CADDO FEDERAL #6

### Eddy County, New Mexico

Sample	Sample	Sample	Depth	Soil	Status	T	PH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	9/15/2010	0-1'			X	<2.00	90.1	90.1					863
	lt	1-1.5'		Х		-	_	-	-	-	-	-	269
	11	2-2.5'		Х		-	-	-	•	-	-	-	<200
	11	3-3.5'		Х		-	-	-	-	-		-	<200
	"	4-4.5'		Х		-	-	-	_	-		-	<200
	n	5-5.5'		X		-	-	-	-	-		~	<200
AH-2	9/15/2010	<b>0-1</b>			X	<100	4,400	4,400	<1.00	<1.00	2.11	4.36	1,800
	11	1-1.5'		X	- 655	-	-	-	-	~	<u> </u>	-	<200
	1	2-2.5'		X		-	-	-	-	-		-	214
AH-3	9/15/2010	0-1'			X	<2.00	> 270	270	<0.0200	<0.0200	<0.0200	<0.0200	2,000
- <u>-</u>	0	1-1.5'		Х		-	-	-		-	-	-	<200
	11	2-2.5'		X		-	-	-	-	-	-	-	<200
	n	3-3.5'		Х		-	-	-	-	-	-	-	<200
	H	4-4.5'		X		-	-	-		-	······································	-	<200
AH-4	9/15/2010	0-1'			X	<2.00	<50.0	<50.0					3,760
	11	1-1.5'		X		-	-	-		-		-	478

BEB Below Excavation Bottom

(--) Not Analyzed

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Excavation Depths

### Table 2 COG Operating LLC. CADDO FEDERAL #6 Eddy County, New Mexico

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Sample	Sample	Sample	Depth	Soil	Status	TI	PH (mg/k	g)	Chloride
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)
CS-1	10/19/2010	0-1'	1'	х		-	-	-	<200
CS-2	10/19/2010	0-1'	1'	х		-	-	-	<200

BEB Below Excavation Bottom

(--) Not Analyzed

NO TRANS

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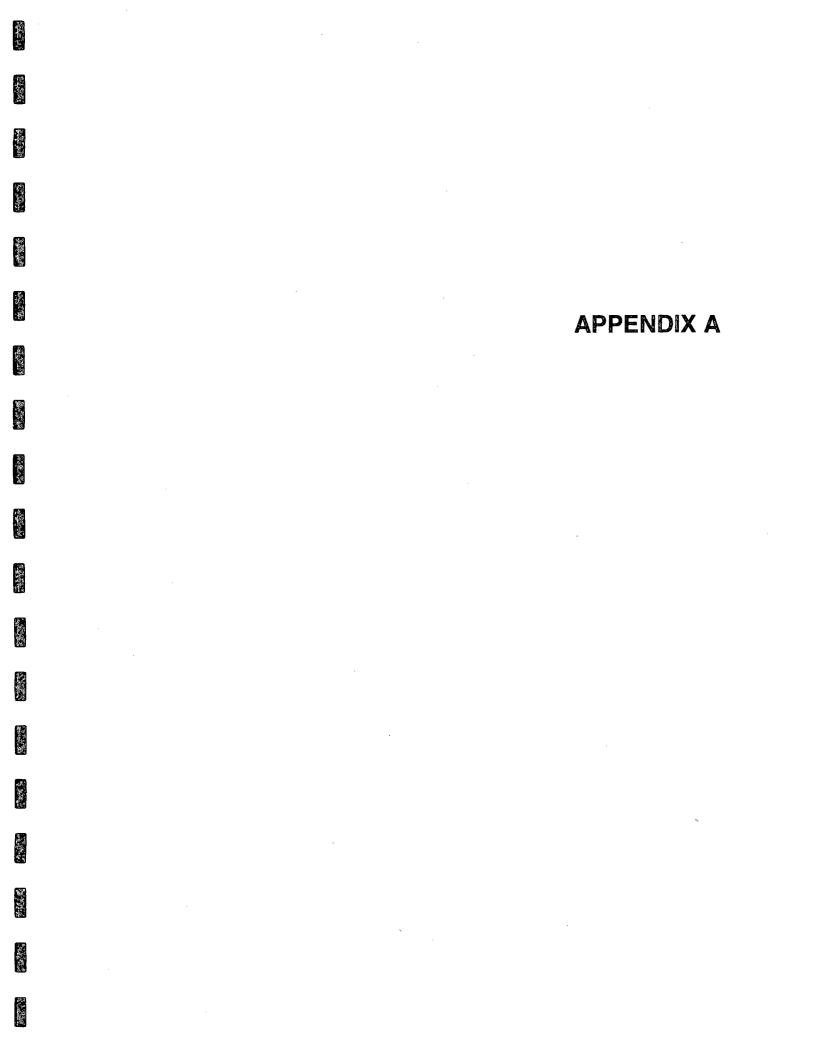
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	District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III	Energy M	inerals	f New Mex and Natura rvation Div	l Resources		Submit 2 (	vised O	Form C-141 ctober 10, 2003 to appropriate
	1000 Rio Brazos Road, Aztec, NM 87410 District IV	1220		h St. Franc					in accordance e 116 on back
	1220 S. St. Francis Dr., Santa Fe, NM 87505	S	anta F	Fe, NM 875	05				side of form
		<b>Release Notifi</b>	catio	n and Co	orrective A	ction			
				<b>OPERA</b>	FOR	🛛 Init	tial Report		Final Repor
		ERATING LLC		Contact		at Ellis			
		100, Midland, TX 7970 Federal #6	)]	Telephone 1 Facility Typ		230-0077 Tellhead			
_		· · · · · · · · · · · · · · · · · · ·	<u>.</u>	racinty ryp	νγ γγ				
	Surface Owner Federal	Mineral	Owner			Lease	No. (API# NMN	) 30-0 M2933	
<u> </u>		LOC	ATIC	N OF RE	LEASE				
町次海	Unit Letter Section Township B 17 17S	RangeFeet from the30E990'	1	h/South Line NORTH	Feet from the 2310'	East/West Line EAST	1 -	Eddy	9
S. S. S.		Latitude 32	2 50.46	Longitu	de 103 59.577				1
- M		NA	TURI	E OF REL	EASE				
	Type of Release Produced fluid Source of Release Wellhead				Release 10bbls lour of Occurren		Recovered d Hour of Di		
Sec. Maria	Source of Release wenneau			09/02/2010			010 8:00 a.		
	Was Immediate Notice Given?	Yes 🛛 No 🖾 Not F	Required	If YES, To	Whom?				
t the set	By Whom? Was a Watercourse Reached?	Yes 🛛 No		Date and H		the Watercourse.			
	If a Watercourse was Impacted, Descr								
	Describe Cause of Problem and Reme The cause of the problem was due to t and the stuffing box was re-packed.		ve bein	g plugged by p	acking. The tubi	ng backpressure v	alve was rem	ioved a	nd unplugged
	Describe Area Affected and Cleanup A	Action Taken.*							
	Initially 10bbls or produced fluid was 30' x 60' northwest of the unit, 8' x 13 been scraped and the contaminated ma any possible contamination from the re- remediation work.	5' north of the unit, and a 3 iterial has been hauled off	3' x 20' to the a	area running o ppropriate disp	ff the south end c osal facility. Teti	f the location into a Tech will samp	the pasture. le the spill sit	The page of the pa	d location has o delineate
	I hereby certify that the information giregulations all operators are required t public health or the environment. The should their operations have failed to a or the environment. In addition, NMC federal, state, or local laws and/or regu	o report and/or file certain acceptance of a C-141 rep adequately investigate and 0CD acceptance of a C-14	release bort by t remedi	notifications a the NMOCD m ate contaminat	nd perform corre arked as "Final F on that pose a th	ctive actions for re Report" does not re reat to ground wat	eleases which elieve the ope ter, surface w	i may el rator o ater, hu	ndanger f liability man health
Ş.					OIL CON	SERVATIO	N DIVISI	<u>DN</u>	
1.22 Jack	Signature:			Approved by	District Supervi	20r"			
and the second	Printed Name: Josh	Russo		rsphoved by	instruct ouper vi				
E. C.	Title: HSE C	oordinator		Approval Da	te:	Expiratio	n Date:		
	E-mail Address: jrusso@cone	horesources.com		Conditions o			Attached	I 🗌	
1	Date: 09/02/2010 Phone								
	* Attach Additional Sheets If Necess	ary							<b> </b>
17. A.									

E.Mageria	District I 1625 N. French Dr., Hobbs, NM 88240 District II Ene	State of rgy Mineral	f New Mex s and Natura		c	CEIVE		Davisad Oc	Form C-141 tober 10, 2003
5. 4 . S. 2	1301 W. Grand Avenue, Artesia, NM 88210 District III		ervation Div		FEE	3 1 4 201	Submit	2 Copies t	o appropriate n accordance 116 on back
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fille.	Name of Company COG Operating LLC		OPERA Contact Pa		<u></u>	🗌 Initia	al Report	$\square$	Final Report
	Address 550 W. Texas, Suite 1300 Midland, Texa	as 79701	Telephone N		85-4332				
-	Facility Name Caddo Federal #6		Facility Typ						
	Surface Owner: Federal M	ineral Owner			·	Lease N	lo. API 3	0-015-3	6673
		LOCATIC	ON OF REI	LEASE					
			h/South Line	Feet from t		West Line	County		
	B 17 17S 30E 99	<i>i</i> 0 <sup>.</sup>	NORTH	2310'		EAST		Eddy	
2253	Latitude	e N 32 50.46	° Longitude	W 103 59	.577°				
		NATURI	E OF REL	EASE					
_	Type of Release: Produced Fluids	· · · · · · · · · · · · · · · · · · ·	Volume of	Release 101		Volume R			
	Source of Release: Wellhead		Date and H 9/02/10	lour of Occur	rence	Date and 1 9/02/10	Hour of C		8:00a.m.
	Was Immediate Notice Given?	Not Required	If YES, To	Whom?	*****				
14. 14.	By Whom?			lour 3/15/10	4:59 p.m.				
	Was a Watercourse Reached?		If YES, Vo	lume Impact		ercourse.			
	Yes No		N/A						
	If a Watercourse was Impacted, Describe Fully.*								
	N/A								
	Describe Cause of Problem and Remedial Action Taken.	k			······································				
<u>84</u>									1 1.4
	The cause of the release was due to the tubing backpressu stuffing box was re-packed.	ire valve plugge	ed by packing.	The tubing ba	ackpressure	value was r	emoved a	nd unplug	gged and the
	Describe Area Affected and Cleanup Action Taken.*				,				
	Tetra Tech inspected site and collected samples to define	onillo outont S	all that avaad			nd havelad a		nomen dian	anal Site
	was then brought up to surface grade with clean backfill n	naterial. Tetra	Tech prepared	closure report	and submit	tted to NMC	DCD for r	eview.	iosal. She
623	I hereby certify that the information given above is true a	nd complete to	the best of my	knowledge ar	nd understar	nd that purs	uant to N	MOCD ru	les and
	regulations all operators are required to report and/or file public health or the environment. The acceptance of a C-	certain release	notifications ar	nd perform co arked as "Fin:	rrective act	ions for rele	ases which	h may en erator of	danger liability
	should their operations have failed to adequately investig	ate and remedia	te contamination	on that pose a	threat to g	round water.	, surface	water, hun	nan health
	or the environment. In addition, NMOCD acceptance of federal, state, or local/laws and/or regulations.	a C-141 report	does not relieve	e the operator	of response	ibility for co	mpliance	with any	other
	$ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $			OIL CO	DNSERV	ATION	DIVIS	<u>ION</u>	
	Signature:								
R.	Printed Name: Ike Tavarez AGENT for	COG	Approved by	District Supe	rvisor:				
12	Title: Project Manager	/	Approval Date	e:		Expiration I	Date:		
	E-mail Address: Ike.Tavarez@TetraTech.com		Conditions of		·····			******	
æ	alala		Conditions Of	Appiovai.			Attache	ed 🔲	
*	Date: Phone: (432) 68 * Attach Additional Sheets If Necessary	2-4559			<u></u>	······			
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## **APPENDIX B**

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### Water Well Data Average Depth to Groundwater (ft) COG - Caddo Federal #6 Eddy County, New Mexico

	16 So	outh	1	29 East	t		16 S	outh	3	0 East			16 :	South	3	31 East	t
5	5	4	3	5	1	6	5	4	3	2	1	6	5	4	3	2	1
	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
		ļ															288
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13 113
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
10																	
0	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
1	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
												290					
	17 Sc	outh	-	29 East	t		17 S	outh	3	0 East			17 :	South	3	B1 East	t
<b>)</b>	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8 .	9	10	11	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
9	20	21	22	23	24	19	20		22	23	24	19	20	21	22	23	24
19	20	21	80	20	24	19	20	21	22	23	24	19	20	21	22	23	24
30	29 <b>210</b> 208'	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
				153				<u> </u>							271		
	18 Sc	outh	:	29 East	t		18 S	outh	3	0 East			18 :	South	3	B1 East	ł
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
,	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
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8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
10						10		01	100							317	-
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
0	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
1	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
			1			I	1						[ <sup></sup>			261	·

New Mexico State Engineers Well Reports

USGS Well Reports

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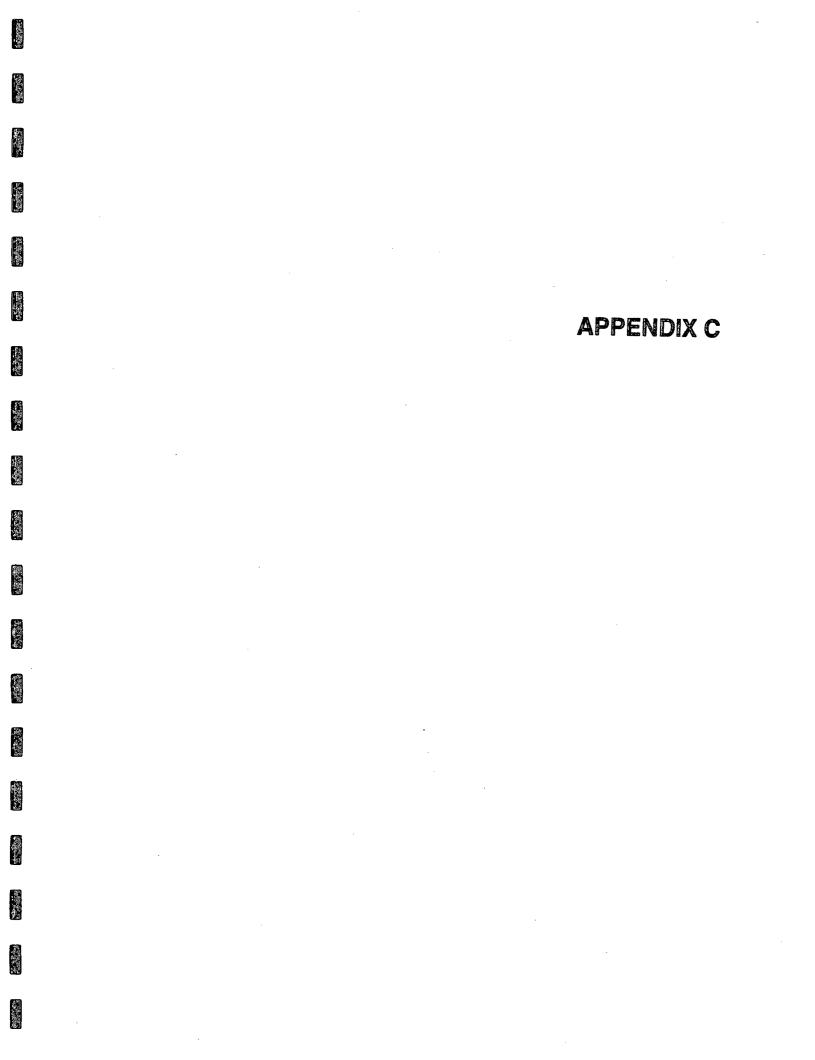
ALC: NO.

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Field water level

New Mexico Water and Infrastructure Data System



Report Date: September 27, 2010

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**Summary Report** 

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

Report Date: September 27, 2010

# Work Order: 10091631

<b>Project</b> Location:	Eddy County, NM
Project Name:	COG/Caddo Federal #6
Project Number:	114-6400686

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
244831	AH-1 0-1	soil	2010-09-15	00:00	2010-09-16
244832	AH-1 1-1.5	soil	2010-09-15	00:00	2010-09-16
$244833^{\circ}$	AH-1 2-2.5	soil	2010-09-15	00:00	2010-09-16
244834	AH-1 3-3.5	soil	2010-09-15	00:00	2010-09-16
244835	AH-1 4-4.5	soil	2010-09-15	00:00	2010-09-16
244836	AH-1 5-5.5	soil	2010-09-15	00:00	2010-09-16
244837	• AH-2 0-1	soil	2010-09-15	00:00	2010-09-16
244838	AH-2 1-1.5	soil	2010-09-15	00:00	2010-09-16
244839	AH-2 2-2.5	soil	2010-09-15	00:00	2010-09-16
244840	AH-3 0-1	soil	2010-09-15	00:00	2010-09-16
244841	AH-3 1-1.5	soil	2010-09-15	00:00	2010-09-16
244842	AH-3 2-2.5	soil	2010-09-15	00:00	2010-09-16
244843	AH-3 3-3.5	soil	2010-09-15	00:00	2010-09-16
244844	AH-3 4-4.5	soil	2010-09-15	00:00	2010-09-16
244845	AH-4 0-1	soil	2010-09-15	00:00	2010-09-16
244846	AH-4 1-1.5	soil	2010-09-15	00:00	2010-09-16

			BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
244831 - AH-1 0-1					90.1	<2.00
244837 - AH-2 0-1	< 1.00	<1.00	2.11	4.36	4400	<100
244840 - AH-3 0-1	< 0.0200	< 0.0200	< 0.0200	< 0.0200	270	<2.00
244845 - AH-4 0-1					<50.0	$<\!2.00$

Sample: 244831 - AH-1 0-1

continued ...

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: Septe:	mber 27, 2010	Work Order: 1009163	1 Page I	Number: 2 of
sample 244831 cont	inued			
Param	Flag	Result	Units	R
Param	Flag	Result	Units	R
Chloride		863	mg/Kg	4.0
Sample: 244832 -	AH-1 1-1.5			
Param	Flag	Result	Units	R
Chloride		269	mg/Kg	4.0
Sample: 244833 -	AH-1 2-2.5			
Sample: 244833 - Param	AH-1 2-2.5 Flag	Result	Units	
	Flag AH-1 3-3.5	Result <200 Result	Units mg/Kg Units	4.0
Param Chloride Sample: 244834 - Param	Flag	<200	mg/Kg	4.0 R.
Param Chloride Sample: 244834 - Param Chloride	Flag AH-1 3-3.5 Flag	<200 Result	mg/Kg Units	R. 4.0 R. 4.0
Param Chloride Sample: 244834 - Param Chloride Sample: 244835 -	Flag AH-1 3-3.5 Flag AH-1 4-4.5	<200 Result <200	mg/Kg Units mg/Kg	4.0 R. 4.0
Param Chloride Sample: 244834 - Param Chloride	Flag AH-1 3-3.5 Flag	<200 Result	mg/Kg Units	4.0 R.
Param Chloride Sample: 244834 - Param Chloride Sample: 244835 - Param Chloride	Flag AH-1 3-3.5 Flag AH-1 4-4.5 Flag	<200 Result <200 Result	mg/Kg Units mg/Kg Units	4.0 R. 4.0 R
Param Chloride Sample: 244834 - Param Chloride Sample: 244835 - Param Chloride Sample: 244836 -	Flag AH-1 3-3.5 Flag AH-1 4-4.5 Flag AH-1 5-5.5	<200 Result <200 Result	mg/Kg Units mg/Kg Units	4.0  
Param Chloride Sample: 244834 - Param Chloride Sample: 244835 - Param	Flag AH-1 3-3.5 Flag AH-1 4-4.5 Flag	<200 <p>Result &lt;200</p> Result <200	Units mg/Kg Units mg/Kg	4.0 R. 4.0 R. R.
Param Chloride Sample: 244834 - Param Chloride Sample: 244835 - Param Chloride Sample: 244836 - Param Chloride	Flag AH-1 3-3.5 Flag AH-1 4-4.5 Flag AH-1 5-5.5 Flag	<200 <p>Result Contract of the second second</p>	Units mg/Kg Units mg/Kg Units mg/Kg	4.0 R. 4.0 R. R.
Param Chloride Sample: 244834 - Param Chloride Sample: 244835 - Param Chloride Sample: 244836 - Param	Flag AH-1 3-3.5 Flag AH-1 4-4.5 Flag AH-1 5-5.5 Flag	<200 <p>Result Contract of the second second</p>	Units mg/Kg Units mg/Kg Units mg/Kg	4.0 R. R.

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Report Date: September 27, 2010		Work Order: 10091631	Page	Number: 3 of 4
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 244839	- AH-2 2-2.5			
Param	Flag	Result	Units	RL
Chloride		214	mg/Kg	4.00
Sample: 244840	- AH-3 0-1			
Param	Flag	Result	Units	RL
Chloride		2000	mg/Kg	4.00
Sample: 244841 -	- AH-3 1-1.5			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 244842 -	· AH-3 2-2.5			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	1.00
				4.00
Sample: 244843 -	- AH-3 3-3.5			4.00
Sample: 244843 - Param		Result	Units	4.00
	- <b>AH-3 3-3.5</b> Flag		Units mg/Kg	RL
Param	Flag	Result		RL
Param Chloride	Flag AH-3 4-4.5	Result		4.00 RL 4.00 RL
Param Chloride Sample: 244844 -	Flag	Result <200	mg/Kg	RL 4.00
Param Chloride Sample: 244844 - Param	Flag AH-3 4-4.5 Flag	Result <200 Result	mg/Kg Units	RL 4.00 RL
Param Chloride Sample: 244844 - Param Chloride	Flag AH-3 4-4.5 Flag	Result <200 Result	mg/Kg Units	RL 4.00 RL

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TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: Septe	September 27, 2010         Work Order: 10091631		]	Page Number: 4 of 4
Sample: 244846	- AH-4 1-1.5			
Param	Flag	Result	Units	$\operatorname{RL}$
Chloride		478	mg/Kg	4.00

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TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

6701 Aberdeen Avenue, Suite 9 800+378+1296 806 • 794 • 1296 FAX 806 • 794 • 1298 Lubbock, Texas 79424 200 East Sunsei Hoad, Suite E El Paso. Texas 79922 888 • 588 • 3443 915+585+3443 FAX 915•585•4944 5002 Basin Street, Suite A1 Midland Texas 79703 432 • 689 • 6301 FAX 432+689+6313 6015 Harris Parkway, Suite 110 Ft. Worth. Texas 76132 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

Analytical and Quality Control Report

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

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Project Location: Eddy County, NM Project Name: COG/Caddo Federal #6 Project Number: 114-6400686

LELAP-02003

Kansas E-10317

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
244831	AH-1 0-1	- soil	2010-09-15	00:00	2010-09-16
244832	AH-1 1-1.5	soil	2010-09-15	00:00	2010-09-16
244833	AH-1 2-2.5	soil	2010-09-15	00:00	2010-09-16
244834	AH-1 3-3.5	soil	2010-09-15	00:00	2010-09-16
244835	AH-1 4-4.5	soil	2010-09-15	00:00	2010-09-16
244836	AH-1 5-5.5	soil	2010-09-15	00:00	2010-09-16
244837	AH-2 0-1	soil	2010-09-15	00:00	2010-09-16
244838	AH-2 1-1.5	soil	2010-09-15	00:00	2010-09-16
244839	AH-2 2-2.5	soil	2010-09-15	00:00	2010-09-16
244840	AH-3 0-1	soil	2010-09-15	00:00	2010-09-16

El Paso: LELAP-02002 Midland: T104704392-08-TX

Report Date: September 27, 2010

Work Order: 10091631 

T104704221-08-TX

			Date	Time	Date
Sample	Description	· Matrix	Taken	Taken	Received
244841	AH-3 1-1.5	soil	2010-09-15	00:00	2010-09-16
244842	AH-3 2-2.5	soil	2010-09-15	00:00	2010-09-16
244843	AH-3 3-3.5	soil	2010-09-15	00:00	2010-09-16
244844	AH-3 4-4.5	soil	2010-09-15	00:00	2010-09-16
244845	AH-4 0-1	soil	2010-09-15	00:00	2010-09-16
244846	AH-4 1-1.5	soil	2010-09-15	00:00	2010-09-16

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 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

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

#### Standard Flags

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

Page 2 of 22

### Case Narrative

Samples for project COG/Caddo Federal #6 were received by TraceAnalysis, Inc. on 2010-09-16 and assigned to work order 10091631. Samples for work order 10091631 were received intact at a temperature of 3.8 C.

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

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		Prep	Prep	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	$\operatorname{Batch}$	Date
BTEX	S 8021B	63249	2010-09-21 at 16:00	73738	2010-09-21 at 22:53
Chloride (Titration)	SM 4500-Cl B	63252	2010-09-22 at 08:46	73783	2010-09-23 at 09:53
Chloride (Titration)	SM 4500-Cl B	63253	2010-09-22 at 09:46	73784	2010-09-23 at 09:56
Chloride (Titration)	SM 4500-Cl B	63254	2010-09-22 at 09:47	73785	2010-09-23 at 09:58
TPH DRO - NEW	S 8015 D	63137	2010-09-16 at 15:21	73586	2010-09-16 at 15:21
TPH GRO	S 8015 D	63249	2010-09-21 at 16:00	73737	2010-09-21 at 23:20

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 10091631 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: September 27, 2010 114-6400686

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### **Analytical Report**

### Sample: 244831 - AH-1 0-1

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73783	Date Analyzed:	2010-09-23	Analyzed By:	AR
Prep Batch:	63252	Sample Preparation:	2010-09-22	Prepared By:	$\mathbf{AR}$
		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		863	mg/Kg	50	4.00

### Sample: 244831 - AH-1 0-1

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 73586 63137	IEW	Date A	nalyzed:	S 8015 D 2010-09-16 2010-09-16	Prep M Analyz Prepar	• 0
Parameter	াস	ag	RL Result	1	Jnits	Dilution	RL
DRO			<u>90.1</u>		s/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

#### Sample: 244831 - AH-1 0-1

Laboratory: Analysis: QC Batch:	Midland TPH GRO 73737		Analytical Date Anal		S 8015 D 2010-09-21		Prep Metl Analyzed	
Prep Batch:	63249		Sample Pr	eparation:	2010-09-21		Prepared	By: AG
			RL					
Parameter	Flag		$\mathbf{Result}$		Units	D	ilution	$\mathbf{RL}$
GRO			<2.00		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)	······································	1.96	mg/Kg	1	2.00	98	48.5 - 152
4-Bromofluor	obenzene (4-BFB)		1.71	mg/Kg	1	2.00	86	42 - 159

Report Date: September 27, 2010	Work Order: 10091631	Page Number: 5 of 22
114-6400686	COG/Caddo Federal #6	Eddy County, NM
Sample: 244832 - AH-1 1-1.5		

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Laboratory:		<b>.</b>			DT / A
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73783	Date Analyzed:	2010-09-23	Analyzed By:	$\mathbf{AR}$
Prep Batch:	63252	Sample Preparation:	2010-09-22	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		269	mg/Kg	50	4.00

### Sample: 244833 - AH-1 2-2.5

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 73783 63252	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-09-23 2010-09-22	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

### Sample: 244834 - AH-1 3-3.5

Chloride		<200 1	ng/Kg	50	4.00
Parameter	Flag	RL Result	Units	Dilution	$\mathbf{RL}$
Prep Batch:	63252	Sample Preparation:	2010-09-22	Prepared By:	AR
QC Batch:	73783	Date Analyzed:	2010-09-23	Analyzed By:	
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	,
Laboratory:					

### Sample: 244835 - AH-1 4-4.5

Chloride		<200	mg/Kg	50	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	63253	Sample Preparation:	2010-09-22	Prepared By:	AR
QC Batch:	73784	Date Analyzed:	2010-09-23	Analyzed By:	$\mathbf{AR}$
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:					

Report Date: September 27, 2010	Work Order: 10091631	Page Number: 6 of 22
114-6400686	COG/Caddo Federal #6	Eddy County, NM

### Sample: 244836 - AH-1 5-5.5

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 73784 63253	Analytical Method: Date Analyzed: Sample Preparation	2010-09-23	Prep Method: Analyzed By: Prepared By:	AR.
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride	······································	<200	mg/Kg	50	4.00

#### Sample: 244837 - AH-2 0-1

Laboratory:MidlandAnalysis:BTEXQC Batch:73738Prep Batch:63249			Analytical M Date Analyz Sample Prej	zed:	S 8021B 2010-09-21 2010-09-21		Prep Meth Analyzed Prepared	By: AG
			RL					
Parameter I	Flag		Result		Units	Di	lution	$\mathbf{RL}$
Benzene			<1.00		mg/Kg		50	0.0200
Toluene			< 1.00		mg/Kg		50	0.0200
Ethylbenzene			2.11		mg/Kg		50	0.0200
Xylene			4.36		mg/Kg		50	0.0200
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		······································	5.15	mg/Kg	50	5.00	103	52.8 - 137
4-Bromofluorobenzene (4-BFI	3)	ł	8.10	mg/Kg	50	5.00	162	38.4 - 157

### Sample: 244837 - AH-2 0-1

Chloride		1800	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL_
Prep Batch:	63253	Sample Preparation:	2010-09-22	Prepared By:	AR
QC Batch:	73784	Date Analyzed:	2010-09-23	Analyzed By:	$\mathbf{AR}$
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

<sup>1</sup>High surrogate recovery due to peak interference.

Report Date 114-6400686	: September 27	7, 2010			r: 10091631 o Federal #		Page Nu Edd	umber: y Coun	
Sample: 24	4837 - AH-2	0-1							
Laboratory:	Midland								
Analysis:	TPH DRO - I	NEW	•	tical Meth	od: S 801	.5 D	Prep M		N/A
QC Batch:	73586		Date Analyzed: 2010-09-16				Analyz	ed By:	$\mathbf{k}\mathbf{g}$
Prep Batch:	63137		Samp	le Preparat	ion: 2010-	09-16	Prepare	ed By:	kg
			$\mathbf{RL}$						
Parameter	F	lag	Result		Units		Dilution		$\mathbf{RL}$
DRO			4400		mg/Kg		1		50.0
						Spike	Percent	Ře	covery
Surrogate	Flag	Result	Units	Dilu	tion	Amount	Recovery		imits
n-Tricosane	2	228	mg/Kg	1		100	228		- 130
Laboratory: Analysis: QC Batch:	4837 - AH-2 Midland TPH GRO 73737 63249	0-1	Analytical Date Anal Sample Pr		S 8015 D 2010-09-2 2010-09-2		Prep Met Analyzed Prepared	By: A	5 5035 AG AG
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 73737 63249		Date Anal Sample Pr RL	yzed:	2010-09-2 2010-09-2		Analyzed Prepared	By: A	AG AG
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TPH GRO 73737 63249	<b>0-1</b> <sup>°</sup> lag	Date Anal Sample Pr RL Result	yzed:	2010-09-2 2010-09-2 Units		Analyzed Prepared Dilution	By: A	AG AG RI
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TPH GRO 73737 63249		Date Anal Sample Pr RL	yzed:	2010-09-2 2010-09-2		Analyzed Prepared	By: A	AG AG RI
Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO	Midland TPH GRO 73737 63249	flag	Date Anal Sample Pr RL Result <100	yzed: eparation:	2010-09-2 2010-09-2 Units mg/Kg	l Spike	Analyzed Prepared Dilution 50 Percent	By: A By: A Rec	AG AG 2.00
Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate	Midland TPH GRO 73737 63249 F		Date Anal Sample Pr RL Result <100	yzed: eparation: Units	2010-09-2 2010-09-2 Units mg/Kg Dilution	l Spike n Amount	Analyzed Prepared Dilution 50 Percent Recovery	By: A By: A Rec Li	AG AG 2.00 covery mits
Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu	Midland TPH GRO 73737 63249 F	<sup>r</sup> lag Flag	Date Anal Sample Pr RL Result <100	yzed: eparation:	2010-09-2 2010-09-2 Units mg/Kg	l Spike	Analyzed Prepared Dilution 50 Percent	By: A By: A Rec Li 48.5	AG AG <u>RI</u> 2.00

### Sample: 244838 - AH-2 1-1.5

Midland				
Chloride (Titration)	Analytical Met	hod: SM 4500-Cl B	Prep Method:	N/A
73784	Date Analyzed	: 2010-09-23	Analyzed By:	AR
63253	Sample Prepar	ation: 2010-09-22	Prepared By:	AR
	$\mathbf{RL}$			
Flag	Result	Units	Dilution	$\operatorname{RL}$
	<200	mg/Kg	50	4.00
	Chloride (Titration) 73784 63253	Chloride (Titration)Analytical Met73784Date Analyzed63253Sample PreparRLFlagResult	Chloride (Titration)Analytical Method:SM 4500-Cl B73784Date Analyzed:2010-09-2363253Sample Preparation:2010-09-22RLFlagResultUnits	Chloride (Titration)Analytical Method:SM 4500-Cl BPrep Method:73784Date Analyzed:2010-09-23Analyzed By:63253Sample Preparation:2010-09-22Prepared By:RLFlagResultUnitsDilution

<sup>2</sup>High surrogate recovery due to peak interference.

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Report Date: September 27, 2010 114-6400686			Work Order: 10091631 COG/Caddo Federal #6				Page Number: 8 of 2 Eddy County, N		
Sample: 24	4839 - AH-2 2-2.5								
Laboratory:	Midland								
Analysis:	Chloride (Titration)		v	tical Metho			Prep M		
QC Batch:	73784			Analyzed:	2010-09-23		Analyze	-	
Prep Batch:	63253		Sampl	e Preparat	ion: 2010-09-2	2	Prepare	d By: AR	
ť			$\mathbf{RL}$						
Parameter	Flag		Result		Units	I	Dilution	RI	
Chloride		_	<b>214</b>		mg/Kg		50	4.00	
Laboratory:	<b>4840 - AH-3 0-1</b> Midland BTEX		Analytical }	Viethod:	S 8021B		Prep Metl	hod: S 5035	
Laboratory: Analysis: QC Batch:			Analytical I Date Analy Sample Pre	zed:	S 8021B 2010-09-21 2010-09-21		Prep Metl Analyzed Prepared	By: AG	
Laboratory: Analysis: QC Batch:	Midland BTEX 73738		Date Analy	zed:	2010-09-21		Analyzed	By: AG	
Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 73738		Date Analy Sample Pre	zed:	2010-09-21 2010-09-21 Units	D	Analyzed	By: AG By: A'G RI	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland BTEX 73738 63249		Date Analy Sample Pre	zed: paration:	2010-09-21 2010-09-21	D	Analyzed Prepared	By: AG By: AG RI 0.0200	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene	Midland BTEX 73738 63249 Flag		Date Analy Sample Pre RL Result	zed: paration:	2010-09-21 2010-09-21 Units	D:	Analyzed Prepared	By: AG By: A'G RI 0.0200 0.0200	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	Midland BTEX 73738 63249 Flag		Date Analy Sample Pres RL Result <0.0200 <0.0200 <0.0200	zed: paration:	2010-09-21 2010-09-21 Units mg/Kg	D:	Analyzed Prepared ilution 1 1 1 1	By: AG By: AG RI 0.0200 0.0200 0.0200	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	Midland BTEX 73738 63249 Flag		Date Analy Sample Pres RL Result <0.0200 <0.0200	zed: paration:	2010-09-21 2010-09-21 Units mg/Kg mg/Kg	D:	Analyzed Prepared ilution 1 1	By: AG By: AG RI 0.0200 0.0200 0.0200	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene	Midland BTEX 73738 63249 Flag		Date Analy Sample Pres RL Result <0.0200 <0.0200 <0.0200	zed: paration:	2010-09-21 2010-09-21 Units mg/Kg mg/Kg mg/Kg	D  Spike	Analyzed Prepared ilution 1 1 1 1	By: AG	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	Midland BTEX 73738 63249 Flag	Flag	Date Analy Sample Pres RL Result <0.0200 <0.0200 <0.0200	zed: paration:	2010-09-21 2010-09-21 Units mg/Kg mg/Kg mg/Kg		Analyzed Prepared ilution 1 1 1 1 1	By: AG By: AG RI 0.0200 0.0200 0.0200 0.0200 Recovery Limits	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	Midland BTEX 73738 63249 Flag	Flag	Date Analy Sample Pres RL Result <0.0200 <0.0200 <0.0200 <0.0200	zed: paration:	2010-09-21 2010-09-21 Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed Prepared ilution 1 1 1 1 1 Percent	By: AG By: AG RI 0.0200 0.0200 0.0200 0.0200 Recovery	

### Sample: 244840 - AH-3 0-1

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 73784 63253	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-09-23 2010-09-22	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		2000	mg/Kg	100	4.00

114-6400686	: September 27, 2	2010			r: 10091631 > Federal #6	j		umber: 9 of 2 y County, NN
Sample: 24	4840 - AH-3 0-	1						
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - NE 73586 63137	EW	Date	ytical Metho Analyzed: le Preparat	2010-0	9-16	Prep M Analyze Prepare	ed By: kg
			-	-			-	
Parameter	Fla	D.	$\operatorname{RL}$ Result		Units		Dilution	RI
DRO		0	270		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Dilut	tion	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	1 145	117	mg/Kg	1		100	117	70 - 130
Analysis: QC Batch:	Midland TPH GRO 73737 63249		Analytical Date Anal Sample Pr	yzed:	S 8015 D 2010-09-21 2010-09-21		Prep Met Analyzed Prepared	By: AG
Analysis: QC Batch: Prep Batch:	TPH GRO 73737 63249		Date Anal Sample Pr RL	yzed:	2010-09-21 2010-09-21		Analyzed Prepared	By: AG By: AG
Analysis: QC Batch: Prep Batch: Parameter	TPH GRO 73737	g	Date Anal Sample Pr RL Result	yzed:	2010-09-21 2010-09-21 Units		Analyzed	By: AG By: AG RI
Analysis: QC Batch: Prep Batch: Parameter	TPH GRO 73737 63249	g	Date Anal Sample Pr RL	yzed:	2010-09-21 2010-09-21	Colleg	Analyzed Prepared Dilution 1	By: AG By: AG RI 2.00
Analysis: QC Batch: Prep Batch: Parameter GRO	TPH GRO 73737 63249		Date Anal Sample Pr RL Result <2.00	yzed:	2010-09-21 2010-09-21 Units	Spike Amount	Analyzed Prepared Dilution 1 Percent	By: AG By: AG RI 2.00
Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate	TPH GRO 73737 63249 Fla	g Flag	Date Anal Sample Pr RL Result	yzed: eparation:	2010-09-21 2010-09-21 Units mg/Kg	-	Analyzed Prepared Dilution 1	By: AG By: AG RI 2.00 Recovery Limits
Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotoluo 4-Bromofluor	TPH GRO 73737 63249 Fla	Flag	Date Anal Sample Pr RL Result <2.00 Result	yzed: eparation: Units	2010-09-21 2010-09-21 Units mg/Kg Dilution	Amount	Analyzed Prepared Dilution 1 Percent Recovery	By: AG By: AG RI 2.00 Recovery Limits 48.5 - 152
Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotoluo 4-Bromofluor	TPH GRO 73737 63249 Fla ene (TFT)	Flag 3) 1.5	Date Anal Sample Pr RL Result <2.00 Result 2.07 2.48 Analyt Date A Sample	yzed: eparation: Units mg/Kg	2010-09-21 2010-09-21 Units mg/Kg Dilution 1 1 1	Amount 2.00 2.00 0-Cl B -23	Analyzed Prepared Dilution 1 Percent Recovery 104	By: AG By: AG RI 2.00 Recovery Limits 48.5 - 155 42 - 159 42 - 159 ethod: N/A d By: AR
Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotoluc 4-Bromofluor Sample: 24 Laboratory: Analysis: QC Batch:	TPH GRO 73737 63249 Fla ene (TFT) robenzene (4-BFE 4841 - AH-3 1- Midland Chloride (Titrat 73784	Flag 3) 1.5 tion)	Date Anal Sample Pr RL Result <2.00 Result 2.07 2.48 Analyt Date A	yzed: eparation: Units mg/Kg mg/Kg tical Methoo Analyzed:	2010-09-21 2010-09-21 Units mg/Kg Dilution 1 1 1	Amount 2.00 2.00 0-Cl B -23	Analyzed Prepared Dilution 1 Percent Recovery 104 124 Prep Ma Analyze	By: AG By: AG <u>RI</u> 2.00 Recovery <u>Limits</u> 48.5 - 152 42 - 159 ethod: N/A d By: AR

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42 - AH-3 2-2.5 Aidland Chloride (Titration) 3784 3253 Flag	Analytical Method: Date Analyzed: Sample Preparation RL	SM 4500-Cl B 2010-09-23 : 2010-09-22	Prep Method: Analyzed By:	N/A
Chloride (Titration) 3784 3253	Date Analyzed: Sample Preparation RL	2010-09-23		N//
	RL		Prepared By:	AR AR
Flag			r v	
	Result	Units	Dilution	R
	<200	mg/Kg	50	4.0
Midland Chloride (Titration) 73784	Analytical Method: Date Analyzed:	SM 4500-Cl B 2010-09-23	Prep Method: Analyzed By:	N/. AR
3253		: 2010-09-22	Prepared By:	AR
Flag		Units	Dilution	R
				4.0
444 - AH-3 4-4.5 Midland Chloride (Titration) 73784	Analytical Method: Date Analyzed:	SM 4500-Cl B	Prep Method:	<b>N</b> T /
3253		2010-09-23 : 2010-09-22	Analyzed By: Prepared By:	AR
3253	Sample Preparation			N/A AR AR
33253 Flag				AR
	Chloride (Titration) 3784 3253 Flag 444 - AH-3 4-4.5 Aidland Chloride (Titration)	Aidland       Analytical Method:         Chloride (Titration)       Analytical Method:         3784       Date Analyzed:         3253       Sample Preparation         RL       Flag         Flag       Result         <200	Aidland Chloride (Titration) Analytical Method: SM 4500-Cl B 3784 Date Analyzed: 2010-09-23 3253 Sample Preparation: 2010-09-22 RL Flag Result Units <200 mg/Kg	Aidland       Analytical Method:       SM 4500-Cl B       Prep Method:         '3784       Date Analyzed:       2010-09-23       Analyzed By:         '3253       Sample Preparation:       2010-09-22       Prepared By:         RL       Flag       Result       Units       Dilution         < 200

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Sample: 244 Laboratory: Analysis: QC Batch:	4845 - AH-4 Midland		Work Order: 10091631 COG/Caddo Federal #6				Page Number: 11 of 2 Eddy County, NM		
Analysis:	Midland	0-1							
	manana								
OC Batch	TPH DRO - N	NEW		ytical Metho	od: S 8015	D	Prep M	lethod: N/A	
	73586		Date Analyzed: 2010-09-16				Analyzed By: kg		
Prep Batch:	63137		$\operatorname{Sam}$	ole Preparat	ion: 2010-0	9-16	Prepare	ed By: kg	
			$\operatorname{RL}$						
Parameter	F	lag	Result		Units		Dilution	RI	
DRO		······	<50.0		mg/Kg		1	50.(	
						Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilu	tion A	Amount	Recovery	Limits	
	T 1005								
Sample: 244	<b>4845 - AH-4</b> Midland	102 0-1	mg/Kg Analytica	1 I Method:	S 8015 D	100	102 Prep Met	70 - 130 hod: S 503	
Sample: 244 Laboratory: Analysis: QC Batch:	<b>4845 - AH-4</b> Midland TPH GRO 73737		Analytica Date Ana	l Method: lyzed:	2010-09-21	100	Prep Met Analyzed	hod: S 503; By: AG	
Sample: 244 Laboratory: Analysis: QC Batch:	<b>4845 - AH-4</b> Midland TPH GRO		Analytica Date Ana	l Method:		100	Prep Met	hod: S 503; By: AG	
Sample: 244 Laboratory: Analysis: QC Batch: Prep Batch:	<b>4845 - AH-4</b> Midland TPH GRO 73737 63249	0-1	Analytica Date Ana Sample Pr RL	l Method: lyzed:	2010-09-21 2010-09-21		Prep Met Analyzed Prepared	hod: S 5038 By: AG By: AG By: AG	
Sample: 244 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	<b>4845 - AH-4</b> Midland TPH GRO 73737 63249		Analytica Date Ana Sample Pr RL Result	l Method: lyzed:	2010-09-21 2010-09-21 Units		Prep Met Analyzed Prepared Dilution	hod: S 5033 By: AG By: AG RI	
Sample: 244 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	<b>4845 - AH-4</b> Midland TPH GRO 73737 63249	0-1	Analytica Date Ana Sample Pr RL	l Method: lyzed:	2010-09-21 2010-09-21		Prep Met Analyzed Prepared	hod: S 5033 By: AG By: AG RI	
Sample: 244 Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO	<b>4845 - AH-4</b> Midland TPH GRO 73737 63249	0-1 lag	Analytical Date Ana Sample P RL Result <2.00	l Method: lyzed: reparation:	2010-09-21 2010-09-21 Units mg/Kg	Spike	Prep Met Analyzed Prepared Dilution 1 Percent	hod: S 503; By: AG By: AG RI 2.00 Recovery	
Sample: 244 Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate	<b>4845 - AH-4</b> Midland TPH GRO 73737 63249 F	0-1	Analytical Date Ana Sample P RL Result <2.00 Result	l Method: lyzed: reparation: Units	2010-09-21 2010-09-21 Units mg/Kg Dilution	Spike Amount	Prep Met Analyzed Prepared Dilution 1 Percent Recovery	hod: S 503; By: AG By: AG RI 2.00 Recovery Limits	
Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue	<b>4845 - AH-4</b> Midland TPH GRO 73737 63249 F	0-1 lag Flag	Analytical Date Ana Sample P RL Result <2.00	l Method: lyzed: reparation:	2010-09-21 2010-09-21 Units mg/Kg	Spike	Prep Met Analyzed Prepared Dilution 1 Percent	hod: S 503; By: AG By: AG RI 2.00 Recovery	

		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		478	mg/Kg	50	4.00

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Report Date 114-6400686	: September	27, 2010				10091631 'ederal #6	;	Page Nur Edd	nber: 12 y Count	
Method Bla	ank (1)	QC Batch: 73586								
QC Batch:	73586		Date Ana			0-09-16			zed By:	
Prep Batch:	03137		QC Prep	aration:	201	0-09-16		Prepa	ared By:	kg
Demonster		Di			DL		T.T	· .		n
Parameter		Flag	·····	Res		······································	Un		RI	
DRO				<1	4.5		mg/	Kg		-50
a	121	D	TT +4	т	<b>51</b>		Spike	Percent		over
Surrogate n-Tricosane	Flag	<u>Result</u> 95.5	Units mg/Kg	<u>_</u>	Dilutic 1	on	Amount 100	Recovery 96		mits - 130
			0/0							
Method Bl	ank (1)	QC Batch: 73737								
QC Batch:	73737		Date Ana	lyzed:	2010	)-09-21		Analyz	ed By:	AG
Prep Batch:			QC Prepa	•		)-09-21			red By:	AG
•			- 1						v	
		1.1			DL		**	••		<b></b>
Parameter		Flag		Res			Uni			R. 2
GRO	<u></u>		<u> </u>	<1	.65		mg/	ng		2
							Spike	Percent	Reco	
Surrogate		Flag	Result	Unit		Dilution		Recovery		nits
Trifluorotolu			1.80	mg/K		1	2.00	90	67.6	
4-Bromofluor	obenzene (4	-BF'B)	1.07	mg/K	g	1	2.00	54	52.4	- 13
Method Bla QC Batch: Prep Batch:	ank (1) 73738 63249	QC Batch: 73738	Date Ana QC Prepa			)-09-21 )-09-21			ed By: ed By:	
Parameter		Flag			MDL lesult		Un	its		RI
Benzene		<u>_</u>			.0150			/Kg		0.0
Toluene					00950			/Kg		0.0
Ethylbenzene	<b>;</b>				.0106		mg	/Kg		0.0
Xylene				<0.0	00930		mg	/Kg		0.0
<b>a</b>							Spike	Percent	Reco	
Surrogate	(1937-193)	Flag	Result	Unit		Dilution		Recovery		nits
	ene (TFT)		2.04	mg/K	g	1	2.00	102	66.6	- 12
Trifluorotolu 4-Bromofluoi			1.53	mg/K		1	2.00	76	55.4	

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Report Date: September 27, 2010 114-6400686		Work Order: 10091631 COG/Caddo Federal #6					Page Number: 13 of 2 Eddy County, NM			
Method Blank (1	) QC Batch: 73783									
QC Batch: 73783 Prep Batch: 63252		Date Analyzed: QC Preparation:	2010-09-2 2010-09-2					lyzed By bared By		
		М	DL							
Parameter	Flag	Res			t	Jnits			$\mathbf{R}$	
Chloride		<2	2.18		m	g/Kg			4	
Method Blank (1	) QC Batch: 73784									
QC Batch: 73784	l	Date Analyzed:	2010-09-2	23			Anai	lyzed By	: AF	
Prep Batch: 63253	<b>3</b>	QC Preparation:	2010-09-2	22			Prep	ared By	: AF	
Parameter	Flag	M Res	DL		·	Inits			R	
Chloride	Tiag		.18		-	g/Kg				
Method Blank (1 QC Batch: 73785	5	Date Analyzed:	2010-09-2					lyzed By		
QC Batch: 73785 Prep Batch: 63254 Parameter	ý -	QC Preparation: M Res	2010-09-2 DL sult			Inits		lyzed By ared By	: AF R	
QC Batch: 73785 Prep Batch: 63254 Parameter Chloride Laboratory Contr QC Batch: 73586	Flag rol Spike (LCS-1)	QC Preparation: M Res <2 Date Analyzed:	2010-09-2 DL sult .18 2010-09-3	16		Inits g/Kg	Prep	ared By	: AF <u>R</u> 4	
QC Batch: 73785 Prep Batch: 63254 Parameter Chloride Laboratory Contr	Flag rol Spike (LCS-1)	QC Preparation: M. Res <2 Date Analyzed: QC Preparation:	2010-09-2 DL sult .18 2010-09-3	16 16	m	g/Kg	Prep	ared By alyzed B pared B	: AF	
QC Batch: 73785 Prep Batch: 63254 Parameter Chloride Laboratory Contr QC Batch: 73586 Prep Batch: 63137	Flag rol Spike (LCS-1)	QC Preparation: M. Res <2 Date Analyzed: QC Preparation: S	2010-09-2 DL ault 18 2010-09-3 2010-09-3	22 16 16 Spike	Ma	g/Kg trix	Prep Ana Pre	alyzed B pared B	: AF R 4 y: kg y: kg Rec.	
QC Batch: 73785 Prep Batch: 63254 Parameter Chloride Laboratory Contr QC Batch: 73586	Flag rol Spike (LCS-1)	QC Preparation: M. Res <2 Date Analyzed: QC Preparation: S ult Units	2010-09-2 DL ault 18 2010-09-3 2010-09-3	16 16	m, Ma Re:	g/Kg	Prep	alyzed By pared By F L	: AF R 4 y: kg y: kg Rec. imit	
QC Batch: 73785 Prep Batch: 63254 Parameter Chloride Laboratory Contr QC Batch: 73586 Prep Batch: 63137 Param DRO	Flag rol Spike (LCS-1)	QC Preparation: M. Res <2 Date Analyzed: QC Preparation: S ult Units 0 mg/Kg	2010-09-2 DL sult .18 2010-09-3 2010-09-3 2010-09-3 Dil. 1	16 16 Spike Amount 250	Ma Re: <1	g/Kg trix sult 4.5	Prep Ana Pre Rec. 96	alyzed By pared By F L	: AF R 4 y: kg y: kg kec. imit	
QC Batch: 73785 Prep Batch: 63254 Parameter Chloride Laboratory Contr QC Batch: 73586 Prep Batch: 63137 Param DRO	Flag rol Spike (LCS-1)	QC Preparation: M. Res <2 Date Analyzed: QC Preparation: S ult Units 0 mg/Kg	2010-09-2 DL sult .18 2010-09-3 2010-09-3 2010-09-3 Dil. 1	16 16 Spike Amount 250	Ma Re: <1	g/Kg trix sult 4.5 e result	Prep Ana Pre Rec. 96	alyzed By pared By F L	: AF R 4 y: kg y: kg kec. imit - 133.	
QC Batch: 73785 Prep Batch: 63254 Parameter Chloride Laboratory Contr QC Batch: 73586 Prep Batch: 63137 Param DRO	Flag rol Spike (LCS-1)	QC Preparation: M. Res <2 Date Analyzed: QC Preparation: S ult Units 0 mg/Kg RPD is based on	2010-09-2 DL sult .18 2010-09-2 2010-09-2 Dil. 1 the spike an	16 16 Amount 250 nd spike c	Ma Re: <1	g/Kg trix sult 4.5 e result R: Lin	Prep Ana Pre Rec. 96	alyzed By pared By F L	: AR R 4 y: kg y: kg Rec.	

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Report Date: September 27, 201 114-6400686		Work Order: 10091631 COG/Caddo Federal #6							Page Number: 14 of 22 Eddy County, NM			
Surrogate	LCS Result	LCSD Result		Units	Dil.	Spike Amount		CS ec.	LCSD Rec.	)	Rec. Limit	
n-Tricosane	106	110	1	ng/Kg	1	100	1(	06	110	1	70 - 130	
Laboratory Contro QC Batch: 73737 Prep Batch: 63249	ol Spike (LC	2S-1)		Analyzeo reparatio						yzed By ared By		
Param		L( Res		Units	Dil.	Spike Amount		trix sult	Rec.		Rec. Limit	
GRO				mg/Kg		20.0		.65			$\frac{11111}{9-95.4}$	
							······			09.	J - JU.	
Percent recovery is ba	ased on the sp	oike result	. RPD i	s based	on the spike	and spike di	iplicate	result.				
		LCSD			Spike	Matrix		Re			RPL	
Param		Result	Unit				Rec.	Lin		RPD	Limi	
GRO		14.7	mg/K	g 1	20.0	<1.65	74	69.9 -	95.4	5	20	
Surrogate		pike result LC Resu 1.9	'S I ult F	s based CSD lesult 1.85	Units mg/Kg	Sp Dil. Ame	iplicate ike ount 00	result. LCS Rec. 97	LCSI Rec. 92		Rec. Limit .9 - 14	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738	Г) е (4-BFB)	LC Res 1.9 1.7	S I ult F 14 0 Date 1	CSD lesult	Units mg/Kg mg/Kg i: 2010-09	Sp Dil. Ame 1 2. 1 2.	ike ount 00	LCS Rec.	Rec. 92 82 Analy	61	Limit .9 - 14 .2 - 13 : AG	
Prep Batch: 63249	Г) е (4-BFB)	LC <u>Rest</u> 1.9 1.7 S-1)	S I ult F 44 0 Date A QC P	ACSD tesult 1.85 1.64 Analyzec reparatio	Units mg/Kg mg/Kg d: 2010-09 pn: 2010-09	Sp Dil. Amo 1 2. 1 2. -21 -21 Spike	ike ount 00 00 Mat	LCS Rec. 97 85	Rec. 92 82 Analy Prepa	61 65 yzed By ared By	Limit .9 - 14 .2 - 13 : AG : AG Rec.	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param	Г) е (4-BFB)	LC Res 1.9 1.7 S-1) LC Res	S I ult F 44 0 Date A QC P S ult	CSD tesult 1.85 1.64 Analyzed reparatio Units	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil.	Sp Dil. Amo 1 2. 1 2. -21 -21 Spike Amount	ike ount 00 00 Mat Res	LCS Rec. 97 85 trix sult	Rec. 92 82 Analy Prepa Rec.	61 65 yzed By ared By	Limit .9 - 14 .2 - 13 : AG : AG Rec. Limit	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param Benzene	Г) е (4-BFB)	LC Res 1.9 1.7 S-1) LC Res 2.0	S I ult F 44 0 Date A QC P S ult 5	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil. 1	Sp Dil. Amo 1 2. 1 2. -21 -21 Spike Amount 2.00	ike ount 00 00 Mat Res <0.0	LCS Rec. 97 85 trix sult	Rec. 92 82 Analy Prepa Rec. 102	61 65 yzed By ared By 81	Limit .9 - 14 .2 - 13 : AG : AG Rec. Limit 9 - 103	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param Benzene Toluene	Г) е (4-BFB)	LC Res 1.9 1.7 S-1) LC Res	S I ult F 44 0 Date A QC P S ult 5 4	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg mg/Kg	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil.	Sp Dil. Amo 1 2. 1 2. -21 -21 Spike Amount	ike bunt 00 00 Mat Res <0.0 <0.0	LCS Rec. 97 85 trix sult	Rec. 92 82 Analy Prepa Rec.	61 65 yzed By ared By 81 81	Limit .9 - 14 .2 - 13 : AG : AG Rec. Limit 9 - 100 9 - 10'	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param Benzene Toluene Ethylbenzene	Г) е (4-BFB)	LC Rest 1.9 1.7 S-1) LC Rest 2.0 2.0	S I ult F 44 0 Date A QC P S ult 5 4 7	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil. 1 1	Sp Dil. Amo 1 2. 1 2. -21 -21 Spike Amount 2.00 2.00	ike bunt 00 00 Mat Res <0.0 <0.0	LCS Rec. 97 85 trix sult 1150 0950 0106	Rec. 92 82 Analy Prepa Rec. 102 102	61 65 yzed By ared By 81 81 78	Limit 9 - 14 2 - 13 : AG : AG Rec. Limit 9 - 10 9 - 10 4 - 10	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param	Γ) e (4-BFB) ol Spike (LC	LC Ress 1.9 1.7 2S-1) LC Ress 2.0 2.0 2.0 6.2 Dike result.	S I ult F 44 0 Date A QC P S ult 5 4 7 1	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil. 1 1 1 1 1 1 0 the spike	Sp Dil. Amo 1 2. 1 2. -21 -21 -21 -21 -21 -21 -21 -21 -21 -21	ike ount 00 00 Mat Res <0.0 <0.0 <0.0 <0.0	LCS Rec. 97 85 trix sult 1150 0950 0106 0930 result.	Rec. 92 82 Analy Prepa Rec. 102 102 104 104	61 65 yzed By ared By 81 81 78	$\begin{array}{l} \text{Limit} \\ \hline 9 - 14 \\ \hline 9 - 14 \\ \hline 2 - 13 \\ \hline \end{array}$ $:  AG \\ \vdots  AG \\ \hline \\ \text{Rec.} \\ \hline \\ \text{Limit} \\ \hline 9 - 100 \\ \hline 9 - 100 \\ \hline 1 - 100 \\ \hline \end{array}$	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is ba	Γ) e (4-BFB) ol Spike (LC	LC Ress 1.9 1.7 (S-1) ES-1) LC Ress 2.0 2.0 2.0 6.2 Dike result. LCSD	S I ult F 44 0 QC P S ult 5 4 7 1 RPD is	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg s based of	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil. 1 1 1 1 1 0 the spike Spike	Sp           Dil.         Amo           1         2.           1         2.           -21         -21           -21         -21           -21         -21           -20         2.00           2.00         2.00           6.00         and spike du           Matrix	ike ount 00 00 Mat Res <0.0 <0.0 <0.0 uplicate	LCS Rec. 97 85 trix sult 0150 0950 0106 0930 result. Re	Rec. 92 82 Analy Prepa Rec. 102 102 104 104 204	61 65 yzed By ared By 81 81 78 79	Limit 9 - 14 2 - 13 : AG : AG Rec. Limit 9 - 10 9 - 10 1 - 10 RPD	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is ba Param	Γ) e (4-BFB) ol Spike (LC	LC Ress 1.9 1.7 S-1) LC Ress 2.0 2.0 6.2 Dike result. LCSD Result	S I ult F 44 0 Date A QC P S ult 5 4 7 1 . RPD is Units	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg s based o Dil.	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil. 1 1 1 1 1 1 0 the spike Spike Amount	Sp           Dil.         Amo           1         2.           1         2.           -21         -21           -21         -21           -21         -21           -20         2.00           2.00         2.00           6.00         and spike du           Matrix         Result	ike ount 00 00 Mat Res <0.0 <0.0 <0.0 uplicate Rec.	LCS Rec. 97 85 trix sult 0150 0950 0106 0930 result. Ra Lin	Rec. 92 82 Analy Prepa Rec. 102 102 104 104 ec. nit	61 65 yzed By ared By 81 81 81 79 RPD	Limit 9 - 14 2 - 13 : AG : AG Rec. Limit 9 - 100 9 - 100 1 - 100 RPD Limi	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is ba Param Benzene	Γ) e (4-BFB) ol Spike (LC	LC Rest 1.9 1.7 S-1) LC Rest 2.0 2.0 2.0 6.2 Dike result. LCSD Result 2.07	S I ult F 44 0 Date A QC P S ult 5 4 7 1 . RPD is mg/Kg	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg s based o Dil. g 1	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil. 1 1 1 1 1 1 0 the spike Amount 2.00	Sp           Dil.         Amo           1         2.           1         2.           -21         -21           -21         -21           -21         -21           -21         -21           -200         2.00           2.00         2.00           6.00         and spike du           Matrix         Result           <0.0150	ike punt 00 00 Mat Res <0.0 <0.0 <0.0 <0.0 <0.0 uplicate Rec. 104	LCS Rec. 97 85 trix sult 0150 0950 0106 0930 result. Ra Lin 81.9	Rec. 92 82 Analy Prepa Rec. 102 102 104 104 104 ec. nit - 108	61 65 yzed By ared By 81 81 81 78 79 RPD 1	Limit .9 - 14: .2 - 13: .2 - 13: .2 - 13: .2 - 13: .2 - 14: .2 - 13: .2 - 14: .2 - 13: .2 - 14: .2 - 13: .2 - 14: .2 - 13: .2 - 13: .2 - 14: .2 - 13: .2 - 14: .2 - 13: .2 - 14: .2 - 13: .2 - 14: .2 - 13: .2 - 13: .2 - 14: .2 - 14: .2 - 13: .2 - 10: .4 - 10: .1 - 10: .2 - 10:	
Surrogate Trifluorotoluene (TF' 4-Bromofluorobenzen Laboratory Contro QC Batch: 73738 Prep Batch: 63249 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is ba Param	Γ) e (4-BFB) ol Spike (LC	LC Ress 1.9 1.7 S-1) LC Ress 2.0 2.0 6.2 Dike result. LCSD Result	S I ult F 44 0 Date A QC P S ult 5 4 7 1 . RPD is Units	CSD tesult 1.85 1.64 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg s based o Dil. g 1 g 1	Units mg/Kg mg/Kg d: 2010-09 on: 2010-09 Dil. 1 1 1 1 1 1 0 the spike Spike Amount	Sp           Dil.         Amo           1         2.           1         2.           -21         -21           -21         -21           -21         -21           -20         2.00           2.00         2.00           6.00         and spike du           Matrix         Result	ike ount 00 00 Mat Res <0.0 <0.0 <0.0 uplicate Rec.	LCS Rec. 97 85 sult 0150 0950 0106 0930 result. Re Lin 81.9 81.9	Rec. 92 82 Analy Prepa Rec. 102 102 104 104 ec. nit	61 65 yzed By ared By 81 81 81 79 RPD	Limit 9 - 14 2 - 13 : AG : AG Rec. Limit 9 - 100 9 - 100 1 - 100 RPD Limi	

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Report Date: September 27, 2010 114-6400686				ler: 10091 do Federal					Number ddy Co	ounty, N
	LCS	LCS	ח		Spil	ke	LCS	LCS	sD.	Rec.
Surrogate	Result			nits D			Rec.	Re		Limit
Trifluorotoluene (TFT)	1.99	2.09		$\frac{100}{\text{Kg}}$			100	$\frac{10}{10}$		70.2 - 11
4-Bromofluorobenzene (4-BFB)	2.30	2.35			2.0		115	11		<u>69.8 - 1</u>
Laboratory Control Spike (LC	S-1)									
QC Batch: 73783		Date Ana	vzed:	2010-09-2	3			Ans	alyzed I	By: AI
Prep Batch: 63252		QC Prepa		2010-09-2					pared I	
	LCS	8			Spike	М	atrix			Rec.
Param	Resu		nits	Dil.	Amount	R	esult	Re	ec.	Limit
Chloride	97.3	3 m	g/Kg _	. 1	100	<	2.18	9	7	85 - 1
Percent recovery is based on the sp	ike result. I	RPD is ba	sed on th	ne spike an	d spike du	plicate	result.			
	LCSD			Spike	Matrix		R	ec.		RP
Param	Result	Units	Dil.	Amount	Result	Rec.	Liı	mit	RPD	Lim
C(1) 1 1	102	mg/Kg	1	100	<2.18	102	85 -	115	5	20
Percent recovery is based on the sp Laboratory Control Spike (LC:	vike result. 1 S-1)		sed on th	ne spike an 2010-09-2:	d spike du		result.	Ana	lyzed E	
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784	vike result. 1 S-1)	RPD is ba	sed on th	-	d spike du		result.		lyzed E pared B	3y: AI
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784	vike result. 1 S-1)	RPD is ba Date Anal QC Prepa	sed on th	2010-09-23	d spike du	plicate	result.		-	3y: AI 3y: AI
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253	ike result.   S-1)	RPD is ba Date Anal QC Prepa S It U	sed on th lyzed: ration: fnits	2010-09-23	d spike duj 3 2	plicate Ma			pared B	By: AI By: AI Rec.
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param	ike result. I S-1) LCS	RPD is ba Date Anal QC Prepa S It U	sed on th lyzed:	2010-09-23 2010-09-23	d spike du 3 2 Spike	plicate Ma Re	atrix	Prej	pared B	By: AH By: AH Rec. Limit
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride	vike result. 1 S-1) LCS Resu 97.5	RPD is ba Date Anal QC Prepa S It U 3 m	sed on th lyzed: ration: nits g/Kg	2010-09-2: 2010-09-2: Dil. 1	d spike duj 3 2 Spike Amount 100	plicate Ma Re	atrix esult 2.18	Prej Re	pared B	By: AH By: AH Rec. Limit
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp	ike result. 1 S-1) LCS Resu 97.3 ike result. 1 LCSD	RPD is ba	sed on th lyzed: ration: <u>g/Kg</u> sed on th	2010-09-23 2010-09-23 	d spike duj Spike Amount 100 d spike duj Matrix	Ma Re 	atrix esult 2.18 result. Re	Prej Re 9	pared B	By: AH By: AH Rec. Limit 85 - 11 RP
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param	ike result. 1 S-1) LCS Resu 97.3 ike result. 1 LCSD Result	RPD is ba Date Anal QC Prepa S It U RPD is ba Units	sed on th lyzed: ration: g/Kg sed on th Dil.	2010-09-22 2010-09-22 Dil. 1 ne spike an Spike Amount	d spike duj Spike Amount 100 d spike duj Matrix Result	Ma Re plicate 1 Rec.	atrix esult 2.18 result. Re Lir	Prep Re 9 ec. nit	pared B ec. 7 RPD	By: AI By: AI Rec. Limit 85 - 1 RP Lim
Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param Chloride	ike result. 1 S-1) LCS Resu 97.5 ike result. 1 LCSD Result 102	RPD is ba Date Anal QC Prepa S It U RPD is ba Units mg/Kg	sed on th lyzed: ration: g/Kg sed on th Dil. 1	2010-09-22 2010-09-22 Dil. 1 ne spike an Spike Amount 100	Spike dup Spike Amount 100 d spike dup Matrix Result <2.18	Ma Re plicate 1 Rec. 102	atrix esult 2.18 result. Re Lir 85 -	Prej Re 9	pared B	By: Al By: Al Rec. Limi 85 - 1 RP Lim
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param	ike result. 1 S-1) LCS Resu 97.5 ike result. 1 LCSD Result 102	RPD is ba Date Anal QC Prepa S It U RPD is ba Units mg/Kg	sed on th lyzed: ration: g/Kg sed on th Dil. 1	2010-09-22 2010-09-22 Dil. 1 ne spike an Spike Amount 100	Spike dup Spike Amount 100 d spike dup Matrix Result <2.18	Ma Re plicate 1 Rec. 102	atrix esult 2.18 result. Re Lir 85 -	Prep Re 9 ec. nit	pared B ec. 7 RPD	By: AI By: AI Rec. Limit 85 - 1 RP Lim
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp	ike result. 1 S-1) LCS Resu 97.2 ike result. 1 LCSD Result 102 ike result. 1	RPD is ba Date Anal QC Prepa S It U RPD is ba Units mg/Kg	sed on th lyzed: ration: g/Kg sed on th Dil. 1	2010-09-22 2010-09-22 Dil. 1 ne spike an Spike Amount 100	Spike dup Spike Amount 100 d spike dup Matrix Result <2.18	Ma Re plicate 1 Rec. 102	atrix esult 2.18 result. Re Lir 85 -	Prep Re 9 ec. nit	pared B ec. 7 RPD	By: AI By: AI Rec. Limit 85 - 1 RP Lim
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC:	ike result. I S-1) LCS Resu 97.2 ike result. I LCSD Result 102 ike result. I S-1)	RPD is ba Date Anal QC Prepa S It U RPD is ba Units mg/Kg	sed on th lyzed: ration: g/Kg sed on th Dil. 1 sed on th	2010-09-22 2010-09-22 Dil. 1 ne spike an Spike Amount 100	d spike duj Spike Amount 100 d spike duj Matrix Result <2.18 d spike duj	Ma Re plicate 1 Rec. 102	atrix esult 2.18 result. Re Lir 85 -	Prep Re 9 ec. nit 115	pared B ec. 7 RPD	By: AF By: AF Rec. Limit 85 - 11 RP Lim 20
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73785	ike result. I S-1) LCS Resu 97.2 ike result. I LCSD Result 102 ike result. I S-1)	RPD is ba Date Anal QC Prepa S It U RPD is ba Units <u>mg/Kg</u> RPD is ba	sed on th lyzed: ration: fnits g/Kg sed on th Dil. 1 sed on th	2010-09-2: 2010-09-2: Dil. 1 1e spike an Spike Amount 100 1e spike an	d spike du Spike Amount 100 d spike du Matrix Result <2.18 d spike du	Ma Re plicate 1 Rec. 102	atrix esult 2.18 result. Re Lir 85 -	Prep Re 9 ec. nit 115 Ana	RPD 5	By: AF By: AF Rec. Limit 85 - 11 RPI Lim 20
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73785	ike result. 1 S-1) LCS Resu 97.2 ike result. 1 LCSD Result 102 ike result. 1 S-1)	RPD is ba Date Anal QC Prepa S It U RPD is ba Units mg/Kg RPD is ba Date Anal QC Prepa	sed on th lyzed: ration: fnits g/Kg sed on th Dil. 1 sed on th	2010-09-2: 2010-09-2: Dil. 1 ne spike an Spike Amount 100 ne spike an 2010-09-2:	Spike Amount 100 d spike dup Matrix Result <2.18 d spike dup	Mi Re olicate 1 Rec. 102 Dlicate 1	atrix esult 2.18 result. Re Lir 85 -	Prep Re 9 ec. nit 115 Ana	pared B ec. 7 <u>RPD</u> 5	By: AF By: AF Rec. Limit 85 - 11 RPI Lim 20
Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC: QC Batch: 73785	ike result. I S-1) LCS Resu 97.2 ike result. I LCSD Result 102 ike result. I S-1)	RPD is ba Date Anal QC Prepa Contemposities RPD is ba Units mg/Kg RPD is ba Date Anal QC Prepa	sed on th lyzed: ration: fnits g/Kg sed on th Dil. 1 sed on th	2010-09-2: 2010-09-2: Dil. 1 ne spike an Spike Amount 100 ne spike an 2010-09-2:	d spike du Spike Amount 100 d spike du Matrix Result <2.18 d spike du	Mi Re olicate 1 Rec. 102 Dilicate 1	atrix esult 2.18 result. Re Lir 85 - result.	Prep Re 9 ec. nit 115 Ana	RPD 5 lyzed B pared B	By: AF By: AF Rec. Limit 85 - 11 RPI Limi 20 By: AF y: AF

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Percent recovery is bas	ed on the s	oike result.	RPD is b	ased on	the spike a	and spike d	uplicate 1	result.			
Param		LCSD Result	Units	Dil.	Spike Amount		Rec.	Rec. Limi	t I	RPD	RPD Limit
Chloride		103	mg/Kg	1	100	<2.18	103	85 - 1	15	6	20
Percent recovery is bas	ed on the sp	oike result.	RPD is b	ased on	the spike a	and spike d	uplicate 1	result.			
Matrix Spike (MS-1	) Spiked	Sample: 2	44915								
QC Batch: 73586			Date An	alyzed:	2010-09-	-16			Analy	yzed B	y: kg
Prep Batch: 63137			QC Prep	paration	1: 2010-09	-16			Prepa	ared B	y: kg
		MS				Spike	Matri	x		1	Rec.
Param		Resu		nits	Dil.	Amount	Resul	lt R	.ec.		imit
DRO		202	e ma	g/Kg	1	250	<14.	5 8	31	35.2	- 167.1
Percent recovery is bas	ed on the sp	oike result.	RPD is b	ased on	the spike a	and spike d	uplicate r	esult.			
		MSD			Spike	Matrix		Rec.			RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	1	RPD	Limit
			Omeo	1211.	1 mouno	recourt	1000.	Laurit			
DRO		209	mg/Kg	1	250	<14.5	84 3	35.2 - 167	7.1	3	20
DRO Percent recovery is bas	ed on the sp		mg/Kg RPD is b		······································	······			7.1	3	20
		oike result.			······································	and spike d	uplicate r	esult.		3	
Percent recovery is bas	MS	oike result. MSD	RPD is b	ased on	the spike a	and spike d Spike	uplicate r M	result. S	MSD		Rec.
Percent recovery is bas Surrogate		oike result.	RPD is b Ur		······································	and spike d	uplicate r M	esult. S			
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737	MS Result 95.1	oike result. MSD Result	RPD is b Ur mg	ased on hits /Kg hlyzed:	the spike a Dil. 1 2010-09-5	and spike d Spike Amount 100 21	uplicate 1 M Re	result. S c. 5	MSD Rec.	7 zed By	Rec. Limit 70 - 130 : AG
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249	MS Result 95.1	oike result. MSD Result 95.2 Sample: 24	RPD is b Ur mg 14875 Date Ana QC Prep	ased on hits /Kg alyzed: aration:	2010-09-5	and spike d Spike Amount 100 21 21 21 Spike	uplicate r M Re 99	rix	MSD Rec. 95 Analyz Prepar	7 zed By red By	Rec. Limit 0 - 130 : AG : AG Rec.
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param	MS Result 95.1	pike result. MSD Result 95.2 Sample: 24 MS Resu	RPD is b Ur mg 14875 Date Ana QC Prep s lt U	ased on hits /Kg alyzed: aration: fnits	the spike a Dil. 1 2010-09-3 2010-09-3 Dil.	and spike d Spike Amount 100 21 21 21 Spike Amount	uplicate r M Re 99 91 80 91 91 91 91 91 91 91 91 91 91 91 91 91	rix rix	MSD Rec. 95 Analyz Prepar Rec.	7 zed By red By	Rec. Limit 0 - 130 : AG : AG Rec. Limit
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param GRO	MS Result 95.1 ) Spiked	pike result. MSD Result 95.2 Sample: 24 MS Resu 16.	RPD is b Ur mg 44875 Date Ana QC Prep S ult U 3 mg	ased on iits /Kg alyzed: aration: fnits g/Kg	the spike a Dil. 1 2010-09-3 2010-09-3 Dil. 1	and spike d Spike Amount 100 21 21 21 21 21 Spike Amount 20.0	uplicate r M Re 99 99 99 99 99 99 99 90 90 90 90 90 90	rix Alt	MSD Rec. 95 Analyz Prepar	7 zed By red By	Rec. Limit 0 - 130 : AG : AG Rec. Limit
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param GRO	MS Result 95.1 ) Spiked	pike result. MSD Result 95.2 Sample: 24 MS Resu 16. ike result.	RPD is b Ur mg 44875 Date Ana QC Prep S ult U 3 mg	ased on iits /Kg alyzed: aration: fnits g/Kg	the spike a Dil. 1 2010-09-1 2010-09-1 Dil. 1 the spike a	and spike d Spike Amount 100 21 21 21 21 21 21 21 21 21 21 21 21 21	uplicate r M Re 99 99 99 99 99 99 99 90 90 90 90 90 90	rix Ilt 65 result.	MSD Rec. 95 Analyz Prepar Rec.	7 zed By red By	Rec. Limit '0 - 130 : AG : AG : AG Rec. Limit 8 - 114
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param GRO Percent recovery is base	MS Result 95.1 ) Spiked	pike result. MSD Result 95.2 Sample: 24 MS Resu 16.1 ike result. MSD	RPD is b Ur mg 44875 Date Ana QC Prep dt U 3 mi RPD is ba	ased on hits /Kg alyzed: aration: aration: <u>fnits</u> <u>g/Kg</u> ased on	the spike a Dil. 1 2010-09-3 2010-09-3 Dil. 1 the spike a Spike	and spike d Spike Amount 100 21 21 21 21 21 21 21 21 21 21 21 21 21	Mat Resu Mat Resu uplicate r	rix alt 65 Rec.	MSD Rec. 95 Analyz Prepar Rec. 82	zed By red By 1 61.	Rec. <u>Limit</u> '0 - 130 : AG : AG : AG Rec. <u>Limit</u> 8 - 114
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param GRO Percent recovery is base Param	MS Result 95.1 ) Spiked	oike result. MSD Result 95.2 Sample: 24 Sample: 24 MS Result. MSD Result	RPD is b Ur mg 44875 Date Ana QC Prep dt U B ma RPD is ba Units	ased on hits /Kg alyzed: aration: g/Kg ased on Dil.	the spike a Dil. 1 2010-09-3 2010-09-3 Dil. 1 the spike a Spike Amount	and spike d Spike Amount 100 21 21 21 21 21 21 21 21 21 21 21 21 21	Mat Results Mat Results Mat Results Mat Results Mat Results Mat	rix 11t 65 Rec. Limit	MSD Rec. 95 Analyz Prepar Rec. 82 F	zed By red By 1 61. RPD	Rec. Limit '0 - 130 : AG : AG : AG Rec. Limit RPD Limit
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param GRO Percent recovery is base Param GRO	MS Result 95.1 ) Spiked ed on the sp	oike result. MSD Result 95.2 Sample: 24 MS Result ike result. MSD Result 16.8	RPD is b Ur mg 14875 Date Ana QC Prep dt U RPD is ba Units mg/Kg	ased on hits /Kg hlyzed: aration: g/Kg ased on Dil. 1	the spike a Dil. 1 2010-09-3 2010-09-3 Dil. 1 the spike a Spike Amount 20.0	And spike d Spike Amount 100 21 21 21 21 21 21 21 21 21 21 21 21 21	Mat Reso Applicate r Reso Applicate r Rec. 84	rix sc. 5 5 rix alt 65 result. Rec. Limit 61.8 - 1	MSD Rec. 95 Analyz Prepar Rec. 82 F	zed By red By 1 61.	Rec. <u>Limit</u> '0 - 130 : AG : AG : AG Rec. <u>Limit</u> 8 - 114 RPD
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param GRO Percent recovery is base Param GRO	MS Result 95.1 ) Spiked ed on the sp	oike result. MSD Result 95.2 Sample: 24 MS Result 16.3 ike result. MSD Result 16.8 ike result.	RPD is b Ur mg 14875 Date Ana QC Prep dt U RPD is ba Units mg/Kg RPD is ba	ased on hits /Kg hlyzed: aration: g/Kg ased on Dil. 1	the spike a Dil. 1 2010-09-3 2010-09-3 Dil. 1 the spike a Spike Amount 20.0	And spike d Spike Amount 100 21 21 21 21 21 21 21 21 21 21 21 21 21	Mat Reso Applicate r Reso Applicate r Rec. 84	rix sc. 5 5 rix alt 65 result. Rec. Limit 61.8 - 1	MSD Rec. 95 Analyz Prepar Rec. 82 F	zed By red By 1 61. RPD	Rec. Limit '0 - 130 : AG : AG : AG Rec. Limit RPD Limit
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737 Prep Batch: 63249 Param GRO Percent recovery is base Param GRO Percent recovery is base	MS Result 95.1 ) Spiked ed on the sp	pike result. MSD Result 95.2 Sample: 24 Sample: 24 MS Result 16.3 ike result. MSD Result 16.8 ike result. MSD	RPD is b Ur mg 14875 Date Ana QC Prep du Units mg/Kg RPD is ba RPD is ba	ased on iits /Kg alyzed: aration: (nits g/Kg ased on Dil. 1 ased on SD	the spike a Dil. 1 2010-09- 2010-09- 2010-09- Dil. 1 the spike a Spike Amount 20.0 the spike a	and spike d Spike Amount 100 21 21 21 21 21 21 21 21 21 21 21 21 21	Mat Reso Applicate r Reso Applicate r Rec. 84	rix s c. 5 5 c. 5 5 6 6 6 6 6 8 c. 5 6 6 6 6 6 6 6 6 6 6 6 6 6	MSD Rec. 95 Analyz Prepar Rec. 82 F 14 MSE	7 zed By red By 1 61. 3	Rec. <u>Limit</u> '0 - 130 : AG : AG
Percent recovery is bas Surrogate n-Tricosane Matrix Spike (MS-1 QC Batch: 73737	MS Result 95.1 ) Spiked ed on the sp	oike result. MSD Result 95.2 Sample: 24 MS Result 16.3 ike result. MSD Result 16.8 ike result.	RPD is b Ur mg 44875 Date Ana QC Prep dt U B RPD is ba Mg RPD is ba S Mg t Res	ased on iits /Kg alyzed: aration: aration: <u>fnits</u> <u>g/Kg</u> ased on <u>Dil.</u> 1 ased on SD ult	the spike a Dil. 1 2010-09-3 2010-09-3 Dil. 1 the spike a Spike Amount 20.0	and spike d Spike Amount 100 21 21 21 21 21 21 21 21 21 21 21 21 21	Mat Reso Altress Mat Reso <1.0 uplicate r Rec. 84 uplicate r	rix sc. 5 5 rix ult 65 result. Rec. Limit 61.8 - 1 esult.	MSD Rec. 95 Analyz Prepar Rec. 82 F 14	zed By red By fed By 61. RPD 3	Rec. Limit 0 - 130 : AG : AG : AG Rec. Limit 8 - 114 RPD Limit 20

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Report Date: September 27 114-6400686	', 2010				Corder: 100 Caddo Fede		_				umber: dy Cour	
matrix spikes continued		J	1S	MSD			Sn	ike	MS	MS	5D	Rec.
Surrogate			sult	Result	Units	Dil.	-	ount	Rec.	Re		Limit
4-Bromofluorobenzene (4-B)	FB)		03	1.87	mg/Kg	1		2	102	94		$\frac{1}{0} - 162$
(					0/0							
Matrix Spike (MS-1)	Spiked	Sample:	24482'	7								
QC Batch: 73738			Dat	e Analyzed	l: 2010-0	9-21				Analy	yzed By	: AG
Prep Batch: 63249				Preparatio							ared By:	
		Л	ø			<b>5</b> -11		Ма	• <b>!</b>			Dec
Param		M Res		Units	Dil.	Spik Amou		Ma Res		Rec.		Rec. .imit
Benzene				mg/Kg	<u> </u>	2.0			)150	<u>102</u>		$\frac{5}{5-11}$
Toluene		2.0		mg/Kg	1	2.00			0950	102		3 - 11 4 - 11
Ethylbenzene		2.2		mg/Kg	1	2.00			)106	111		9 - 11
Xylene		6.6		mg/Kg	1	6.00		<0.0		110		- 114
Percent recovery is based or	the s	pike result	. RPI		on the spike	and sp	ike dup	licate	result.			
							-					
_		MSD			Spike		trix	_	Re			RPI
Param	<u></u>	Result	Un		Amount	Res		Rec.	Lin		RPD	Limi
Benzene	3	2.28	mg/		2.00		)150	114	80.5 -		11	20
Toluene	-1 =	2.32	mg/		2.00		0950	116	82.4 -		10	20
Ethylbenzene	5 6	2.49	mg/		2.00	<0.0		124	83.9 -		12	20
Xylene Percent recovery is based or		7.39 pike result	mg/		6.00 on the spike	<0.0 and sp		123 licate	84 -	114	11	20
rereating receivery is based of			IS	MSD		and op	Spik		MS	MSD		Rec.
							-		Rec.	Rec.		imit
Surrogate			sult		Units	Dil.	Amou	1116	ILCU.			
Surrogate Trifluorotoluene (TFT)		Res	ult 04	Result	Units mg/Kg	1	<u>Αmo</u> ι 2				41.	
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-Bl	7B)	Res 7 2.1	sult 04 43		Units mg/Kg mg/Kg	Dil. 1 1	2 2	1110	102 122	122 140		3 - 11
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-Bl		Res 7 2.1	04 43 244834 Dat	Result 2.44 2.80	mg/Kg mg/Kg 1: 2010-09	1 1 )-23	2		102	122 140 Analy		3 - 11 5 - 12 AR
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-Bl Matrix Spike (MS-1) QC Batch: 73783		Re: 7 2. 8 2. Sample: 2	04 43 244834 Dat QC	Result 2.44 2.80 4 c Analyzed	mg/Kg mg/Kg 1: 2010-09	1 1 )-23 )-22	22		102	122 140 Analy	35. rzed By: rred By:	3 - 11 5 - 12 AR AR
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BI <b>Matrix Spike (MS-1)</b> QC Batch: 73783 Prep Batch: 63252		Res 7 2. 8 2. Sample: 2	04 43 244834 Dat QC 1S	Result 2.44 2.80 4 e Analyzed Preparatio	mg/Kg mg/Kg l: 2010-09 m: 2010-09	1 1 )-23 )-22	2	M	102 122	122 140 Analy Prepa	35. rzed By: ared By:	3 - 11 5 - 12 AR AR Rec.
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-Bl Matrix Spike (MS-1) QC Batch: 73783		Res 7 2. 8 2. Sample: 1	04 43 244834 Dat QC	Result 2.44 2.80 4 c Analyzed	mg/Kg mg/Kg l: 2010-09 m: 2010-09 Dil.	1 1 )-23 )-22 Sj Am	22	M	102 122	122 140 Analy	35. rzed By: rred By:	3 - 11 5 - 129 AR AR

<sup>5</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
 <sup>6</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
 <sup>6</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
 <sup>7</sup>High surrogate recovery due to peak interference.
 <sup>8</sup>High surrogate recovery due to peak interference.

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Param Chloride Percent recovery is b Matrix Spike (MS QC Batch: 73784 Prep Batch: 63253 Param Chloride	M Res	Units mg/Kg . RPD is b	Dil. 100 ased on alyzed:	Spike Amount 10000	Matrix Result <218 d spike du	Rec.	Rec. Limit 85 - 115 csult. An	nalyzed B	•
Chloride Percent recovery is b Matrix Spike (MS QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is b	Result 10300 based on the spike result 5-1) Spiked Sample: 2 M Res	mg/Kg . RPD is b 244844 Date Ana QC Prep	100 pased on alyzed:	Amount 10000 the spike and 2010-09-23	Result <218 d spike duj	103	Limit 85 - 115 csult. Aı	2 nalyzed B	Limi 20 y: AR
Chloride Percent recovery is b Matrix Spike (MS QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is b	Result 10300 based on the spike result 5-1) Spiked Sample: 2 M Res	mg/Kg . RPD is b 244844 Date Ana QC Prep	100 pased on alyzed:	Amount 10000 the spike and 2010-09-23	Result <218 d spike duj	103	Limit 85 - 115 csult. Aı	2 nalyzed B	Lim 20 y: AF
Percent recovery is h Matrix Spike (MS QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is b	based on the spike result 5-1) Spiked Sample: 2 M Res	. RPD is b 244844 Date Ana QC Prep	ased on a	the spike and 2010-09-23	d spike duj		csult. Aı	nalyzed B	y: AF
Matrix Spike (MS QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is b	5-1) Spiked Sample: 2 M Res	244844 Date Ana QC Prep	alyzed:	2010-09-23		plicate r	Aı	•	•
QC Batch: 73784 Prep Batch: 63253 Param Chloride Percent recovery is b	M Res	Date Ana QC Prep						•	•
Prep Batch: 63253 Param Chloride Percent recovery is b	M	QC Prep						•	•
Prep Batch: 63253 Param Chloride Percent recovery is b	M	QC Prep		2010-09-22	<b>)</b>			•	•
Chloride Percent recovery is b	Res	1S					P1	epared B	y: AF
Chloride Percent recovery is b	Res	1S							
Chloride Percent recovery is b	Res	***			Spike	Ma	trix		Rec.
Chloride Percent recovery is b		sult. I	Units	Dil.	Amount	Res		Rec.	Limit
Percent recovery is b	90		ng/Kg	100	10000				85 - 11
Param	based on the spike result.	. RPD is b	ased on t	the spike and	d spike duj	olicate re	esult.		
Param	MSD			Spike	Matrix		Rec.		RPI
	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Lim
Chloride	10000	mg/Kg	100	10000	<218	100	85 - 115	4	20
Matrix Spike (MS	<ul><li>based on the spike result.</li><li>5-1) Spiked Sample: 2</li></ul>		ased on (	the spike and	a spike auf	Jucate 1	28416.		
	,		-1	9010 00 99			Α	11 D	4.17
QC Batch: 73785 Prep Batch: 63254		Date Ana QC Prep		2010-09-23 2010-09-22				alyzed By epared By	
1 Tep Datch. 03234		QC 11ep	aration.	2010-03-22			11	epareu Dj	/. Al
	Μ				Spike	Mat			Rec.
Param	Res		Units	Dil.	Amount	Res		lec.	Limit
Chloride			ıg/Kg	100	10000			101	85 - 11
Percent recovery is 1	based on the spike result.	. RPD is b	ased on t	the spike and	d spike dup	olicate re	esult.		
	MSD			Spike	Matrix		Rec.		RPI
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limi
Chloride	11100	mg/Kg	100	10000	433	107	85 - 115	6	20
	based on the spike result.			the spike and					
	saboa on one spine robare.			uno opinio uni	a opino dar		Joann		
Standard (COV 1	)								
Standard (CCV-1	.)								

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Report Da 114-640068	te: September 36	r 27, 2010		Work Order: 10 COG/Caddo Fe			umber: 19 of 2 dy County, NM
<b>D</b>	51	<b>TT T</b>	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param DRO	Flag	Units mg/Kg	<u>Conc.</u> 250	<u>Conc.</u> 214	Recovery 86	Limits 80 - 120	Analyzed 2010-09-16
		ng	200	214	00	80 - 120	2010-09-10
Standard	(CCV-2)						
QC Batch:	73586		Date An	alyzed: 2010-0	)9-16	Ana	alyzed By: kg
			$\mathbf{CCVs}$	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	253	101	80 - 120	2010-09-1
Standard	(CCV-3)						
QC Batch:	73586		Date An	alyzed: 2010-(	)9-16	Ana	alyzed By: kg
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	245	98	80 - 120	2010-09-1
Standard	(CCV-4)						
QC Batch:	73586		Date An	alyzed: 2010-0	9-16	Ana	dyzed By: kg
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	240	96	80 - 120	2010-09-1
Standard	(CCV-1)						
QC Batch:	73737		Date Ana	lyzed: 2010-0	9-21	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.968	97	80 - 120	2010-09-2
Standard	(CCV-2)						

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Report Date 114-6400686				ork Order: 100 OG/Caddo Fede			umber: 20 of 2 dy County, NI
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO	1 145	mg/Kg	1.00	0.887	89	80 - 120	2010-09-2
Standard (	CCV-3)						
QC Batch:	,		Date Analy	vzed: 2010-09-	-21	Anal	yzed By: AG
•			CCVs	CCVs	CCVs	Percent	
_			True	Found	Percent	Recovery	Date
Param GRO	Flag	Units mg/Kg	Conc. 1.00	Conc. 0.882	Recovery 88	Limits 80 - 120	Analyzed 2010-09-2
Standard (	CCV-2)						
QC Batch:	73738		Date Analy	vzed: 2010-09-	-21	Anal	yzed By: AG
			CCVs	CCVs	$\mathbf{CCVs}$	Percent	
_	_/		True	Found	Percent	Recovery	Date
Param	Flag		Conc.	Conc.	Recovery	Limits	Analyzed
Benzene Toluene		mg/Kg	0.100 0.100	$\begin{array}{c} 0.109 \\ 0.108 \end{array}$	109 108	80 - 120 80 - 120	2010-09-2 2010-09-2
Tofuene Ethylbenzen	0	mg/Kg mg/Kg	0.100	0.108	108	80 - 120	2010-09-2
Xylene		mg/Kg	0.300	0.327	109	80 - 120	2010-09-2
Standard ( QC Batch:	,		Date Analy	zed: 2010-09-	-21	Anal	vzed By: AG
			$\mathbf{CCVs}$	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag		Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.105	105	80 - 120	2010-09-2
	2						2010-09-2
•	e .						2010-09-2 2010-09-2
Toluene Ethylbenzene Xylene Standard (1	ICV-1)	mg/Kg mg/Kg mg/Kg	0.100 0.100 0.300	0.104 0.104 0.314	104 104 105	80 - 120 80 - 120 80 - 120	2010- 2010-
QC Batch:	73783		Date Analy	zed: 2010-09-	-23	Anal	vzed By: AI

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114-6400686	September .	27, 2010		Work Order: 10 OG/Caddo Feo			umber: 21 of 2 Idy County, NM
D		<b>TT</b>	ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param Chloride	Flag	Units mg/Kg	<u>Conc.</u> 100	<u>Conc.</u> 98.6	Recovery 99	Limits 85 - 115	Analyzed 2010-09-23
	· · · · · ·				~~		
Standard (CC	CV-1)						
QC Batch: 73	783		Date Ana	lyzed: 2010-09	9-23	Anal	lyzed By: AR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-09-2
Standard (IC	V-1)						
QC Batch: 73	784		Date Ana	lyzed: 2010-09	<del>)</del> -23	Anal	lyzed By: AF
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2010-09-2
Standard (CO	CV-1)				·		
<b>Standard (CC</b> QC Batch: 73	· ·		Date Anal	yzed: 2010-09	D-23	Anal	yzed By: AR
	· ·		Date Anal CCVs	yzed: 2010-09 CCVs	)-23 CCVs	Anal Percent	yzed By: AR
	· ·			-			yzed By: AR Date
QC Batch: 73 Param	· ·	Units	CCVs True Conc.	CCVs Found Conc.	CCVs	Percent	Date
QC Batch: 73	784	Units mg/Kg	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date Analyzed
QC Batch: 73 Param	784 Flag		CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
QC Batch: 73 Param Chloride	784 Flag V-1)		CCVs True Conc. 100	CCVs Found Conc.	CCVs Percent Recovery 100	Percent Recovery Limits 85 - 115	Date Analyzed 2010-09-2
QC Batch: 73 Param Chloride Standard (IC	784 Flag V-1)		CCVs True Conc. 100	CCVs Found Conc. 100	CCVs Percent Recovery 100	Percent Recovery Limits 85 - 115	Date Analyzed 2010-09-2
QC Batch: 73 Param Chloride Standard (IC QC Batch: 73	Flag FV-1) 785	mg/Kg	CCVs True Conc. 100 Date Anal ICVs True	CCVs Found Conc. 100 yzed: 2010-09 ICVs Found	CCVs Percent Recovery 100 -23 ICVs Percent	Percent Recovery Limits 85 - 115 Anal Percent Recovery	Date Analyzed 2010-09-2 yzed By: AR Date
QC Batch: 73 Param Chloride Standard (IC	784 Flag V-1)		CCVs True Conc. 100 Date Anal ICVs	CCVs Found Conc. 100 yzed: 2010-09 ICVs	CCVs Percent Recovery 100 -23 ICVs	Percent Recovery Limits 85 - 115 Anal Percent	Date Analyzed 2010-09-2 yzed By: AR

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Report Date 114-6400686	e: September 1 5	27, 2010		Work Order: 10 OG/Caddo Fed	0	umber: 22 of 22 dy County, NM	
			CCVs True	CCVs Found	CCVs Percent	Percent	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-09-23

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			C	50/52/	and Property	7													(Circi				EQU Mot			.)		
				ľ		Midland, Tex	Spring St.								16 (Ext. to C36)		As Be Cd Cr Pb Hg Se An Ba Cd Vr Pd Hg Se										TDS	
CLIENT NAN	łE:					SITE MANAGE	R: Tauarez	(ERS	Γ	P	RES			E	1210					30/824	70/625						, Hq	
PROJECT N		<u> </u>			DT N dd	IAME:		CONTIAIN	R	F		٦					B AQ AB	8	/olatiles	3240/82	. Vol. 82	88		6	F	(08)	a/Cattor	
LAB I.D. NUMBER	DATE	TIME	LT		Т	Eddy	દેક હ્રીંભ E IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED N	HOL	HN03	ICE	NONE	ATEX A0740	TPH BOTS NOT TX1006	PAH 8270	TCLP Metal	TCLP Volati	TCLP Serri Volatiles	GC.MS Vol.	GC.MS Sem	PCB's 8060/	Pest. 808/608	Gamma Spo	Apha Beta (	PLM (Asbestos)	Major Aniona/Cations, pH, TDS	
244531	9/15		5	T	X	A1+-1	6-1	1	Γ			X		T	Tx		T	T	$\square$	T	T	Π	Ť	x	T	Π	T	T
832	1					AH-1	1-1.5	1	Γ	Γ		]]						Τ	Π	Ι				I	Γ			Γ
833					$\prod$	AH-1	2-2.5		Γ			Π							Π			Π						
834				Ι	$\prod$	A14 - 1	3-3.5		Γ	Γ		Π	T	Τ	Τ	Π	Т		Π	Τ	Τ	Π	Τ	$\prod$	Γ	Π	T	$\Box$
835						AH-1	તન્ત સ					$\prod$												Τ			Τ	
836						AH-1	5-5.5																					
837						AH-2	6.1								X													
838			Ш			AH-2	(-1.5					Π																
839						AH·2	2-2.5																				Ι	
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Report Date: October 27, 2010

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

Report Date: October 27, 2010

# Work Order: 10102212

Project Location:	Eddy County, NM
Project Name:	COG/Caddo Federal #6
Project Number:	114-6400686

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
248292	CS-1 0-1' 1' BEB	soil	2010-10-19	00:00	2010-10-22
248293	CS-2 0-1' 1' BEB	soil	2010-10-19	00:00	2010-10-22

**Summary Report** 

#### Sample: 248292 - CS-1 0-1' 1' BEB

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

#### Sample: 248293 - CS-2 0-1' 1' BEB

Param	Flag	Result	Units	$\operatorname{RL}$
Chloride		<200	mg/Kg	4.00

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	200 Ea 5002 B	berdeen Avenue, Suite 9 st Sunset Road, Suite E asin Street, Suite A1 arris Parkway, Suite 110	Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 Ft. Worth, Texas 76132 E-Mail: tab@	888•588•3443	915•585•3443 432•689•6301 817•201•5260	FAX 806•794•1298 FAX 915•585•4944 FAX 432•689•6313	
			Cer	tificati	ons		
W	BENC	: 237019	HUB: NCTRCA	175243974	43100-86536 3444Y0909	DBE:	VN 20657
			NELAP	Certif	fications		
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	LELA	AP-02003 as E-10317		: T10470 LELAP	4221-08-TX -02002	l Report	
Ike Tavarez Tetra Tech	LELA Kansa	AP-02003 as E-10317 <b>Analyti</b>	El Paso	: T10470 LELAP	4221-08-TX -02002	l Report Report Date:	October 27, 2010
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Ike Tavarez Tetra Tech 1910 N. Big S Midland, TX Project Loca Project Nam Project Num Enclosed are	LELA Kansa Spring St 7, 79705 tion: Ed e: Cu ber: 11 the Anal D C	AP-02003 as E-10317 <b>Analytic</b> creet ddy County, NM OG/Caddo Federa 4-6400686 sytical Report and	El Paso cal and C al #6 Quality Control	: T10470 LELAP Quality	4221-08-TX -02002 Contro	l Report Date: Report Date: Work Order:	October 27, 2010 10102212

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Michael April

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

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

Page 2 of 5

### **Case Narrative**

Samples for project COG/Caddo Federal #6 were received by TraceAnalysis, Inc. on 2010-10-22 and assigned to work order 10102212. Samples for work order 10102212 were received intact at a temperature of 3.8 C.

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

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		$\operatorname{Prep}$	$\mathbf{Prep}$	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	64082	2010-10-25 at 08:34	74751	2010-10-26 at 16:10

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 10102212 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: October 27, 2010 114-6400686

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Work Order: 10102212 COG/Caddo Federal #6

## **Analytical Report**

#### Sample: 248292 - CS-1 0-1' 1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Metl	hod: SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74751	Date Analyzed:	2010-10-26	Analyzed By:	$\mathbf{AR}$
Prep Batch:	64082	Sample Prepara	ation: 2010-10-25	Prepared By:	$\mathbf{AR}$
		$\operatorname{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	RI
Chloride	······································	<200	mg/Kg	50	4.00
Sample: 24	8293 - CS-2 0-1' 1' BEE	3			
Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Metl	hod: SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74751	Date Analyzed:		Analyzed By:	$\mathbf{AR}$
Prep Batch:	64082	Sample Prepara	ation: 2010-10-25	Prepared By:	AR
		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	
Chloride		<200	Units mg/Kg	50	
		<200 751 Date Analyzed:			4.0 AR
Chloride Method Bla QC Batch:	ank (1) QC Batch: 74 74751	<200 751 Date Analyzed:	mg/Kg 2010-10-26 2010-10-25	50 Analyzed By:	4.0
Chloride Method Bla QC Batch: Prep Batch: Parameter	ank (1) QC Batch: 74 74751	<200 751 Date Analyzed: QC Preparation:	mg/Kg 2010-10-26 2010-10-25 PL	50 Analyzed By:	AR RI
Chloride Method Bla QC Batch: Prep Batch:	ank (1) QC Batch: 74 74751 64082	<200 751 Date Analyzed: QC Preparation: MD	mg/Kg 2010-10-26 2010-10-25 PL llt	50 Analyzed By: Prepared By:	4.0 AR AR RI
Chloride Method Bla QC Batch: Prep Batch: Parameter Chloride	ank (1) QC Batch: 74 74751 64082	<200 751 Date Analyzed: QC Preparation: MD Resu	mg/Kg 2010-10-26 2010-10-25 PL llt	50 Analyzed By: Prepared By: Units	4.0 AR AR RI
Chloride Method Bla QC Batch: Prep Batch: Parameter Chloride	ank (1) QC Batch: 74 74751 64082 Flag	<200 751 Date Analyzed: QC Preparation: MD Resu <2.1	mg/Kg 2010-10-26 2010-10-25 PL llt	50 Analyzed By: Prepared By: Units	4.0 AR AR RI 4
Chloride Method Bla QC Batch: Prep Batch: Parameter Chloride Laboratory QC Batch:	ank (1) QC Batch: 74 74751 64082 Flag Control Spike (LCS-1) 74751	<200 .751 Date Analyzed: QC Preparation: MD Resu <2.1	mg/Kg 2010-10-26 2010-10-25 PL lt 18 2010-10-26	50 Analyzed By: Prepared By: <u>Units</u> mg/Kg	4.0 AR AR R 4
Chloride Method Bla QC Batch: Prep Batch: Parameter Chloride Laboratory	ank (1) QC Batch: 74 74751 64082 Flag Control Spike (LCS-1) 74751	<200 751 Date Analyzed: QC Preparation: MD Resu <2.1 Date Analyzed:	mg/Kg 2010-10-26 2010-10-25 PL lt 18 2010-10-26	50 Analyzed By: Prepared By: mg/Kg Analyzed By: Prepared By:	4.0 AR AR RI 4
Chloride Method Bla QC Batch: Prep Batch: Parameter Chloride Laboratory QC Batch:	ank (1) QC Batch: 74 74751 64082 Flag Control Spike (LCS-1) 74751	<200 751 Date Analyzed: QC Preparation: MD Resu <2.1 Date Analyzed: QC Preparation:	mg/Kg 2010-10-26 2010-10-25 PL lt 18 2010-10-26 2010-10-25	50 Analyzed By: Prepared By: <u>Units</u> <u>mg/Kg</u> Analyzed By: Prepared By: Matrix	4.0 AR AR AR AR

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

114-640068	te: October 27 36	7, 2010			e Numbe ddy Cou							
		LCSD			Spike	Matrix		Rec.		RPD		
Param Chloride		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit		
		102	mg/Kg	1	100	<2.18	102	85 - 115	4	20		
Percent rec	overy is based	on the spike result	. RPD is b	based on	the spike ar	nd spike duj	olicate re	esult.				
Matrix Sp	oike (MS-1)	Spiked Sample: 2	248302									
QC Batch:	74751		Date An	alvzed:	2010-10-2	6		Ana	alyzed By	y: AR		
Prep Batch: 64082			Date Analyzed: 2010-10-26 QC Preparation: 2010-10-25									
						-			pared By	r: AR		
_			IS			Spike	Ma			Rec.		
Param				Units	Dil.	Amount	Res		ec.	Limit		
Chloride				ng/Kg	100	10000			01	85 - 115		
Percent rec	overy is based	on the spike result.	. RPD is b	based on	the spike ar	nd spike du	plicate r	esult.				
<b>~</b>		MSD	<b>T</b> T 1.	<b>D</b> .1	Spike	Matrix	5	Rec.		RPD		
Param Chloride		Result 11200	Units	Dil.	Amount 10000	Result 864	Rec. 103	Limit 85 - 115	$\frac{\text{RPD}}{2}$	Limit 20		
			mg/Kg	100				· · · · · · · · · · · · · · · · · · ·	4	20		
Percent rec	OTATU 10 DOCA			1			1					
	overy is based	on the spike result.	. RPD is t	based on	the spike ar	nd spike duj	plicate r	esult.				
	·	on the spike result.	. RPD is t	based on t	the spike ar	nd spike du	olicate r	esult.				
Standard	(ICV-1)	on the spike result.			the spike ar 2010-10-26		plicate r		alyzed By	y: AR		
Standard	(ICV-1)	on the spike result.	Date An	alyzed:	2010-10-26	-		Ana	alyzed By	y: AR		
Standard	(ICV-1)	on the spike result.		alyzed: IC	-					y: AR Date		
Standard QC Batch:	(ICV-1)	on the spike result. Units	Date An ICVs	alyzed: IC For	2010-10-26 Vs	ICVs		Ana				
Standard QC Batch: Param	(ICV-1) 74751	- -	Date An ICVs True	alyzed: IC For Co	2010-10-26 Vs 1nd	ICVs Percent	. I	Ana Percent Recovery	A	Date nalyzed		
Standard	(ICV-1) 74751 Flag	Units	Date An ICVs True Conc.	alyzed: IC For Co	2010-10-26 Vs ind nc.	ICVs Percent Recovery	. I	Ana Percent Recovery Limits	A	Date		
Standard QC Batch: Param Chloride	(ICV-1) 74751 Flag (CCV-1)	Units	Date An ICVs True Conc. 100	alyzed: IC For Cc 99	2010-10-26 Vs ind nc.	ICVs Percent Recovery	. I	Ana Percent Recovery Limits 85 - 115	A	Date nalyzed 10-10-26		
Standard QC Batch: Param Chloride Standard	(ICV-1) 74751 Flag (CCV-1)	Units	Date An ICVs True Conc. 100 Date An	alyzed: IC For Cc 99 alyzed:	2010-10-26 Vs ind nc. ).9 2010-10-26	ICVs Percent Recovery 100	. I	Ana Percent Recovery Limits 85 - 115	A1 20	Date nalyzed 10-10-26		
Standard QC Batch: Param Chloride Standard	(ICV-1) 74751 Flag (CCV-1)	Units	Date An ICVs True Conc. 100	alyzed: IC For Cc 99 alyzed: CC	2010-10-26 Vs ind nc. ).9	ICVs Percent Recovery	. I	Ana Percent Recovery Limits 85 - 115 Ana	An 201 alyzed By	Date nalyzed 10-10-26		
Standard QC Batch: Param Chloride Standard	(ICV-1) 74751 Flag (CCV-1)	Units	Date An ICVs True Conc. 100 Date An CCVs	alyzed: For Cc 99 alyzed: CC For	2010-10-26 Vs ind nc. 9.9 2010-10-26 ZVs	ICVs Percent Recovery 100 CCVs	. I	Ana Percent Recovery Limits 85 - 115 Ana Percent	Ar 201 alyzed By	Date nalyzed 10-10-26 y: AR		

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LIENT NAM	COG TK2 TAVEY-2					NERS				RVAT			201XL	s Ba C	С Ва С			60/624	270/625						ns, pH,													
	COGY TK2 Taver. OJECT NO.: PROJECT NAME: M-CHOOLEL COGY Caddo Frd #L					#6								CONTAI	ξ Γ			T			MOD.	Is Ag A	Is Ag A	les Volatiles		8240/82	i. Vol. 8.			ų,	(Air)	tos)	is/Catio					
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Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.