		SI	TE INF	ORMA	TION						
		Report	Type:	Closu	re Re	quest					
General Site Info	rmation: 🚞 🚟		material Park		SHIFE		LICENSE CONTRACT				
Site:		Santa Elena	19 Fede	ral #0011							
Company:		COG Opera									
Section, Townsh	nip and Range	Unit E	Sec 19		T16S	R30E					
Lease Number:		(API#) 30-015-40567									
County:		Eddy Count		000 11		- T	10101010101				
GPS: Surface Owner:		Fadavel	32.910	29° N			104.01885° W				
Mineral Owner:		Federal									
Directions:			(north). C	ontinue tra			iles. Turn left traveling west 2.9 miles and turn back to the east. Travel 1.4				
Release:Data:ℤ: Date Released:		2/21/2013									
Type Release:		Produced W	ater								
Source of Contan	nination:	Water Tank Valve									
Fluid Released:		40 bbls									
Fluids Recovered	THE RESIDENCE OF THE RESIDENCE OF THE PARTY	30 bbls	t tea "Jones" Agrae	Wilelander, Tabetta 2008	CONTRACTOR CONTRACTOR	STANK OF STANKER STANKERS WAS ARREST OF THE STANKEN					
	nication:	**************************************	VE-PUIF M								
Name:	Robert McNeill	<u> </u>				lke Tavare	Z				
Company:	COG Operating, LI	<u>_C</u>	<u> </u>		****	Tetra Tech					
Address:	One Concho Cente	er				1910 N. Bi	g Spring				
	600 W. Illinois Ave										
City:	Midland Texas, 797	701				Midland, To	exas				
Phone number:	(432) 686-3023					(432) 682-4	4559				
Fax:	(432) 684-7137										
Email:	Rmcneill@conch	o.com				ike.tavare	z@tetratech.com				

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	10
>100 ft.	0	00
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0.	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft:	0	0
Total Ranking Score:	*******	RECEIVED

- Accepta	ble Soil RRAL (r	ng/kg) 📖
Benzene	Total BTEX	TPH
10	50	5,000





October 21, 2013

Mr. Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Closure Report for the COG Operating LLC., Santa Elena 19 Federal #001H, Unit E, Section 19, Township 16 South, Range 30 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Santa Elena 19 Federal #001H located in Unit E, Section 19, Township 16 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.91029°, W 104.01885°. 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 February 21, 2013, and released approximately forty (40) barrels of produced water from a storage tank valve. Thirty (30) barrels of produced water were recovered. The leak was caused by a trucking company not closing the tank valve. The spill affected an area of approximately $20' \times 30'$ on the pad and $20' \times 60'$ in the pasture. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 19. According to the NMOCD groundwater map, the average depth to groundwater in this area is approximately 250' below surface. The groundwater data is shown in Figure B.



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On March 20, 2013, Tetra Tech personnel inspected and sampled the spill area. Three (3) auger holes (AH-1 through AH-3) were installed using a stainless steel hand auger to assess the impacted soils. Selected 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 sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all of the auger hole samples were below the RRAL for TPH and BTEX. Auger hole (AH-1) did not show a chloride impact to the area. A shallow chloride impact was detected in the areas of AH-2 and AH-3, which showed elevated chloride concentrations in the shallow soils and declined significantly at 5-5.5' and 4-4.5 of 68.3 mg/kg and <20.0 mg/kg, respectively.

Closure Activities

On July 23, 2013, Tetra Tech personnel supervised the excavation of the impacted soils. In order to remove the chloride impacts, the areas of AH-2 and AH-3 were excavated to approximately 4.0' below surface. The excavated areas and depths are highlighted in Table 1 and shown on Figure 4. Approximately 220 cubic yards³ of soil were removed and transported to R360 facility for proper disposal.

Once excavated, Tetra Tech collected confirmation samples from the excavation sidewalls and bottoms. The sampling results are shown in Table 1 and laboratory reports are included in Appendix C. Based on the results, the excavation was backfilled with clean soil, ripped and seeded.



Based on the remediation activities performed at this location, COG requests closure for this 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.

Respectfully submitted,

TETRA TECH)

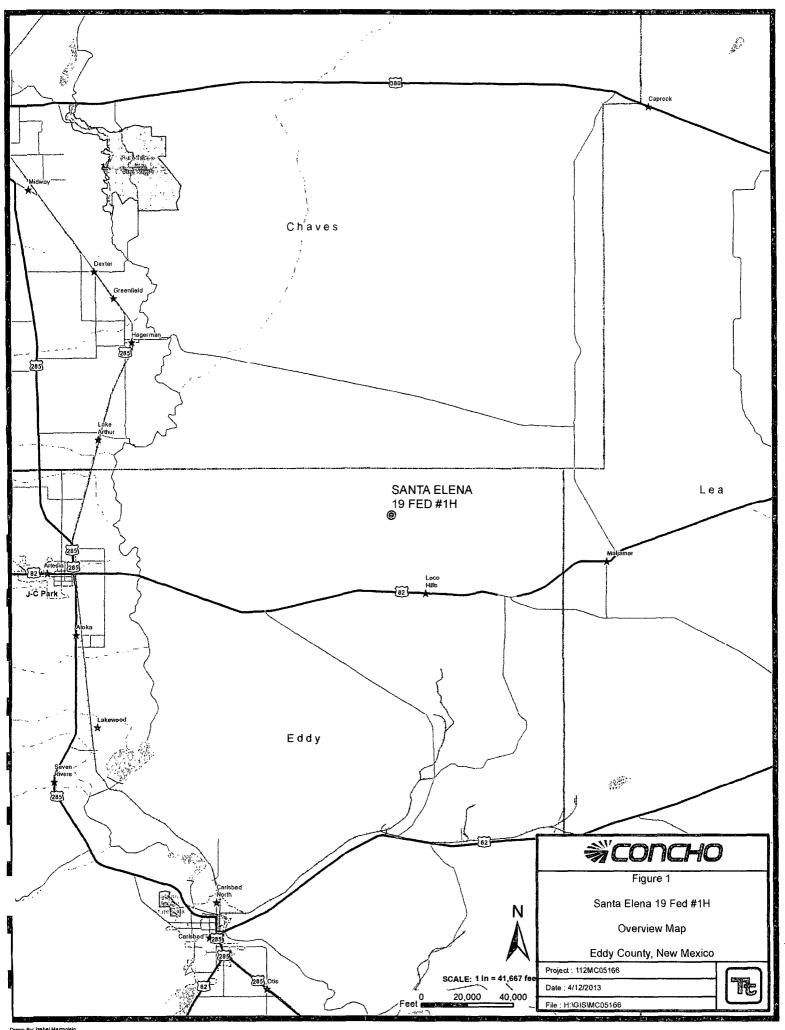
ke Tavarez 1

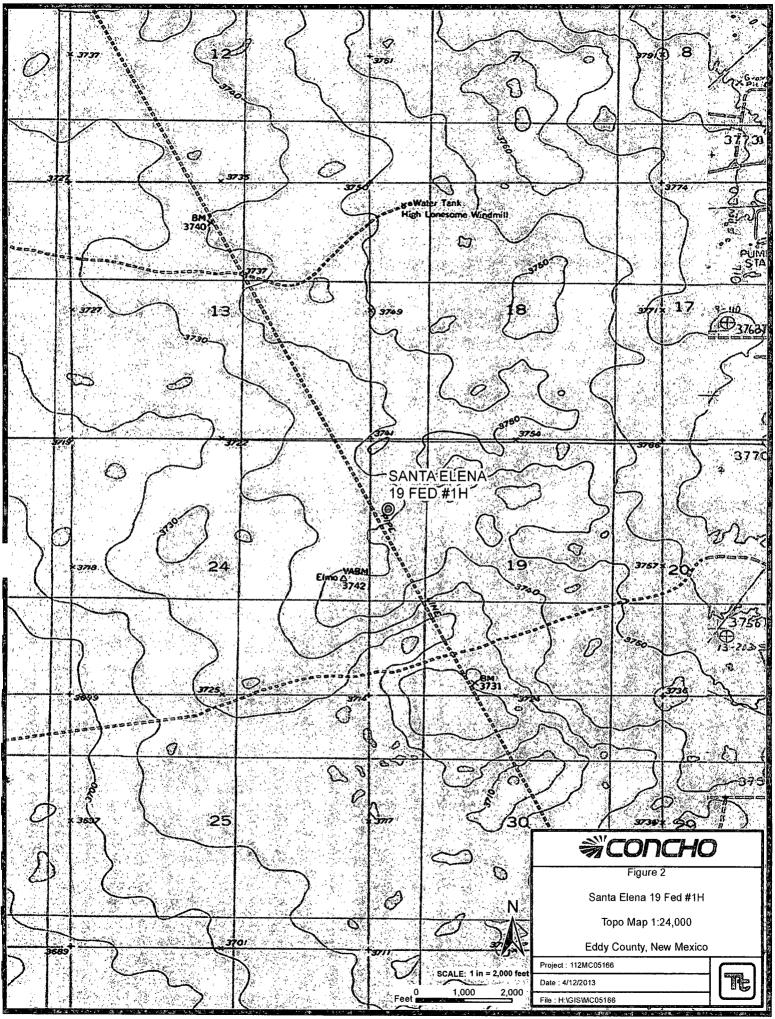
Senior Project Manager

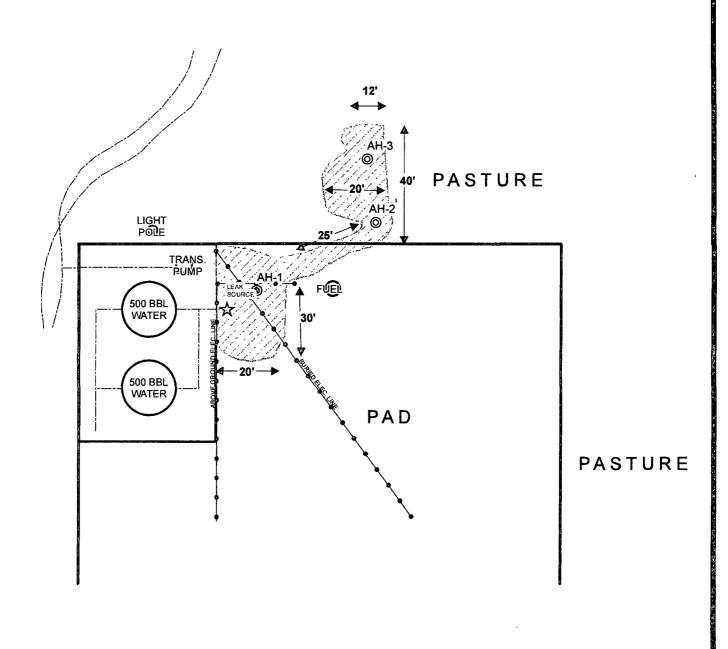
cc: Robert McNeill - COG

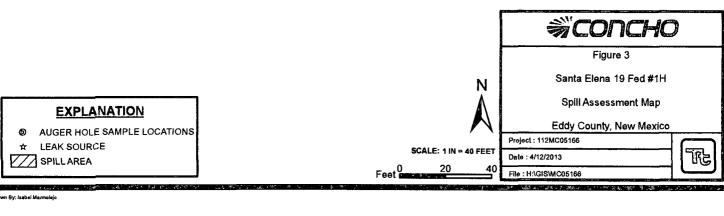
Jim Amos - BLM

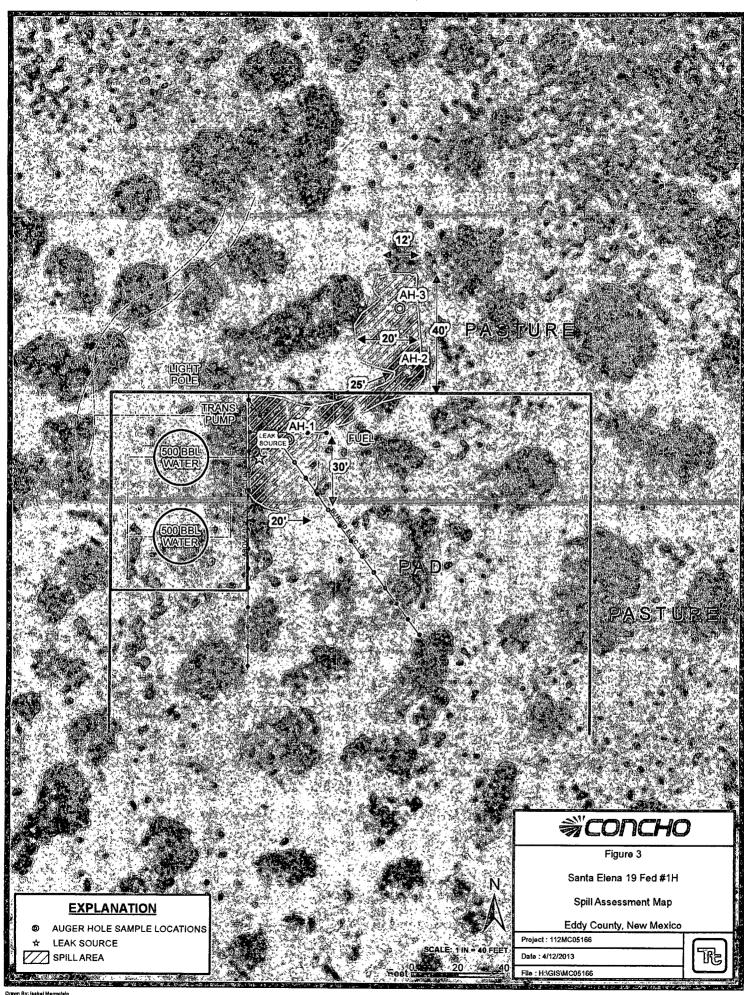
FIGURES

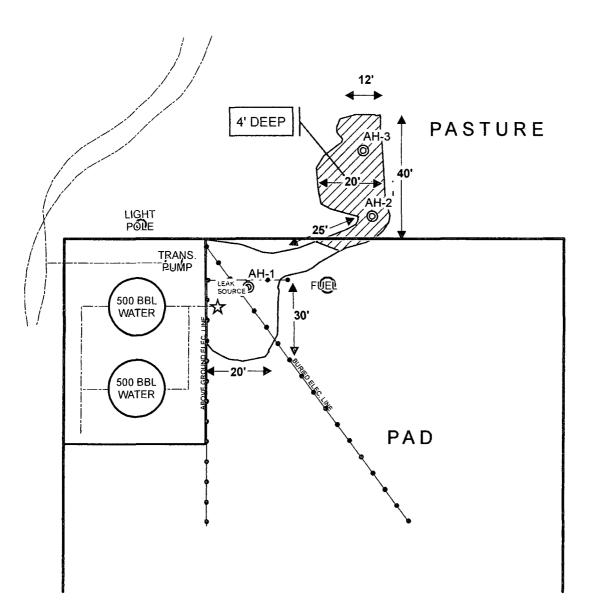












PASTURE

EXPLANATION

AUGER HOLE SAMPLE LOCATIONS

LEAK SOURCE EXCAVATED AREA

SCALE: 1 IN = 40 FEET Feet . 20



Figure 4

Santa Elena 19 Fed #1H

Excavation Area & Depth Map

Eddy County, New Mexico

Project: 112MC05166

Date : 4/12/2013

File: H:\GIS\MC05166



TABLES

Table 1 COG Operating LLC. Santa Elena 19 Federal #14 Eddy County, New Mexico

Sample ID	Sample	BEB Sample	Excavation Bottom	Soil 9	Status		TPH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample to	Date	Depth (ft)	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	4/5/2013	0-1	0	X		4.04	<50.0	4.04	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<20.0
	10	1-1.5	"	Х		-	-	-	-	-	-	-	-	82.9
	"	2-2.5	n	Х		-	_		-	-	-	-	-	<20.0
AH-2	4/5/2013		0.5	3	X.	~ 4.00	°,<50:0°⊋	<50.0	<0.0200	*<0!0200°	<0.0200	<0:0200	<0.0200	3,920
	п	11.5		3.73	X	NI A						Y4X		7:320
	"	2-2.5			X	4.50				1407				12,400
	0	3-3:5			X					4231		发热器	(建)	18,200
	п	4-4.5	0	Х		-	-	-	-	-	-	-	-	1,100
	"	5-5.5	н	Х		-		•	-	-	-		-	68.3
CS-1 Bottom Hole	7/23/2013	-	-	Х		-	-	-	_	-	-	-	<u> </u>	224
CS-1 East Sidewall	7/23/2013	-	-	Х		-	-	-	-	-	-			<20.0
CS-1 West Sidewall	7/23/2013	-	-	Х		-	-	-	-	-	-	-	-	666
CS-1 South Sidewall	7/23/2013	-	-	Х		-	-	-	-	-	-			<20.0
AH-3	4/5/2013	e 0-1 °	\$ 0.5 _{\$}		X	<4.00	<50!0°	:<50.0°	<0.0200 _e	<0.0200	¥/<0:0200 (<0.0200	<0.0200	£6,010
	"	1.1.5¢	A 200		΄Χ	RETAIN		3027.03						12,800
	n	2-2.5			X						ME ASSESSED.			12,300
	R	3-3:5	数规则		X	ALE TO A	GNZ/	KLY:	3722			13,750,7		4,000
	0	4-4.5	"	Х		-	-	-	-	-		-		<20.0
	11	5-5.5	11	Х		-	-		•	-		-	-	193
CS-2 Bottom Hole	7/23/2013	-	-	Х		-	-	-	-	-	-	<u> </u>		74.5
CS-2 East Sidewall	7/23/2013	-	-	Х		-		-	-	-	~	-	-	24.8
CS-2 West Sidewall	7/23/2013	-	-	Х		-	-	-	-	-	-	-	-	<20.0
CS-2 South Sidewall	7/23/2013	-	-	X		-	-	-	-	-	-	-	-	513

(-) Not Analyzed

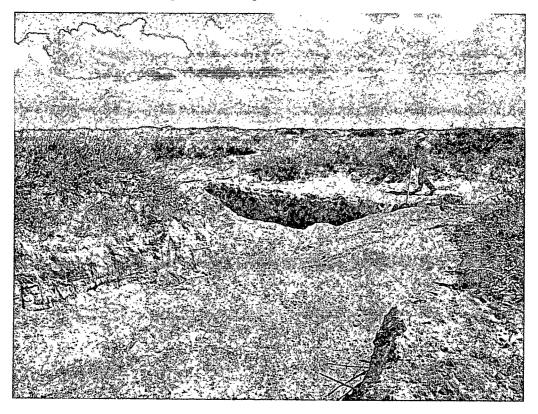
(BEB) Below Excavation Bottom

Excavation Depths

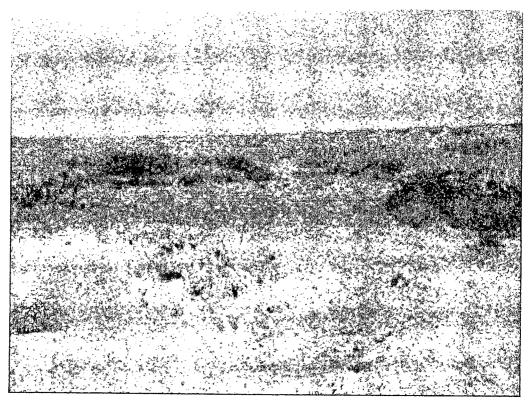
PHOTOGRAPHS

COG Operating LLC Santa Elena 19 Fed #001H Eddy County, New Mexico





View North- Area of AH-2 and AH-3



View North - Backfill

APPENDIX A

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

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

	OPERATOR	☐ Initial Report ☒ Final Report							
Name of Company COG Operating LLC	Contact Pat I	Ellis							
Address 600 W. Illinois Avenue, Midland, TX 79701	Telephone No. (432) 23	0-0077							
Facility Name Santa Elena 19 Federal #001H	Facility Type Tank B	attery							
Surface Owner: Federal Mineral Owner		Lagge No. (ADI#) 20 015 40567							
Surface Owner: Federal Mineral Owner		Lease No. (API#) 30-015-40567							
LOCATIO	ON OF RELEASE								
		East/West Line County							
E 16 19S 30E		Eddy							
Latitude N 32.90989	9° Longitude W 104.01856°								
NATURI	E OF RELEASE								
Type of Release: Produced Water	Volume of Release 40 bbls	Volume Recovered 30 bbls							
Source of Release: Open valve on a load line to water tank	Date and Hour of Occurrence	Date and Hour of Discovery							
	02/21/2013	02/21/2013 7:00 a.m.							
Was Immediate Notice Given?	If YES, To Whom?	L. Bertelen, OCD							
✓ Yes ☐ No ☐ Not Required	I WII	ke Bratcher—OCD							
By Whom? Michelle Mullins	Date and Hour 03/4/2013 10:0	01 a.m.							
Was a Watercourse Reached?	If YES, Volume Impacting the	Watercourse.							
☐ Yes ☒ No	N/A								
If a Watercourse was Impacted, Describe Fully.*									
Describe Cause of Problem and Remedial Action Taken.*									
The truck driver left the valve open on a load line to the water tank. Shu	it valve on the load line to prevent f	further release of produced water.							
Describe Area Affected and Cleanup Action Taken.*									
True Test or remaining the second of the second or the sec		777							
Tetra Tech personnel inspected the site and collected samples to define to proper disposal. The site was then brought up to surface grade with clear									
NMOCD for review.	,								
I hereby certify that the information given above is true and complete to	the best of my knowledge and under	erstand that pursuant to NMOCD rules and							
regulations all operators are required to report and/or file certain release	notifications and perform correctiv	e actions for releases which may endanger							
public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia	he NMOCD marked as "Final Reports contamination that page a threat	ort" does not relieve the operator of liability							
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of resi	ponsibility for compliance with any other							
federal, state, or local laws and/or regulations.									
	OIL CONSE	ERVATION DIVISION							
Signature:									
	A Division								
Printed Name: Ike Tavarez (Agant Lu CoC)	Approved by District Supervisor:								
ι									
Title: Project Manager	Approval Date:	Expiration Date:							
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval: Attached								
Date: 10-25-13 Phone: (432) 682-4559	/ Muches _								

Phone: (432) 682-4559 * Attach Additional Sheets If Necessary

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

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

Form C-141

Release Notification and Corrective Action

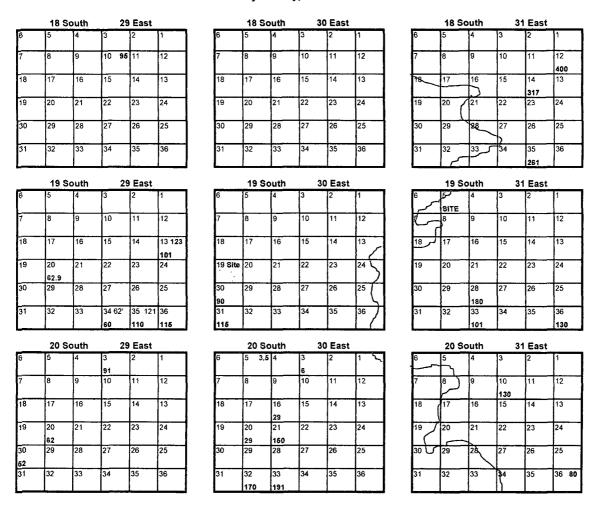
OPERATOR

				OPERA	TOR			al Report		Final Report		
Name of Company COG C	PERATIN	IG LLC	T,	Contact Pat Ellis								
Address 600 West Illinois	Avenue, M	idland, TX 7970)1 '	Telephone N	No. 432-	230-00	77					
Facility Name SANTA ELEN	A 19 FED	ERAL #001H)	Facility Type TANK BATTERY								
Surface Owner FEDERAL		Mineral C	wner				Lease N	lo. (API#)	30-01:	5-40567		
		LOCA	TIOI	OF REI	LEASE							
Unit Letter Section Township E 16 19	Range 30E	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County	EDDY			
		Latitude 32.9	0989	Longi	t uđe 104.01856							
NATURE OF RELEASE												
Type of Release Produced water				Volume of	Release 40bbls		Volume F	Recovered	30bbls	.		
Source of Release Open valve on lo	ad line to w	ater tank		Date and H 02-21-2013	lour of Occurrenc	е		Hour of Dis 13 7:00am	covery			
Was Immediate Notice Given?	Yes [No Not Re	equired	If YES, To		Mike B	ratcher - O	CD				
By Whom? Michelle Mullins				Date and H	lour 03/04/2013	10:01	ım					
Was a Watercourse Reached?] Yes ⊠] No		If YES, Vo	lume Impacting t	he Wate	ercourse.					
If a Watercourse was Impacted, Des	If a Watercourse was Impacted, Describe Fully.*											
Describe Cause of Problem and Ren	edial Actio	n Taken.*			Thirties of the second							
The truck driver left the valve open	n the load l	line to the water ta	nk. Shu	t valve on loa	d line to prevent t	further r	elease of p	roduced was	er.			
Describe Area Affected and Cleanup	Action Tal	ken.*							******			
Initially 40bbls of produced water w vacuum truck. The spill occurred on												
A work plan will presented to the NI						occu ic	smoved mo	in the locati	on and	ine pasture.		
I hereby certify that the information												
regulations all operators are required public health or the environment. The	to report as	nd/or file certain re ce of a C-141 repo	elease no	otifications ar NMOCD m	id perform correct arked as "Final Re	tive acti enort" d	ons for rele oes not reli	ases which	may en	danger		
should their operations have failed to	adequately	investigate and re	emediate	contamination	on that pose a thre	at to gr	ound water	, surface wa	ter, hur	nan health		
or the environment. In addition, NM federal, state, or local laws and/or re	OCD accep gulations.	otance of a C-141	report do	oes not relieve	e the operator of r	esponsi	bility for co	ompliance w	ith any	other		
					OIL CONS	SERV	ATION	DIVISIO	N			
Signature:												
	h Russo	•		Approved by District Supervisor:								
Title: Senior Envir		coordinator		Approval Dat	e:	F	Expiration I	Date:				
E-mail Address: jrusso@	concho.co	m	(Conditions of	Approval:			Attached				
Date: 03-5-2013												

^{*} Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data Average Depth to Groundwater (ft) Santa Elena 19 Federal #001H Eddy County, New Mexico





USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Field water level

New Mexico Water and Infrastructure Data System

APPENDIX C



200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Texas 79703 Midland. Carrollton, Texas 75006 432-689-6301

FAX 432 689 6313

972-242-7750

E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

(Corrected Report)

Ike Tavarez

Tetra Tech

1910 N. Big Spring Street Midland, TX, 79705

Report Date: April 22, 2013

Work Order:

13040904





Project Location: Eddy Co., NM

Project Name: Skye Trucking/COG/Santa Elena 19 Federal #14

Project Number: 112MC05166

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
325487	AH-1 0-1'	soil	2013-04-05	00:00	2013-04-08
325488	AH-1 1-1.5'	soil	2013-04-05	00:00	2013-04-08
325489	AH-1 2-2.5	soil	2013-04-05	00:00	2013-04-08
325490	AH-2 0-1' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325491	AH-2 1-1.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325492	AH-2 2-2.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325493	AH-2 3-3.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325494	AH-2 4-4.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325495	AH-2 5-5.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325496	AH-3 0-1' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325497	AH-3 1-1.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325498	AH-3 2-2.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325499	AH-3 3-3.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325500	AH-3 4-4.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08
325501	AH-3 5-5.5' 0.5' EB	soil	2013-04-05	00:00	2013-04-08

Report Corrections (Work Order 13040904)

• 4/22/13: Correct project name per client.

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

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

Report Contents

Case Narrative
Analytical Report
Sample 325487 (AH-1 0-1')
Sample 325488 (AH-1 1-1.5')
Sample 325489 (AH-1 2-2.5°)
Sample 325490 (AH-2 0-1' 0.5' EB)
Sample 325491 (AH-2 1-1.5' 0.5' EB)
Sample 325492 (AH-2 2-2.5' 0.5' EB)
Sample 325493 (AH-2 3-3.5' 0.5' EB)
Sample 325494 (AH-2 4-4.5' 0.5' EB)
Sample 325495 (AH-2 5-5.5' 0.5' EB)
Sample 325496 (AH-3 0-1' 0.5' EB)
Sample 325497 (AH-3 1-1.5' 0.5' EB)
Sample 325498 (AH-3 2-2.5' 0.5' EB)
Sample 325499 (AH-3 3-3.5' 0.5' EB)
Sample 325500 (AH-3 4-4.5' 0.5' EB)
Sample 325501 (AH-3 5-5.5' 0.5' EB)
Sample 525001 (Att-5 5-5.5 0.5 ED)
Method Blanks
QC Batch 100353 - Method Blank (1)
QC Batch 100355 - Method Blank (1)
QC Batch 100358 - Method Blank (1)
QC Batch 100413 - Method Blank (1)
QC Batch 100414 - Method Blank (1)
QC Batch 100415 - Method Blank (1)
40 Dated 100210 Promote Digital (1)
Laboratory Control Spikes
QC Batch 100353 - LCS (1)
QC Batch 100355 - LCS (1)
QC Batch 100358 - LCS (1)
QC Batch 100413 - LCS (1)
QC Batch 100414 - LCS (1)
QC Batch 100415 - LCS (1)
QC Batch 100353 - MS (1)
QC Batch 100355 - MS (1)
QC Batch 100358 - MS (1)
QC Batch 100413 - MS (1)
QC Batch 100414 - MS (1)
QC Batch 100415 - MS (1)
Calibration Standards
QC Batch 100353 - CCV (1)
QC Batch 100353 - CCV (2)
QC Batch 100353 - CCV (3)
QC Batch 100353 - CCV (4)

QC Batch 100355 - CCV (1)		 																
QC Batch 100355 - CCV (2)		 																
QC Batch 100355 - CCV (3)		 																
QC Batch 100358 - CCV (1)	١,	 																
QC Batch 100358 - CCV (2)		 														, .		
QC Batch 100358 - CCV (3)		 																
QC Batch 100413 - CCV (1)		 				 												
QC Batch 100413 - CCV (2)		 																
QC Batch 100414 - CCV (1)		 																
QC Batch 100414 - CCV (2)	,	 														. ,		
QC Batch 100415 - CCV (1)		 																
QC Batch 100415 - CCV (2)		 																
Appendix																		
Report Definitions		 																
Laboratory Certifications .		 				 												
Standard Flags		 																
Attachmente																		

Case Narrative

Samples for project Skye Trucking/COG/Santa Elena 19 Federal #14 were received by TraceAnalysis, Inc. on 2013-04-08 and assigned to work order 13040904. Samples for work order 13040904 were received intact at a temperature of 5.8 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	85036	2013-04-10 at 09:53	100355	2013-04-10 at 09:54
Chloride (Titration)	SM 4500-Cl B	85093	2013-04-10 at 14:08	100413	2013-04-11 at 14:10
Chloride (Titration)	SM 4500-Cl B	85093	2013-04-10 at 14:08	100414	2013-04-11 at 14:11
Chloride (Titration)	SM 4500-Cl B	85093	2013-04-10 at 14:08	100415	2013-04-11 at 14:12
TPH DRO - NEW	S 8015 D	85031	2013-04-09 at 08:00	100353	2013-04-10 at 08:58
TPH GRO	S 8015 D	85039	2013-04-10 at 10:34	100358	2013-04-10 at 10:35

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 13040904 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.

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Analytical Report

Sample: 325487 - AH-1 0-1'

Laboratory: Midland

Analysis: BTEXQC Batch: 100355 Prep Batch: 85036

Analytical Method: Date Analyzed:

S 8021B 2013-04-10 Sample Preparation: 2013-04-09 Prep Method: S 5035 Analyzed By: AH

Prepared By:

RT

Work Order: 13040904

			$\kappa_{\rm L}$			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	υ	1	< 0.0200	mg/Kg	1	0.0200
Toluene	U	1	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	< 0.0200	$_{ m mg/Kg}$	1	0.0200
Xylene	u	1	< 0.0200	m mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.57	mg/Kg	1	2.00	78	70 - 130

Sample: 325487 - AH-1 0-1'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 100413 Prep Batch: 85093

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2013-04-11 2013-04-10

Prep Method: N/A Analyzed By: AR Prepared By:

AR

CW

RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	υ		< 20.0	mg/Kg	5	4.00

Sample: 325487 - AH-1 0-1'

Laboratory: Analysis:

Midland TPH DRO - NEW

QC Batch: 100353 Prep Batch: 85031

Analytical Method: Date Analyzed:

S 8015 D 2013-04-10 Sample Preparation: 2013-04-09 Prep Method: N/A Analyzed By: CW Prepared By:

RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	υ	1	< 50.0	mg/Kg	1	50.0

112MC05166

Work Order: 13040904

Skye Trucking/COG/Santa Elena 19 Federal #14

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Eddy Co., NM

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

Sample: 325487 - AH-1 0-1'

Laboratory:

Prep Batch:

Midland

Analysis: QC Batch:

TPH GRO

100358 85039

Analytical Method: Date Analyzed:

S 8015 D 2013-04-10 Sample Preparation: 2013-04-10 Prep Method: S 5035

Analyzed By: AHPrepared By: AH

RL

Result Parameter Flag Cert Units Dilution RLGRO Qs 4.04 mg/Kg 4.00

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	${f Amount}$	Recovery	Limits
Trifluorotoluene (TFT)			1.67	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.62	mg/Kg	1	2.00	81	70 - 130

Sample: 325488 - AH-1 1-1.5'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 100414 Prep Batch: 85093

Analytical Method: Date Analyzed:

SM 4500-Cl B 2013-04-11 2013-04-10

Prep Method: N/A Analyzed By: AR.

AR

Prepared By:

RLCert Parameter Flag Result Units Dilution RL Chloride 82.9 mg/Kg 5 4.00

Sample Preparation:

Sample: 325489 - AH-1 2-2.5'

Laboratory:

Midland

100414

85093

Analysis: QC Batch: Prep Batch: Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B

Prep Method: N/A Analyzed By: AR

Sample Preparation:

2013-04-11 2013-04-10

Prepared By: AR

 $continued \dots$

112MC05166

Work Order: 13040904

Skye Trucking/COG/Santa Elena 19 Federal #14

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sample 325489 continued . . .

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 20.0	mg/Kg	5	4.00

Sample: 325490 - AH-2 0-1' 0.5' EB

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 100355 Date Analyzed: 2013-04-10 Analyzed By: AH Prep Batch: 85036 Sample Preparation: 2013-04-09 Prepared By: AH

		m RL						
Parameter	Flag	Cert	Result	Units	Dilution	RL		
Benzene	U	1	< 0.0200	mg/Kg	1	0.0200		
Toluene	υ	i	< 0.0200	mg/Kg	1	0.0200		
Ethylbenzene	U	1	< 0.0200	mg/Kg	1	0.0200		
Xylene	u	ı	< 0.0200	mg/Kg	1	0.0200		

				-		Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Triffuorotoluene (TFT)			1.84	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.55	mg/Kg	1	2.00	78	70 - 130

Sample: 325490 - AH-2 0-1' 0.5' EB

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 100414 Date Analyzed: 2013-04-11 Analyzed By: AR Prep Batch: 85093 Sample Preparation: 2013-04-10 Prepared By: AR

			KL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			3920	mg/Kg	10	4.00

Report Date: April 22, 2013 112MC05166 Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 9 of 28 Eddy Co., NM

Sample: 325490 - AH-2 0-1' 0.5' EB

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 100353 Prep Batch: 85031 Analytical Method:

Analytical Method: S 8015 D Date Analyzed: 2013-04-10

S 8015 D Prep Method: N/A 2013-04-10 Analyzed By: CW 2013-04-09 Prepared By: CW

RL

Sample Preparation:

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			124	mg/Kg	1	100	124	70 - 130

Sample: 325490 - AH-2 0-1' 0.5' EB

Laboratory: Midland

Analysis: TPH GRO QC Batch: 100358 Prep Batch: 85039 Analytical Method: S 8015 D
Date Analyzed: 2013-04-10
Sample Preparation: 2013-04-10

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

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	$_{ m Units}$	Dilution	${f Amount}$	Recovery	Limits
Trifluorotoluene (TFT)			1.64	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.58	mg/Kg	1	2.00	79	70 - 130

Sample: 325491 - AH-2 1-1.5' 0.5' EB

Laboratory: Midland

Analysis: Chloride (Titration)
QC Batch: 100414
Prep Batch: 85093

Analytical Method: SM 4500-Cl B Date Analyzed: 2013-04-11 Sample Preparation: 2013-04-10

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Work Order: 13040904

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Skye Trucking/COG/Santa Elena 19 Federal #14

Eddy Co., NM

Sample: 325492 - AH-2 2-2.5' 0.5' EB

Laboratory:

Midland

Chloride (Titration) Analysis:

Analytical Method:

Cert

Cert

SM 4500-Cl B

Prep Method: N/A Analyzed By: AR

QC Batch: Prep Batch:

Parameter

Chloride

100414 85093

Date Analyzed: 2013-04-11 Sample Preparation:

2013-04-10

Prepared By: AR

Flag

RLResult 12400

Units mg/Kg Dilution RL10 4.00

Sample: 325493 - AH-2 3-3.5' 0.5' EB

Laboratory:

Midland

Analysis:

Chloride (Titration)

100414

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

QC Batch: Prep Batch:

85093

Date Analyzed: Sample Preparation:

2013-04-11 2013-04-10 Analyzed By: ARPrepared By: AR.

RL

Parameter Flag Chloride

Result 18200

Units mg/Kg Dilution RL

10

4.00

Sample: 325494 - AH-2 4-4.5' 0.5' EB

Laboratory:

Midland

Analysis: Chloride (Titration)

QC Batch: 100414 Analytical Method: Date Analyzed:

SM 4500-Cl B 2013-04-11

Prep Method: N/A Analyzed By: AR

Prep Batch:

Chloride

85093

Sample Preparation: 2013-04-10

RL

1100

Prepared By: AR

Flag Parameter

Cert Result

Units

mg/Kg

Dilution RL10 4.00

Sample: 325495 - AH-2 5-5.5' 0.5' EB

Laboratory: Analysis:

Midland

Chloride (Titration)

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2013-04-11 2013-04-10

Prep Method: N/A Analyzed By: AR. Prepared By: AR

QC Batch: Prep Batch: 85093

100414

112MC05166 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 11 of 28

Eddy Co., NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			68.3	mg/Kg	5	4.00

Work Order: 13040904

Sample: 325496 - AH-3 0-1' 0.5' EB

Laboratory: Midland

Analysis: BTEX QC Batch: 100355 Analytical Method: S 8021BDate Analyzed: 2013-04-10

Prep Method: S 5035 Analyzed By: AH

Prep Batch: 85036 Sample Preparation: 2013-04-09 Prepared By: AHRL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	1	< 0.0200	mg/Kg	1	0.0200
Toluene	U	1	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	u	1	< 0.0200	${ m mg/Kg}$	1	0.0200
Xylene	U	1	< 0.0200	m mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	${f Amount}$	Recovery	Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.54	mg/Kg	1	2.00	77	70 - 130

Sample: 325496 - AH-3 0-1' 0.5' EB

Laboratory:

Prep Batch:

Midland

Chloride (Titration) Analysis: QC Batch: 100414 85093

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2013-04-11 2013-04-10

Prep Method: N/A Analyzed By: ARPrepared By: AR

RLParameter Flag Cert Result Units Dilution RLChloride 6010 mg/Kg 10 4.00

Sample: 325496 - AH-3 0-1' 0.5' EB

Laboratory:

Midland

Analysis: TPH DRO - NEW QC Batch: 100353 Prep Batch: 85031

Analytical Method: S 8015 D Date Analyzed: 2013-04-10 Sample Preparation: 2013-04-09

Prep Method: N/A Analyzed By: ĊW Prepared By: CW

Skye Trucking/COG/Santa Elena 19 Federal #14 112MC05166

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Eddy Co., NM

Parameter		Flag	Cert		RL sult	Units	Dilution	m RL
DRO		υ ι <50.0		0.0	mg/Kg	1	50.0	
Camponto	Flag	Cert	Result	Units	Dilution	Spike	Percent	Recovery Limits
Surrogate n-Tricosane	rag	Cere	116	mg/Kg	1	Amount 100	Recovery 116	70 - 130

Work Order: 13040904

Sample: 325496 - AH-3 0-1' 0.5' EB

Laboratory: Analysis:

QC Batch:

Midland TPH GRO 100358 Prep Batch: 85039

Analytical Method: S 8015 D Date Analyzed: 2013-04-10 Sample Preparation: 2013-04-10

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

RLParameter Flag Cert Result Units Dilution RL \overline{GRO} < 4.00 mg/Kg 4.00 Qs

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	${f Amount}$	Recovery	Limits
Trifluorotoluene (TFT)			1.64	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.57	mg/Kg	1	2.00	78	70 - 130

Sample: 325497 - AH-3 1-1.5' 0.5' EB

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 100414 Prep Batch: 85093

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2013-04-11 2013-04-10

Prep Method: N/A Analyzed By: ARPrepared By: AR

RLFlag Parameter Cert Result Units Dilution RLChloride 12800 4.00 mg/Kg 10

Sample: 325498 - AH-3 2-2.5' 0.5' EB

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 100415 Prep Batch: 85093

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2013-04-11 2013-04-10

Prep Method: N/A Analyzed By: ARPrepared By: AR.

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Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 13 of 28 Eddy Co., NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			12300	mg/Kg	10	4.00

Sample: 325499 - AH-3 3-3.5' 0.5' EB

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 100415 Prep Batch: 85093 Analytical Method: SM 4500-Cl B Date Analyzed: 2013-04-11 Sample Preparation: 2013-04-10

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			4000	mg/Kg	10	4.00

Sample: 325500 - AH-3 4-4.5' 0.5' EB

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 100415 Prep Batch: 85093 Analytical Method: SM 4500-Cl B Date Analyzed: 2013-04-11 Sample Preparation: 2013-04-10

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Sample: 325501 - AH-3 5-5.5' 0.5' EB

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 100415 Prep Batch: 85093 Analytical Method:
Date Analyzed:
Sample Preparation:

SM 4500-Cl B 2013-04-11 2013-04-10 Prep Method: N/A Analyzed By: AR Prepared By: AR

112MC05166

Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 14 of 28 Eddy Co., NM

Method Blanks

Method Blank (1)

QC Batch: 100353

QC Batch:

100353

Date Analyzed:

2013-04-10

Analyzed By: CW

Prep Batch: 85031

QC Preparation:

2013-04-09

Prepared By: CW

					M	DL		
Parameter		Fla	ıg	Cert	Res	sult	Units	RL
DRO				1	<(3.88	mg/Kg	50
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			102	mg/Kg	1	100	102	70 - 130

Method Blank (1)

QC Batch: 100355

QC Batch: Prep Batch: 85036

100355

Date Analyzed:

2013-04-10

Analyzed By: AH Prepared By: AH

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Benzene		1	< 0.00810	mg/Kg	0.02
Toluene		1	< 0.00750	mg/Kg	0.02
Ethylbenzene		1	< 0.00730	mg/Kg	0.02
Xylene		1	< 0.00700	mg/Kg	0.02

QC Preparation: 2013-04-10

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	$\mathbf{A}\mathbf{mount}$	Recovery	Limits
Triffuorotoluene (TFT)			1.81	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.65	mg/Kg	1	2.00	82	70 - 130

Method Blank (1)

QC Batch: 100358

QC Batch: Prep Batch: 85039

100358

Date Analyzed:

2013-04-10

Analyzed By: AH

QC Preparation: 2013-04-10

Prepared By: AH

112 MC05166

Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 15 of 28

Eddy Co., NM

Parameter	Flag		Cert		MDL Result		Units	RL
GRO	···		1		< 2.32		mg/Kg	4
Floring and	T21	Ct	D	TT :	Dilecti e	Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.70	mg/Kg	1	2.00	85	70 - 130
4-Bromofluorobenzene (4-BFB)			1.66	$_{ m mg/Kg}$	1	2.00	83	70 - 130

Method Blank (1)

QC Batch: 100413

QC Batch:

100413

Date Analyzed:

2013-04-11

2013-04-10

Analyzed By: AR

Prep Batch: 85093

QC Preparation: 2013-04-10

Prepared By: AR.

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Chloride			< 3.85	m mg/Kg	4

Method Blank (1)

QC Batch: 100414

QC Batch: Prep Batch:

100414 85093

Date Analyzed: QC Preparation: 2013-04-11

Analyzed By: AR Prepared By: AR.

MDLUnits RLParameter Flag Cert Result Chloride < 3.85 mg/Kg 4

Method Blank (1)

QC Batch: 100415

QC Batch: 100415Prep Batch: 85093

Date Analyzed: 2013-04-11 QC Preparation: 2013-04-10 Analyzed By: AR. Prepared By:

MDL

Parameter Flag Cert Result Units RLChloride < 3.85 mg/Kg 4

112MC05166

Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 16 of 28 Eddy Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:

Date Analyzed:

2013-04-10

Analyzed By: CW

Prep Batch: 85031

QC Preparation: 2013-04-09

Prepared By: CW

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1	254	mg/Kg	1	250	< 6.88	102	70 - 130

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1	261	mg/Kg	1	250	< 6.88	1()4	70 - 130	3	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	$_{ m Units}$	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	114	110	mg/Kg	1	100	114	110	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:

100355

Date Analyzed:

2013-04-10

Analyzed By: AH

Prep Batch: 85036

QC Preparation: 2013-04-10

Prepared By: AH

Param	\mathbf{F}	C	LCS Result	Units	Dil.	$egin{aligned} ext{Spike} \ ext{Amount} \end{aligned}$	Matrix Result	Rec.	$egin{array}{l} { m Rec.} \\ { m Limit} \end{array}$
Benzene		j	1.78	mg/Kg	1	2.00	< 0.00810	89	70 - 130
Toluene		1	1.74	mg/Kg	1	2.00	< 0.00750	87	70 - 130
Ethylbenzene		1	1.78	mg/Kg	1	2.00	< 0.00730	89	70 - 130
Xylene		1	5.32	mg/Kg	1	6.00	< 0.00700	89	70 - 130

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	1.90	mg/Kg	1	2.00	< 0.00810	95	70 - 130	6	20
Toluene		1	1.90	mg/Kg	1	2.00	< 0.00750	95	70 - 130	9	20
Ethylbenzene		1	1.91	m mg/Kg	1	2.00	< 0.00730	96	70 - 130	7	20
Xylene		1	5.68	mg/Kg	1	6.00	< 0.00700	95	70 - 130	6	20

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

Work Order: 13040904

Skye Trucking/COG/Santa Elena 19 Federal #14

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.84	1.86	mg/Kg	1	2.00	92	93	70 - 130
4-Bromofluorobenzene (4-BFB)	1.67	1.70	mg/Kg	1	2.00	84	85	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:

100358

Date Analyzed:

2013-04-10

Analyzed By: AH

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Eddy Co., NM

Prep Batch: 85039

QC Preparation: 2013-04-10

Prepared By: AH

			LCS			$_{ m Spike}$	Matrix		Rec.
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
GRO		1	17.0	mg/Kg	1	20.0	< 2.32	85	70 - 130

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1	18.7	mg/Kg	1	20.0	< 2.32	94	70 - 130	10	20

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

	LCS	LCSD			$_{ m Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.70	1.77	mg/Kg	1	2.00	85	88	70 - 130
4-Bromofluorobenzene (4-BFB)	1.70	1.75	mg/Kg	1	2.00	85	88	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 85093

100413

Date Analyzed:

2013-04-11 QC Preparation: 2013-04-10 Analyzed By: AR Prepared By: AR

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2480	mg/Kg	1	2500	< 3.85	99	85 - 115

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

			LCSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	F	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2650	mg/Kg	1	2500	< 3.85	106	85 - 115	7	20

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

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Work Order: 13040904

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Eddy Co., NM

Laboratory Control Spike (LCS-1)

100414

QC Batch: Prep Batch: 85093 Date Analyzed: QC Preparation: 2013-04-11 2013-04-10 Analyzed By: AR

Prepared By: AR

LCS Spike Matrix Rec. Amount Param F \mathbf{C} Result Units Dil. Result Limit Rec. Chloride 2680 mg/Kg 2500 <3.85 107 85 - 115

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

LCSD RPD Spike Matrix Rec. Param F \mathbf{C} Result Units Dil. Amount Result RPD Limit Rec. Limit Chloride 2500 mg/Kg 2500 < 3.85 100 85 - 115 20

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

Laboratory Control Spike (LCS-1)

QC Batch:

100415 Prep Batch: 85093

Date Analyzed: QC Preparation:

2013-04-11 2013-04-10 Analyzed By: AR.

Prepared By: AR.

LCS Spike Matrix Rec. С Param \mathbf{F} Result Units Dil. Amount Result Rec. Limit Chloride 2440 mg/Kg 2500 <3.85 98 85 - 115

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2600	mg/Kg	1	2500	< 3.85	104	85 - 115	6	20

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

Matrix Spike (MS-1) Spiked Sample: 325446

QC Batch: 100353 Prep Batch: 85031

Date Analyzed: QC Preparation:

2013-04-10 2013-04-09 Analyzed By: CW Prepared By: $^{\rm CW}$

MS Spike Matrix Rec. Param F \mathbf{C} Result Units Dil. Amount Result Rec. Limit DRO 408 mg/Kg 250 89 128 70 - 130

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

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Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 19 of 28 Eddy Co., NM

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		ı	403	mg/Kg	1	250	89	126	70 - 130	1	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	129	129	mg/Kg	1	100	129	129	70 - 130

Matrix Spike (MS-1) Spiked Sample: 325527

QC Batch: 100355 Prep Batch: 85036

Date Analyzed:

2013-04-10 QC Preparation: 2013-04-10

Analyzed By: AH Prepared By: AH

Param	F	С	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.83	mg/Kg	1	2.00	< 0.00810	92	70 - 130
Toluene		1	1.85	mg/Kg	1	2.00	< 0.00750	92	70 - 130
Ethylbenzene		1	1.92	mg/Kg	1	2.00	< 0.00730	96	70 - 130
Xylene		1	5.73	mg/Kg	1	6.00	< 0.00700	96	70 - 130

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	${f Amount}$	Result	Rec.	\mathbf{Limit}	RPD	Limit
Benzene		J	1.74	mg/Kg	1	2.00	< 0.00810	87	70 - 130	5	20
Toluene		1	1.76	mg/Kg	1	2.00	< 0.00750	88	70 - 130	5	20
Ethylbenzene		1	1.83	mg/Kg	1	2.00	< 0.00730	92	70 - 130	5	20
Xylene		1	5.45	mg/Kg	1	6.00	< 0.00700	91	70 - 130	5	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.86	1.85	mg/Kg	1	2	93	92	70 - 130
4-Bromofluorobenzene (4-BFB)	1.59	1.57	mg/Kg	1	2	80	78	70 - 130

Matrix Spike (MS-1) Spiked Sample: 325527

QC Batch: 100358 Prep Batch: 85039

Date Analyzed: 2013-04-10 QC Preparation: 2013-04-10 Analyzed By: AH Prepared By: AH

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Work Order: 13040904

Skye Trucking/COG/Santa Elena 19 Federal #14

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Eddy Co., NM

				MS			Spike	Matrix		Rec.
Param		F	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	Qя	Qs	1	13.0	mg/Kg	1	20.0	2.51	52	70 - 130

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

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	Qs	Qя	1	13.3	mg/Kg	1	20.0	2.51	54	70 - 130	2	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.64	1.62	mg/Kg	1	2	82	81	70 - 130
4-Bromofluorobenzene (4-BFB)	1.71	1.70	mg/Kg	1	2	86	85	70 - 130

Matrix Spike (MS-1)

Spiked Sample: 325487

QC Batch:

100413

Date Analyzed:

2013-04-11

Analyzed By: AR.

Prepared By: AR.

Prep Batch: 85093

QC Preparation:

2013-04-10

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride		-	2480	mg/Kg	5	2500	<19.2	99	78.9 - 121

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$	RPD	Limit
Chloride			2340	mg/Kg	5	2500	<19.2	94	78.9 - 121	6	20

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

Matrix Spike (MS-1)

Spiked Sample: 325497

QC Batch:

100414

Date Analyzed:

2013-04-11

Analyzed By: AR

Prep Batch: 85093

QC Preparation:

2013-04-10

Prepared By: AR

MSSpike Matrix Rec. Param F C Result Dil. Units Amount Result Limit Rec. Chloride 15400 12800 mg/Kg 10 2500 104 78.9 - 121

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

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Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 21 of 28

Eddy Co., NM

			MSD			Spike	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			15100	mg/Kg	1()	2500	12800	92	78.9 - 121	2	20

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

Matrix Spike (MS-1)

Spiked Sample: 325508

QC Batch:

100415

Date Analyzed:

2013-04-11

Analyzed By: AR.

Prep Batch: 85093

QC Preparation: 2013-04-10

Prepared By: AR

			MS			Spike	Matrix		Rec.
Param	F	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$
Chloride			2630	mg/Kg	5	2500	119	100	78.9 - 121

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
Chloride			2760	mg/Kg	5	2500	119	106	78.9 - 121	5	20

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

Work Order: 13040904

Skye Trucking/COG/Santa Elena 19 Federal #14

Page Number: 22 of 28 Eddy Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch: 100353

Date Analyzed: 2013-04-10

Analyzed By: CW

				$rac{ ext{CCVs}}{ ext{True}}$	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	250	100	80 - 120	2013-04-10

Standard (CCV-2)

QC Batch: 100353

Date Analyzed: 2013-04-10

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	257	103	80 - 120	2013-04-10

Standard (CCV-3)

QC Batch: 100353

Date Analyzed: 2013-04-10

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	284	114	80 - 120	2013-04-10

Standard (CCV-4)

QC Batch: 100353

Date Analyzed: 2013-04-10

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	266	106	80 - 120	2013-04-10

Work Order: 13040904

Skye Trucking/COG/Santa Elena 19 Federal #14

Standard (CCV-1)

QC Batch: 100355

Date Analyzed: 2013-04-10

CCVsCCVsCCVsPercent True Found Percent Recovery Date Param Flag Cert Units Conc. Conc. Recovery Limits Analyzed Benzene mg/kg 0.100 0.0986 99 80 - 120 2013-04-10 Toluene mg/kg0.1000.096496 80 - 120 2013-04-10 Ethylbenzene mg/kg0.1000.097497 80 - 120 2013-04-10 Xylene mg/kg 0.300 0.29197 80 - 120 2013-04-10

Standard (CCV-2)

QC Batch: 100355

Date Analyzed: 2013-04-10

Analyzed By: AH

Page Number: 23 of 28

Analyzed By: AH

Eddy Co., NM

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/kg	0.100	0.0984	98	80 - 120	2013-04-10
Toluene		1	$_{ m mg/kg}$	0.100	0.0965	96	80 - 120	2013-04-10
Ethylbenzene		1	mg/kg	0.100	0.0962	96	80 - 120	2013-04-10
Xylene		1	mg/kg	0.300	0.287	96	80 - 120	2013-04-10

Standard (CCV-3)

QC Batch: 100355

Date Analyzed: 2013-04-10

Analyzed By: AH

Analyzed By: AH

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/kg	0.100	0.0972	97	80 - 120	2013-04-10
Toluene		1	mg/kg	0.100	0.0950	95	80 - 120	2013-04-10
Ethylbenzene		1	mg/kg	0.100	0.0940	94	80 - 120	2013-04-10
Xylene		1	mg/kg	0.300	0.279	93	80 - 120	2013-04-10

Standard (CCV-1)

QC Batch: 100358

Date Analyzed: 2013-04-10

Page Number: 24 of 28 Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Eddy Co., NM

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	0.834	83	80 - 120	2013-04-10

Standard (CCV-2)

QC Batch: 100358 Date Analyzed: 2013-04-10 Analyzed By: AH

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	1.04	104	80 - 120	2013-04-10

Standard (CCV-3)

QC Batch: 100358 Date Analyzed: 2013-04-10 Analyzed By: AH

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	0.828	83	80 - 120	2013-04-10

Standard (CCV-1)

QC Batch: 100413 Analyzed By: AR Date Analyzed: 2013-04-11

CCVs**CCVs CCVs** Percent True Found Percent Recovery Date Param Flag Cert Units Conc. Conc. Recovery Limits Analyzed Chloride mg/Kg 100 98.9 99 85 - 115 2013-04-11

Standard (CCV-2)

QC Batch: 100413 Date Analyzed: 2013-04-11 Analyzed By: AR

Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 25 of 28

112MC05166

Eddy Co., NM

D	El	Cont	I Inda	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2013-04-11

Standard (CCV-1)

QC Batch: 100414

Date Analyzed: 2013-04-11

Analyzed By: AR

				CCVs True	CCVs Found	$\begin{array}{c} { m CCVs} \\ { m Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	$\operatorname{Limits}^{''}$	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2013-04-11

Standard (CCV-2)

QC Batch: 100414

Date Analyzed: 2013-04-11

Analyzed By: AR

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	99.6	100	85 - 115	2013-04-11

Standard (CCV-1)

QC Batch: 100415

Date Analyzed: 2013-04-11

Analyzed By: AR

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2013-04-11

Standard (CCV-2)

QC Batch: 100415

Date Analyzed: 2013-04-11

Analyzed By: AR

Work Order: 13040904

Skye Trucking/COG/Santa Elena 19 Federal #14

Page Number: 26 of 28 Eddy Co., NM

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	99.7	100	85 - 115	2013-04-11

Report Date: April 22, 2013 Work Order: 13040904 Page Number: 27 of 28 Skye Trucking/COG/Santa Elena 19 Federal #14 Eddy Co., NM

Appendix

112MC05166

Report Definitions

Name	Definition
$\overline{ ext{MDL}}$	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
$^{\rm C}$	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-12-4	Midland

Standard Flags

- Analyte detected in the corresponding method blank above the method detection
- H Analyzed out of hold time
- J Estimated concentration
- $\,$ Jb $\,$ The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
 - U The analyte is not detected above the SDL

Attachments

112MC05166

Work Order: 13040904 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 28 of 28 Eddy Co., NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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Work Order: 13081333 Report Date: August 16, 2013

Summary Report

Ike Tavarez

Tetra Tech

1910 N. Big Spring Street

Midland, TX 79705

Report Date: August 16, 2013

Page Number: 1 of 2

Work Order: 13081333

Project Location: Eddy Co., NM

Skye Trucking/COG/Santa Elena 19 Federal #14 Project Name:

Project Number: 112MC05166

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
338469	CS-1 (AH-2) ESW	soil	2013-07-23	00:00	2013-08-13
338470	CS-1 (AH-2) WSW	soil	2013-07-23	00:00	2013-08-13
338471	CS-1 (AH-2) SSW	soil	2013-07-23	00:00	2013-08-13
338472	CS-1 (AH-2) BH	soil	2013-07-23	00:00	2013-08-13
338473	CS-2 (AH-3) ESW	soil	2013-07-23	00:00	2013-08-13
338474	CS-2 (AH-3) WSW	soil	2013-07-23	00:00	2013-08-13
338475	CS-2 (AH-3) NSW	soil	2013-07-23	00:00	2013-08-13
338476	CS-2 (AH-3) BH	soil	2013-07-23	00:00	2013-08-13

Sample: 338469 - CS-1 (AH-2) ESW

Param	Flag	Result	Units	RL
Chloride		< 20.0	mg/Kg	4

Sample: 338470 - CS-1 (AH-2) WSW

Param	Flag	Result	${ m Units}$	RL
Chloride		666	mg/Kg	4

Sample: 338471 - CS-1 (AH-2) SSW

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Report Date: Augus	t 16, 2013	Work Order: 13081333	Page	Number: 2 of 2
Sample: 338472 -	CS-1 (AH-2) BH			
Param	Flag	Result	Units	RL
Chloride		224	mg/Kg	4
Sample: 338473 -	CS-2 (AH-3) ESW			
Param	Flag	Result	Units	RL
Chloride		74.5	mg/Kg	4
Sample: 338474 -	CS-2 (AH-3) WSW			
Param	Flag	Result	Units	RL
Chloride		24.8	mg/Kg	4
Sample: 338475 -	CS-2 (AH-3) NSW			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 338476 -	CS-2 (AH-3) BH			
Param	Flag	Result	Units	RL
Chloride	· · · · · · · · · · · · · · · · · · ·	513	mg/Kg	4

Work Order: 13081333 Page Number: 1 of 2 Report Date: August 16, 2013

Summary Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street Midland, TX 79705

Report Date: August 16, 2013

Work Order: 13081333

Project Location: Eddy Co., NM

Project Name:

Skye Trucking/COG/Santa Elena 19 Federal #14

Project Number: 112MC05166

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
338469	CS-1 (AH-2) ESW	soil	2013-07-23	00:00	2013-08-13
338470	CS-1 (AH-2) WSW	soil	2013-07-23	00:00	2013-08-13
338471	CS-1 (AH-2) SSW	soil	2013-07-23	00:00	2013-08-13
338472	CS-1 (AH-2) BH	soil	2013-07-23	00:00	2013-08-13
338473	CS-2 (AH-3) ESW	soil	2013-07-23	00:00	2013-08-13
338474	CS-2 (AH-3) WSW	soil	2013-07-23	00:00	2013-08-13
338475	CS-2 (AH-3) NSW	soil	2013-07-23	00:00	2013-08-13
338476	CS-2 (AH-3) BH	soil	2013-07-23	00:00	2013-08-13

Sample: 338469 - CS-1 (AH-2) ESW

Param	Flag	Result	Units	RL
Chloride		< 20.0	mg/Kg	4

Sample: 338470 - CS-1 (AH-2) WSW

Param	Flag	Result	Units	RL
Chloride		666	${ m mg/Kg}$	4

Sample: 338471 - CS-1 (AH-2) SSW

Param	Flag	Result	Units	RL
<u>Ch</u> loride		< 20.0	m mg/Kg	4

Report Date: Augu	ust 16, 2013	Work Order: 13081333	Page	Number: 2 of 2
Sample: 338472	- CS-1 (AH-2) BH			
Param	Flag	Result	Units	RL
Chloride		224	mg/Kg	4
Sample: 338473	- CS-2 (AH-3) ESW			
Param	Flag	Result	Units	RL
Chloride		74.5	mg/Kg	4
Sample: 338474	- CS-2 (AH-3) WSW			
Param	Flag	Result	Units	RL
Chloride		24.8	mg/Kg	4
Sample: 338475	- CS-2 (AH-3) NSW			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 338476	- CS-2 (AH-3) BH			
Sample: 338476 Param	- CS-2 (AH-3) BH Flag	Result	Units	m RL



6701 Aberdeen Avenue, Suite 9 200 East Sunsel Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock. El Paso. Texas 79922 Texas 79703 Midland. Carroldon. Texas 75008

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

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

972-242-7750

E-Mail: lab@traceanalysis.com WEB! www.traceanalysis.com

Certifications

NCTRCA NELAP DoD LELAP WBE HUB DBE Oklahoma ISO 17025 Kansas

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street

Midland, TX, 79705

Report Date: August 16, 2013

Work Order: 13081333

Project Location: Eddy Co., NM

Skye Trucking/COG/Santa Elena 19 Federal #14 Project Name:

Project Number: 112MC05166

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
338469	CS-1 (AH-2) ESW	soil	2013-07-23	00:00	2013-08-13
338470	CS-1 (AH-2) WSW	soil	2013-07-23	00:00	2013-08-13
338471	CS-1 (AH-2) SSW	soil	2013-07-23	00:00	2013-08-13
338472	CS-1 (AH-2) BH	soil	2013-07-23	00:00	2013-08-13
338473	CS-2 (AH-3) ESW	soil	2013-07-23	00:00	2013-08-13
338474	CS-2 (AH-3) WSW	soil	2013-07-23	00:00	2013-08-13
338475	CS-2 (AH-3) NSW	soil	2013-07-23	00:00	2013-08-13
338476	CS-2 (AH-3) BH	soil	2013-07-23	00:00	2013-08-13

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

Dr. Blair Leftwich, Director

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

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Sample 338471 (CS-1 (AH-2) SSW)	
Sample 338472 (CS-1 (AH-2) BH)	Ę
Sample 338473 (CS-2 (AH-3) ESW)	(
Sample 338474 (CS-2 (AH-3) WSW)	6
Sample 338475 (CS-2 (AH-3) NSW)	(
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Case Narrative

Samples for project Skye Trucking/COG/Santa Elena 19 Federal #14 were received by TraceAnalysis, Inc. on 2013-08-13 and assigned to work order 13081333. Samples for work order 13081333 were received intact at a temperature of 30.4 C. Samples were not on ice.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	88138	2013-08-14 at 13:41	104084	2013-08-15 at 16:12
Chloride (Titration)	SM 4500-Cl B	88138	2013-08-14 at 13:41	104085	2013-08-15 at 16:13

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 13081333 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: August 16, 2013 112MC05166

Work Order: 13081333 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 5 of 13 Eddy Co., NM

Analytical Report

Sample: 338469 - CS-1 (AH-2) ESW

Laboratory:

Midland

Chloride (Titration) Analysis:

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

QC Batch: 104084

Date Analyzed:

2013-08-15

Analyzed By: AR

Prep Batch: 88138

Sample Preparation: 2013-08-14

Prepared By:

AR

RL

Parameter Cert Result Units RLFlag Dilution Chloride <20.0 mg/Kg 4.00U

Sample: 338470 - CS-1 (AH-2) WSW

Laboratory:

Midland

Analysis:

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

QC Batch:

104084

Date Analyzed:

2013-08-15

Analyzed By: AR.

Prep Batch:

88138

Sample Preparation: 2013-08-14 Prepared By: AR

RL

Parameter Flag Cert Result Units Dilution RLChloride 666 4.00 mg/Kg

Sample: 338471 - CS-1 (AH-2) SSW

Laboratory:

Midland

Analysis: QC Batch:

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

Prep Batch: 88138

104084

Date Analyzed: 2013-08-15 Sample Preparation: 2013-08-14

Analyzed By: AR. Prepared By: AR.

ът

			R.L			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 20.0	mg/Kg	5	4.00

112MC05166

Work Order: 13081333 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 6 of 13 Eddy Co., NM

Sample: 338472 - CS-1 (AH-2) BH

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 104084 Analytical Method:
Date Analyzed:

SM 4500-Cl B 2013-08-15 Prep Method: N/A Analyzed By: AR

Prep Batch: 88138

Sample Preparation: 2013-08-14

Prepared By: AR

RL

Parameter Flag Cert
Chloride

Result Units
224 mg/Kg

Dilution RL 5 4.00

Sample: 338473 - CS-2 (AH-3) ESW

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 104084 Analytical Method:

SM 4500-Cl B 2013-08-15 Prep Method: N/A Analyzed By: AR

Prep Batch:

88138

Date Analyzed: 2013-08-15 Sample Preparation: 2013-08-14

Prepared By: AR

00190

RL Cert Result

Parameter Chloride

Flag Cert

esult Units 74.5 mg/Kg
 Dilution
 RL

 5
 4.00

Sample: 338474 - CS-2 (AH-3) WSW

Laboratory:

Prep Batch:

Midland

Analysis: Chi QC Batch: 104

Chloride (Titration)

104084 88138 Analytical Method:
Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2013-08-15 2013-08-14 Prep Method: N/A Analyzed By: AR Prepared By: AR

RL

Sample: 338475 - CS-2 (AH-3) NSW

Laboratory:

Midland

Analysis: Chloride (Titration)
QC Batch: 104084

Analytical Method:
Date Analyzed:

 $\begin{array}{c} {\rm SM\ 4500\text{-}Cl\ B} \\ 2013\text{-}08\text{-}15 \end{array}$

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

QC Batch: Prep Batch:

: 88138

Sample Preparation:

2013-08-14 Prepared By:

112MC05166

Work Order: 13081333

Skye Trucking/COG/Santa Elena 19 Federal #14

Page Number: 7 of 13

Eddy Co., NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 20.0	mg/Kg	5	4.00

Sample: 338476 - CS-2 (AH-3) BH

Laboratory:

Midland

Analysis:

QC Batch: 104085

Chloride (Titration)

Prep Batch: 88138

Analytical Method:

Date Analyzed:

SM 4500-Cl B 2013-08-15

2013-08-14

Prep Method: N/A ARAnalyzed By: Prepared By: AR

RL

Sample Preparation:

Parameter Flag Cert Result Units Dilution RL513 Chloride mg/Kg 5 4.00

112MC05166

Work Order: 13081333 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 8 of 13

Eddy Co., NM

Method Blanks

Method Blank (1)

QC Batch: 104084

QC Batch: 104084

Date Analyzed: 2013-08-15

Analyzed By: AR

Prep Batch: 88138

QC Preparation: 2013-08-14

Prepared By: AR

Parameter Chloride Cert

Result <3.85

MDL

Units mg/Kg

Method Blank (1)

QC Batch: 104085

Flag

QC Batch: 104085

Date Analyzed: 2013-08-15

Analyzed By: AR

Prep Batch: 88138

QC Preparation: 2013-08-14

Cert

Prepared By: AR

Parameter

Chloride

Flag

MDL Result

<3.85

Units

mg/Kg

RL 4

RL

4

Work Order: 13081333

Skye Trucking/COG/Santa Elena 19 Federal #14

Page Number: 9 of 13 Eddy Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:

112MC05166

104084

Date Analyzed:

2013-08-15

Analyzed By: AR

Prep Batch: 88138

QC Preparation: 2013-08-14

Prepared By: AR

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2370	mg/Kg	1	2500	< 3.85	95	89.7 - 115.9

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$_{ m Limit}$
Chloride			2480	mg/Kg	1	2500	< 3.85	99	89.7 - 115.9	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch:

104085

Date Analyzed:

2013-08-15

Analyzed By: AR.

Prep Batch: 88138

QC Preparation:

2013-08-14

Prepared By: AR

				$_{ m LCS}$			Spike	Matrix		Rec.
Param	1	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
Chloride				2550	mg/Kg	1	2500	< 3.85	102	89.7 - 115.9

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

			LCSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2430	mg/Kg	1	2500	< 3.85	97	89.7 - 115.9	5	20

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

Matrix Spike (MS-1) Spiked Sample: 338475

QC Batch: Date Analyzed: 104084 2013-08-15 Analyzed By: AR Prep Batch: 88138 QC Preparation: 2013-08-14 Prepared By: AR

112MC05166

Work Order: 13081333 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 10 of 13

Eddy Co., NM

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	$\mathbf{A}\mathbf{mount}$	Result	Rec.	Limit
Chloride			2270	m mg/Kg	5	2500	<19.2	91	78.9 - 121

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

			MSD			Spike	Matrix		Rec.		RPD
Param-	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2400	mg/Kg	5	2500	<19.2	96	78.9 - 121	6	20

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

Matrix Spike (MS-1)

Spiked Sample: 338476

QC Batch: 104085

Date Analyzed:

2013-08-15

Analyzed By: AR

Prep Batch: 88138

QC Preparation: 2013-08-14

Prepared By: AR

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	$^{\rm C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2620	mg/Kg	5	2500	513	84	78.9 - 121

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

	MSD					Spike	Matrix		Rec.				
Param	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit		
Chloride			2500	mg/Kg	5	2500	513	79	78.9 - 121	5	20		

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

Report Date: August 16, 2013 112MC05166

Work Order: 13081333

Skye Trucking/COG/Santa Elena 19 Federal #14

Page Number: 11 of 13 Eddy Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch: 104084

Date Analyzed: 2013-08-15

Analyzed By: AR.

				CCVs	CCVs	CCVs	Percent	Data
				True	Found	Percent	Recovery	\mathbf{Date}
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2013-08-15

Standard (CCV-2)

QC Batch: 104084

Date Analyzed: 2013-08-15

Analyzed By: AR

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	99.7	100	85 - 115	2013-08-15

Standard (CCV-1)

QC Batch: 104085

Date Analyzed: 2013-08-15

Analyzed By: AR

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2013-08-15

Standard (CCV-2)

QC Batch: 104085

Date Analyzed: 2013-08-15

Analyzed By: AR

			•	CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	99.9	100	85 - 115	2013-08-15

Page Number: 12 of 13 Eddy Co., NM

Appendix

Report Definitions

Name	Definition
$\overline{\mathrm{MDL}}$	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
 - U The analyte is not detected above the SDL

Attachments

Report Date: August 16, 2013 112MC05166 Work Order: 13081333 Skye Trucking/COG/Santa Elena 19 Federal #14 Page Number: 13 of 13 Eddy Co., NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

An	Analysis Request of Chain of Custody Record								PAGE: OF:																							
				6												ANALYSIS REQUEST (Circle or Specify Method No.)																
1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946																	35 (Ext. to C35)	Cd Cr Pb Hg Se	Cd Vr Pd Hg Se										TDS			
CLIENT NAME: SITE MANAGE						R: Tquarez		NERS			SER		VΕ	1	TX1005	As Ba C	a		<u>.</u>	700/00	270/62						ns, pH,					
PROJECT NO.: 1/2 m C 05/66					OJE)G	ECT -	NAME: Santa Elena I	9 Fed # 1		CONTA							MOD.	A 6A SI	Ils Ag A	sel	Volatile	,0/0/0	ni. Vol. 8	/608	80	ا	S S	stos)	1s/Catio			
· LAB I.D. NUMBER	DAT 2017	E		MATRIX	COMP	GRAB	SAMPL	Tavarez G Fed # 1 Eddy 10, NN EIDENTIFICATION		NUMBER OF CONTAINERS	HCL	HNO3	ICE	NONE		BTEX 8021B	TPH 8015	RCRA Meta	TCLP Metals Ag A	TCLP Volatiles	TCLP Semi Volatiles	RCI GC MS Vol. 8240/8250/624	GC.MS Sen	PCB's 8080	Pest. 808/608	Samuel Sa	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS			
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SAMPLE CONDITION WHEN RECEIVED: DO 4 MALCIA d. all																																
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