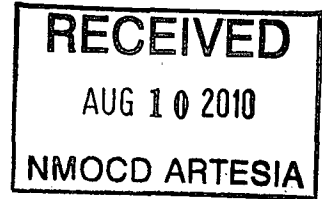




TETRA TECH



July 15, 2010

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

Re: Closure Report for the COG Operating LLC., Electra North Federal Tank Battery, Unit B, Section 10, Township 17 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 Electra North Federal Tank Battery, Unit B, Section 10, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.853001 °, W 103.959150°. 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 March 13, 2010, and released approximately 160 barrels of oil from a plugged equalizer. To alleviate the problem, COG personnel repaired the equalizer. 145 barrels of standing fluids were recovered. The entire spill was contained within the facility berm walls. The impacted area measured approximately 115' long by 55' wide. The initial and final C-141 forms are enclosed in Appendix C.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3546

www.tetrattech.com



Groundwater

No water wells were listed within Section 10. According to the NMOCD Eddy County groundwater map, the average depth to groundwater in this area is greater than 300' below surface. The water data is shown in Appendix B.

Regulatory

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

Soil Assessment and Analytical Results

On April 7, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of eight (8) auger holes (AH-1 through AH-8) 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 B. 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 with the exceptions of AH-2 at 0-1' (0.5' BEB) of 86.47 BTEX, AH-6 at 0-1' (0.5' BEB) of 68.64 BTEX, AH-7 at 0-1' (0.5 BEB) of 6,210 mg/kg TPH, and AH-8 at 1-1.5' (0.5 BEB) of 5,480 mg/kg TPH. Chloride concentrations for all auger holes were <200 mg/kg.



TETRA TECH

Remediation and Conclusion

On May 4, 2010, Tetra Tech personnel supervised the removal of impacted material at AH-2, AH-6, and AH-7 to a depth of 0-1' bgs. The area near AH-8 was excavated down to 2.0' bgs to remove the elevated TPH and BTEX level. The excavated soils, approximately 80 cubic yards, were transported offsite for disposal at Controlled Recovery, Inc. of Carlsbad, New Mexico.

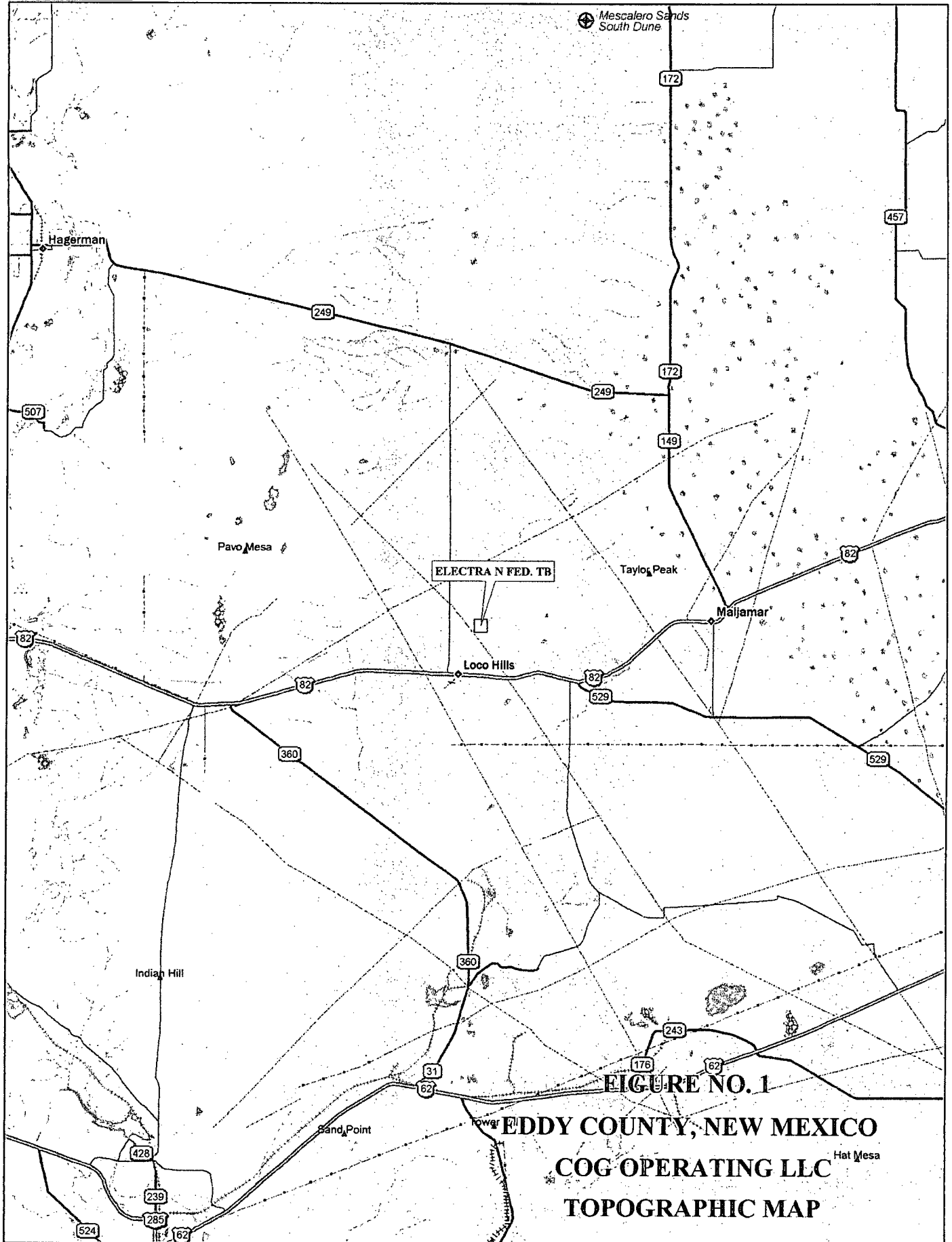
Based on the results, COG requests closure of the site. The C-141 (Final) is included in Appendix C. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Kim Dorey
Staff Geologist

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

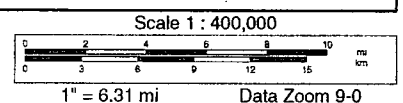
FIGURES



Data use subject to license.

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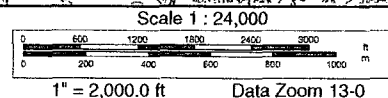


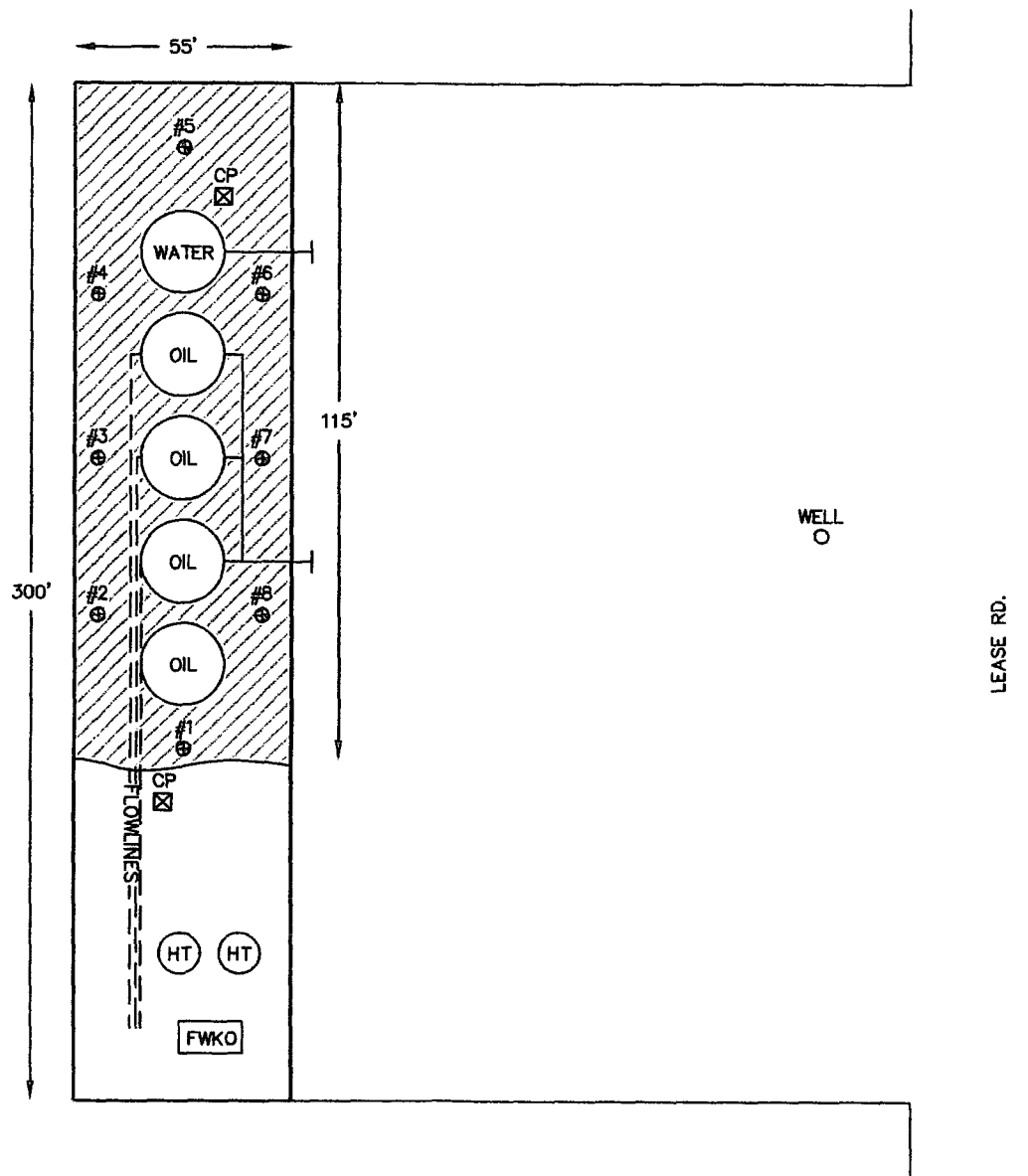


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☒ SPILL AREA
 ⊕ SAMPLE LOCATIONS

NOT TO SCALE

DATE:
 4/21/10
 DWN. BY:
 JJ
 FILE:
 MW/COG/0400488
 ELECTRA N FED. TB

FIGURE NO. 3
EDDY COUNTY, NEW MEXICO
COG OPERATING LLC
ELECTRA N FED. TB
TETRA TECH, INC. MIDLAND, TEXAS

TABLE

Table 1
COG Operating LLC.
ELECTRA N. FEDERAL TANK BATTERY
EDDY COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
AH-1	4/7/2010	0-1'	1'	X		34.7	312	346.7	-	-	-	-	<200
		1-1.5'	1'	X		-	-	-	-	-	-	-	<200
AH-2	4/7/2010	0-1'	0.5'		X	2,060	1,500	3,560	1.63	19.9	8.64	56.3	<200
		1-1.5'	0.5'	X		-	-	-	<0.500	1.47	1.54	18.1	<200
AH-3	4/7/2010	0-1'	0.5'	X		144	429	573	-	-	-	-	<200
		1-1.5'	0.5'	X		-	-	-	-	-	-	-	<200
AH-4	4/7/2010	0-1'	0.5'	X		1,010	222	1,232	-	-	-	-	<200
		1-1.5'	0.5'	X		-	-	-	-	-	-	-	<200
AH-5	4/7/2010	0-1'	2'	X		<1.00	<50.0	<50.0	-	-	-	-	<200
	4/7/2010	1-1.5'	2'	X		-	-	-	-	-	-	-	<200
AH-6	4/7/2010	0-1'	0.5'		X	1,690	1,530	3,220	2.14	13.7	16.8	36.0	<200
		1-1.5'	0.5'	X		-	-	-	<0.0100	<0.0100	<0.0100	<0.0100	<200
AH-7	4/7/2010	0-1'	0.5'		X	2,640	3,570	6,210	2.89	36.2	44.0	67.8	<200
		1-1.5'	0.5'	X		-	-	-	<0.0100	<0.0100	<0.0100	<0.0100	<200
AH-8	4/7/2010	0-1'	0.5'		X	2,730	4,200	6,930	3.49	35.2	44.4	73.8	<200
		1-1.5'	0.5'		X	1,220	4,260	5,480	1.58	5.80	7.93	28.4	<200
		2-2.5'	0.5'	X		<1.00	<50.0	<50.0	-	-	-	-	-

BEB Below Excavation Bottom

(-) Not Analyzed

 Excavated and hauled for disposal

APPENDIX A

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	ELECTRA NORTH FEDERAL TANK BATTERY	Facility Type	Tank Battery
Surface Owner	Federal	Mineral Owner	
		Lease No.	NM 0467931

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	10	17S	30E					EDDY

Latitude 32 51.190 Longitude 103 57.540

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	160bbls	Volume Recovered	145bbls
Source of Release	Equalizer	Date and Hour of Occurrence	03/13/2010	Date and Hour of Discovery	03/13/2010
Was Immediate Notice Given?	☒ Yes ☐ No ☒ Not Required	If YES, To Whom?	Mike Bratcher - OCD		
By Whom?	Josh Russo	Date and Hour	03/15/2010	4:59 p.m.	
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

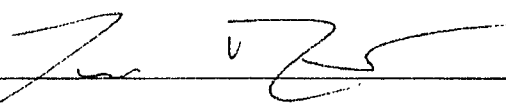
Describe Cause of Problem and Remedial Action Taken.*

The cause of the release was due to a plugged equalizer. The plugged equalizer has been repaired.

Describe Area Affected and Cleanup Action Taken.*

The entire release was fully contained inside the dike walls of the tank battery. 160bbls of oil was initially released, and 145bbls were recovered by a vacuum truck. The contaminated dirt and gravel has been removed from the spill area. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD/BLM for approval prior to any significant remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Josh Russo		Approved by District Supervisor:	
Title: HSE Coordinator		Approval Date:	Expiration Date:
E-mail Address: jrusso@conchoresources.com		Conditions of Approval:	
Date: 03/18/2010 Phone: 432-212-2399		Attached ☐	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	COG Operating LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 1300 Midland, Texas 79701	Telephone No.	(432) 685-4332
Facility Name	Electra North Federal Tank Battery	Facility Type	Tank Battery

Surface Owner: Federal	Mineral Owner	Lease No. NM 0467931
------------------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	10	17S	30E					Eddy

Latitude N 32.853001° Longitude W 103.959150°

NATURE OF RELEASE

Type of Release: Oil	Volume of Release 160 bbls	Volume Recovered 145 bbls
Source of Release: Equalizer	Date and Hour of Occurrence 3/13/10	Date and Hour of Discovery 3/13/2010
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom? Josh Russo	Date and Hour 3/15/10 4:59 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
The cause of the release was due to a plugged equalizer. The plugged equalizer has been repaired.

Describe Area Affected and Cleanup Action Taken.*
Tetra Tech inspected site and collected samples to define spills extent. Soil that exceeded RRAL was removed and hauled away for proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Ike Tavarez		Approved by District Supervisor:	
Title: Project Manager	Approval Date:	Expiration Date:	
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:		Attached ☐
Date:	Phone: (432) 682-4559		

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
COG - Electra North
Eddy County, New Mexico

16 South			29 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
110	29	28	27	26	25
30	32	33	34	35	36

16 South			30 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	288
19	20	21	22	23	113
30	29	28	27	26	25
31	32	33	34	35	36

17 South			29 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	80	23
30	29	210	28	27	26
31	32	208	33	34	35

17 South			30 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

17 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			29 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			30 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	400
19	20	21	22	23	317
30	29	28	27	26	25
31	32	33	34	35	36

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data

APPENDIX C

Summary Report

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

Report Date: April 20, 2010

Work Order: 10041206



Project Location: Eddy Co., NM
Project Name: COG/Electra N. Federal TB
Project Number: 114-6400488

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
228118	AH-1 0-1' 1' BEB	soil	2010-04-07	00:00	2010-04-09
228119	AH-1 1-1.5' 1' BEB	soil	2010-04-07	00:00	2010-04-09
228122	AH-2 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228123	AH-2 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228127	AH-3 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228128	AH-3 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228135	AH-4 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228136	AH-4 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228142	AH-5 0-1' 2'BEB	soil	2010-04-07	00:00	2010-04-09
228143	AH-5 1-1.5' 2'BEB	soil	2010-04-07	00:00	2010-04-09
228145	AH-6 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228146	AH-6 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228151	AH-7 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228152	AH-7 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228159	AH-8 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228160	AH-8 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228161	AH-8 2-2.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
228118 - AH-1 0-1' 1' BEB					312	34.7
228122 - AH-2 0-1' 0.5' BEB	1.63	19.9	8.64	56.3	1500	2060
228123 - AH-2 1-1.5' 0.5' BEB	<0.500	1.47	1.54	18.1		
228127 - AH-3 0-1' 0.5' BEB					429	144
228135 - AH-4 0-1' 0.5' BEB					222	1010
228142 - AH-5 0-1' 2'BEB					<50.0	<1.00
228145 - AH-6 0-1' 0.5' BEB	2.14	13.7	16.8	36.0	1530	1690
228146 - AH-6 1-1.5' 0.5' BEB	<0.0100	<0.0100	<0.0100	<0.0100		

continued ...

... continued

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
228151 - AH-7 0-1' 0.5' BEB	2.89	36.2	44.0	67.8	3570	2640
228152 - AH-7 1-1.5' 0.5' BEB	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
228159 - AH-8 0-1' 0.5' BEB	3.49	35.2	44.4	73.8	4200	2730
228160 - AH-8 1-1.5' 0.5' BEB	1.58	5.80	7.93	28.4	4260	1220
228161 - AH-8 2-2.5' 0.5' BEB					<50.0	<1.00

Sample: 228118 - AH-1 0-1' 1' BEB

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

Sample: 228119 - AH-1 1-1.5' 1' BEB

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

Sample: 228122 - AH-2 0-1' 0.5' BEB

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

Sample: 228123 - AH-2 1-1.5' 0.5' BEB

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

Sample: 228127 - AH-3 0-1' 0.5' BEB

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

Sample: 228128 - AH-3 1-1.5' 0.5' BEB

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

Sample: 228135 - AH-4 0-1' 0.5' BEB

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

Sample: 228136 - AH-4 1-1.5' 0.5' BEB

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

Sample: 228142 - AH-5 0-1' 2'BEB

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

Sample: 228143 - AH-5 1-1.5' 2'BEB

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

Sample: 228145 - AH-6 0-1' 0.5' BEB

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

Sample: 228146 - AH-6 1-1.5' 0.5' BEB

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

Sample: 228151 - AH-7 0-1' 0.5' BEB

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

Sample: 228152 - AH-7 1-1.5' 0.5' BEB

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

Sample: 228159 - AH-8 0-1' 0.5' BEB

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

Sample: 228160 - AH-8 1-1.5' 0.5' BEB

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



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, 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
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: April 20, 2010

Work Order: 10041206



Project Location: Eddy Co., NM
Project Name: COG/Electra N. Federal TB
Project Number: 114-6400488

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
228118	AH-1 0-1' 1' BEB	soil	2010-04-07	00:00	2010-04-09
228119	AH-1 1-1.5' 1' BEB	soil	2010-04-07	00:00	2010-04-09
228122	AH-2 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228123	AH-2 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228127	AH-3 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228128	AH-3 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228135	AH-4 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228136	AH-4 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228142	AH-5 0-1' 2' BEB	soil	2010-04-07	00:00	2010-04-09
228143	AH-5 1-1.5' 2' BEB	soil	2010-04-07	00:00	2010-04-09

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
228145	AH-6 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228146	AH-6 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228151	AH-7 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228152	AH-7 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228159	AH-8 0-1' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228160	AH-8 1-1.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09
228161	AH-8 2-2.5' 0.5' BEB	soil	2010-04-07	00:00	2010-04-09

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 38 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

Standard Flags

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

Case Narrative

Samples for project COG/Electra N. Federal TB were received by TraceAnalysis, Inc. on 2010-04-09 and assigned to work order 10041206. Samples for work order 10041206 were received intact at a temperature of 14.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	59128	2010-04-13 at 08:30	69075	2010-04-13 at 10:16
BTEX	S 8021B	59169	2010-04-14 at 10:00	69156	2010-04-14 at 14:02
Chloride (Titration)	SM 4500-Cl B	59096	2010-04-13 at 09:46	69135	2010-04-15 at 11:43
Chloride (Titration)	SM 4500-Cl B	59097	2010-04-13 at 09:47	69136	2010-04-15 at 11:44
Chloride (Titration)	SM 4500-Cl B	59098	2010-04-13 at 09:47	69137	2010-04-15 at 11:45
TPH DRO - NEW	Mod. 8015B	59075	2010-04-12 at 13:06	69021	2010-04-12 at 13:06
TPH DRO - NEW	Mod. 8015B	59200	2010-04-15 at 15:00	69155	2010-04-15 at 15:00
TPH DRO - NEW	Mod. 8015B	59263	2010-04-19 at 14:16	69232	2010-04-19 at 14:16
TPH GRO	S 8015B	59128	2010-04-13 at 08:30	69076	2010-04-13 at 10:43
TPH GRO	S 8015B	59169	2010-04-14 at 10:00	69157	2010-04-14 at 14:29
TPH GRO	S 8015B	59223	2010-04-16 at 10:50	69190	2010-04-17 at 05:30

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 10041206 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 4 of 38
Eddy Co., NM

Analytical Report

Sample: 228118 - AH-1 0-1' 1' BEB

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-04-15	Analyzed By:	AR
QC Batch:	69135	Sample Preparation:	2010-04-13	Prepared By:	AR
Prep Batch:	59096				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228118 - AH-1 0-1' 1' BEB

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-04-12	Analyzed By:	kg
QC Batch:	69021	Sample Preparation:	2010-04-12	Prepared By:	kg
Prep Batch:	59075				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		312	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		122	mg/Kg	1	100	122	70 - 130

Sample: 228118 - AH-1 0-1' 1' BEB

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-04-13	Analyzed By:	AG
QC Batch:	69076	Sample Preparation:	2010-04-13	Prepared By:	AG
Prep Batch:	59128				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		34.7	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.05	mg/Kg	1	2.00	102	50.3 - 155
4-Bromofluorobenzene (4-BFB)	¹	2.70	mg/Kg	1	2.00	135	51.7 - 131.1

¹ High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 5 of 38
Eddy Co., NM

Sample: 228119 - AH-1 1-1.5' 1' BEB

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	69135	Date Analyzed:	2010-04-15
Prep Batch:	59096	Sample Preparation:	2010-04-13
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228122 - AH-2 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	BTEX	Analytical Method:	S 8021B
QC Batch:	69075	Date Analyzed:	2010-04-13
Prep Batch:	59128	Sample Preparation:	2010-04-13
		Prep Method:	S 5035
		Analyzed By:	AG
		Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.63	mg/Kg	50	0.0100
Toluene		19.9	mg/Kg	50	0.0100
Ethylbenzene		8.64	mg/Kg	50	0.0100
Xylene		56.3	mg/Kg	50	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		49.4	mg/Kg	50	50.0	99	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		60.0	mg/Kg	50	50.0	120	43.1 - 158.4

Sample: 228122 - AH-2 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	69135	Date Analyzed:	2010-04-15
Prep Batch:	59096	Sample Preparation:	2010-04-13
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 6 of 38
Eddy Co., NM

Sample: 228122 - AH-2 0-1' 0.5' BEB

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-04-12	Analyzed By:	kg
QC Batch:	69021	Sample Preparation:	2010-04-12	Prepared By:	kg
Prep Batch:	59075				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1500	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	²	262	mg/Kg	1	100	262	70 - 130

Sample: 228122 - AH-2 0-1' 0.5' BEB

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-04-13	Analyzed By:	AG
QC Batch:	69076	Sample Preparation:	2010-04-13	Prepared By:	AG
Prep Batch:	59128				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2060	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		49.6	mg/Kg	50	50.0	99	50.3 - 155
4-Bromofluorobenzene (4-BFB)		59.8	mg/Kg	50	50.0	120	51.7 - 131.1

Sample: 228123 - AH-2 1-1.5' 0.5' BEB

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2010-04-14	Analyzed By:	AG
QC Batch:	69156	Sample Preparation:	2010-04-14	Prepared By:	AG
Prep Batch:	59169				

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.500	mg/Kg	50	0.0100
Toluene		1.47	mg/Kg	50	0.0100
Ethylbenzene		1.54	mg/Kg	50	0.0100
Xylene		18.1	mg/Kg	50	0.0100

²High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 7 of 38
Eddy Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		48.5	mg/Kg	50	50.0	97	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		58.8	mg/Kg	50	50.0	118	43.1 - 158.4

Sample: 228123 - AH-2 1-1.5' 0.5' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 69135 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59096 Sample Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228127 - AH-3 0-1' 0.5' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59097 Sample Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228127 - AH-3 0-1' 0.5' BEB

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 69021 Date Analyzed: 2010-04-12 Analyzed By: kg
Prep Batch: 59075 Sample Preparation: 2010-04-12 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		429	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	³	144	mg/Kg	1	100	144	70 - 130

³High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 8 of 38
Eddy Co., NM

Sample: 228127 - AH-3 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	TPH GRO	Analytical Method:	S 8015B
QC Batch:	69076	Date Analyzed:	2010-04-13
Prep Batch:	59128	Sample Preparation:	2010-04-13
		Prep Method:	S 5035
		Analyzed By:	AG
		Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		144	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.1	mg/Kg	10	10.0	101	50.3 - 155
4-Bromofluorobenzene (4-BFB)		10.8	mg/Kg	10	10.0	108	51.7 - 131.1

Sample: 228128 - AH-3 1-1.5' 0.5' BEB

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	69136	Date Analyzed:	2010-04-15
Prep Batch:	59097	Sample Preparation:	2010-04-13
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228135 - AH-4 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	69136	Date Analyzed:	2010-04-15
Prep Batch:	59097	Sample Preparation:	2010-04-13
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228135 - AH-4 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	TPH DRO - NEW	Analytical Method:	Mod. 8015B
QC Batch:	69021	Date Analyzed:	2010-04-12
Prep Batch:	59075	Sample Preparation:	2010-04-12
		Prep Method:	N/A
		Analyzed By:	kg
		Prepared By:	kg

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 9 of 38
Eddy Co., NM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		222	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		106	mg/Kg	1	100	106	70 - 130

Sample: 228135 - AH-4 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	TPH GRO	Analytical Method:	S 8015B
QC Batch:	69076	Date Analyzed:	2010-04-13
Prep Batch:	59128	Sample Preparation:	2010-04-13
		Prep Method:	S 5035
		Analyzed By:	AG
		Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1010	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.6	mg/Kg	20	20.0	103	50.3 - 155
4-Bromofluorobenzene (4-BFB)	4	28.2	mg/Kg	20	20.0	141	51.7 - 131.1

Sample: 228136 - AH-4 1-1.5' 0.5' BEB

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	69136	Date Analyzed:	2010-04-15
Prep Batch:	59097	Sample Preparation:	2010-04-13
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228142 - AH-5 0-1' 2'BEB

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	69136	Date Analyzed:	2010-04-15
Prep Batch:	59097	Sample Preparation:	2010-04-13
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

continued ...

⁴High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 10 of 38
Eddy Co., NM

sample 228142 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228142 - AH-5 0-1' 2'BEB

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 69021 Date Analyzed: 2010-04-12 Analyzed By: kg
Prep Batch: 59075 Sample Preparation: 2010-04-12 Prepared By: kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		84.8	mg/Kg	1	100	85	70 - 130

Sample: 228142 - AH-5 0-1' 2'BEB

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 69076 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 Sample Preparation: 2010-04-13 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	2.00	56	50.3 - 155
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	2.00	62	51.7 - 131.1

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 11 of 38
Eddy Co., NM

Sample: 228143 - AH-5 1-1.5' 2'BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59097 Sample Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		<200	mg/Kg	50	4.00

Sample: 228145 - AH-6 0-1' 0.5' BEB

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 69075 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 Sample Preparation: 2010-04-13 Prepared By: AG

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		2.14	mg/Kg	100	0.0100
Toluene		13.7	mg/Kg	100	0.0100
Ethylbenzene		16.8	mg/Kg	100	0.0100
Xylene		36.0	mg/Kg	100	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		98.0	mg/Kg	100	100	98	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		111	mg/Kg	100	100	111	43.1 - 158.4

Sample: 228145 - AH-6 0-1' 0.5' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59097 Sample Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		<200	mg/Kg	50	4.00

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 12 of 38
Eddy Co., NM

Sample: 228145 - AH-6 0-1' 0.5' BEB

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 69021
Prep Batch: 59075

Analytical Method: Mod. 8015B
Date Analyzed: 2010-04-12
Sample Preparation: 2010-04-12

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1530	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	⁵	282	mg/Kg	1	100	282	70 - 130

Sample: 228145 - AH-6 0-1' 0.5' BEB

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 69076
Prep Batch: 59128

Analytical Method: S 8015B
Date Analyzed: 2010-04-13
Sample Preparation: 2010-04-13

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1690	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		96.1	mg/Kg	100	100	96	50.3 - 155
4-Bromofluorobenzene (4-BFB)		116	mg/Kg	100	100	116	51.7 - 131.1

Sample: 228146 - AH-6 1-1.5' 0.5' BEB

Laboratory: Midland
Analysis: BTEX
QC Batch: 69156
Prep Batch: 59169

Analytical Method: S 8021B
Date Analyzed: 2010-04-14
Sample Preparation: 2010-04-14

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

⁵High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 13 of 38
Eddy Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.06	mg/Kg	1	2.00	103	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		2.05	mg/Kg	1	2.00	102	43.1 - 158.4

Sample: 228146 - AH-6 1-1.5' 0.5' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59097 Sample Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228151 - AH-7 0-1' 0.5' BEB

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 69075 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 Sample Preparation: 2010-04-13 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		2.89	mg/Kg	50	0.0100
Toluene		36.2	mg/Kg	50	0.0100
Ethylbenzene		44.0	mg/Kg	50	0.0100
Xylene		67.8	mg/Kg	50	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		51.6	mg/Kg	50	50.0	103	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		71.7	mg/Kg	50	50.0	143	43.1 - 158.4

Sample: 228151 - AH-7 0-1' 0.5' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59097 Sample Preparation: 2010-04-13 Prepared By: AR

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 14 of 38
Eddy Co., NM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228151 - AH-7 0-1' 0.5' BEB

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 69021 Date Analyzed: 2010-04-12 Analyzed By: kg
Prep Batch: 59075 Sample Preparation: 2010-04-12 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		3570	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	⁶	571	mg/Kg	5	100	571	70 - 130

Sample: 228151 - AH-7 0-1' 0.5' BEB

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 69076 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 Sample Preparation: 2010-04-13 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2640	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		50.5	mg/Kg	50	50.0	101	50.3 - 155
4-Bromofluorobenzene (4-BFB)	⁷	77.4	mg/Kg	50	50.0	155	51.7 - 131.1

Sample: 228152 - AH-7 1-1.5' 0.5' BEB

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 69156 Date Analyzed: 2010-04-14 Analyzed By: AG
Prep Batch: 59169 Sample Preparation: 2010-04-14 Prepared By: AG

continued ...

⁶High surrogate recovery due to peak interference.

⁷High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 15 of 38
Eddy Co., NM

sample 228152 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/Kg	1	2.00	104	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		2.04	mg/Kg	1	2.00	102	43.1 - 158.4

Sample: 228152 - AH-7 1-1.5' 0.5' BEB

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	69136	Date Analyzed:	2010-04-15
Prep Batch:	59097	Sample Preparation:	2010-04-13
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228152 - AH-7 1-1.5' 0.5' BEB

Laboratory:	Midland		
Analysis:	TPH DRO - NEW	Analytical Method:	Mod. 8015B
QC Batch:	69155	Date Analyzed:	2010-04-15
Prep Batch:	59200	Sample Preparation:	2010-04-15
		Prep Method:	N/A
		Analyzed By:	kg
		Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		90.0	mg/Kg	1	100	90	70 - 130

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 16 of 38
Eddy Co., NM

Sample: 228152 - AH-7 1-1.5' 0.5' BEB

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 69157

Prep Batch: 59169

Analytical Method: S 8015B

Date Analyzed: 2010-04-14

Sample Preparation: 2010-04-14

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.11	mg/Kg	1	2.00	106	50.3 - 155
4-Bromofluorobenzene (4-BFB)		2.07	mg/Kg	1	2.00	104	51.7 - 131.1

Sample: 228159 - AH-8 0-1' 0.5' BEB

Laboratory: Midland

Analysis: BTEX

QC Batch: 69075

Prep Batch: 59128

Analytical Method: S 8021B

Date Analyzed: 2010-04-13

Sample Preparation: 2010-04-13

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.49	mg/Kg	50	0.0100
Toluene		35.2	mg/Kg	50	0.0100
Ethylbenzene		44.4	mg/Kg	50	0.0100
Xylene		73.8	mg/Kg	50	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		41.4	mg/Kg	50	50.0	83	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		63.6	mg/Kg	50	50.0	127	43.1 - 158.4

Sample: 228159 - AH-8 0-1' 0.5' BEB

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 69137

Prep Batch: 59098

Analytical Method: SM 4500-Cl B

Date Analyzed: 2010-04-15

Sample Preparation: 2010-04-13

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 17 of 38
Eddy Co., NM

Sample: 228159 - AH-8 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	TPH DRO - NEW	Analytical Method:	Mod. 8015B
QC Batch:	69021	Date Analyzed:	2010-04-12
Prep Batch:	59075	Sample Preparation:	2010-04-12
		Prep Method:	N/A
		Analyzed By:	kg
		Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		4200	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	⁸	642	mg/Kg	5	100	642	70 - 130

Sample: 228159 - AH-8 0-1' 0.5' BEB

Laboratory:	Midland		
Analysis:	TPH GRO	Analytical Method:	S 8015B
QC Batch:	69076	Date Analyzed:	2010-04-13
Prep Batch:	59128	Sample Preparation:	2010-04-13
		Prep Method:	S 5035
		Analyzed By:	AG
		Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2730	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		41.3	mg/Kg	50	50.0	83	50.3 - 155
4-Bromofluorobenzene (4-BFB)	⁹	69.0	mg/Kg	50	50.0	138	51.7 - 131.1

Sample: 228160 - AH-8 1-1.5' 0.5' BEB

Laboratory:	Midland		
Analysis:	BTEX	Analytical Method:	S 8021B
QC Batch:	69156	Date Analyzed:	2010-04-14
Prep Batch:	59169	Sample Preparation:	2010-04-14
		Prep Method:	S 5035
		Analyzed By:	AG
		Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.58	mg/Kg	50	0.0100
Toluene		5.80	mg/Kg	50	0.0100
Ethylbenzene		7.93	mg/Kg	50	0.0100
Xylene		28.4	mg/Kg	50	0.0100

⁸High surrogate recovery due to peak interference.

⁹High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 18 of 38
Eddy Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		50.2	mg/Kg	50	50.0	100	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		60.3	mg/Kg	50	50.0	121	43.1 - 158.4

Sample: 228160 - AH-8 1-1.5' 0.5' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 69137 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59098 Sample Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 228160 - AH-8 1-1.5' 0.5' BEB

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 69155 Date Analyzed: 2010-04-15 Analyzed By: kg
Prep Batch: 59200 Sample Preparation: 2010-04-15 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		4260	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	¹⁰	628	mg/Kg	5	100	628	70 - 130

Sample: 228160 - AH-8 1-1.5' 0.5' BEB

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 69157 Date Analyzed: 2010-04-14 Analyzed By: AG
Prep Batch: 59169 Sample Preparation: 2010-04-14 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1220	mg/Kg	50	1.00

¹⁰High surrogate recovery due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 19 of 38
Eddy Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		50.4	mg/Kg	50	50.0	101	50.3 - 155
4-Bromofluorobenzene (4-BFB)		63.1	mg/Kg	50	50.0	126	51.7 - 131.1

Sample: 228161 - AH-8 2-2.5' 0.5' BEB

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 69232

Prep Batch: 59263

Analytical Method: Mod. 8015B

Date Analyzed: 2010-04-19

Sample Preparation: 2010-04-19

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		80.1	mg/Kg	1	100	80	70 - 130

Sample: 228161 - AH-8 2-2.5' 0.5' BEB

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 69190

Prep Batch: 59223

Analytical Method: S 8015B

Date Analyzed: 2010-04-17

Sample Preparation: 2010-04-16

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.22	mg/Kg	1	2.00	111	50.3 - 155
4-Bromofluorobenzene (4-BFB)		2.34	mg/Kg	1	2.00	117	51.7 - 131.1

Method Blank (1) QC Batch: 69021

QC Batch: 69021

Prep Batch: 59075

Date Analyzed: 2010-04-12

QC Preparation: 2010-04-12

Analyzed By: kg

Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		71.5	mg/Kg	1	100	72	70 - 130

Method Blank (1) QC Batch: 69075

QC Batch: 69075 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 QC Preparation: 2010-04-13 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00410	mg/Kg	0.01
Toluene		<0.00310	mg/Kg	0.01
Ethylbenzene		<0.00240	mg/Kg	0.01
Xylene		<0.00650	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/Kg	1	2.00	104	64.9 - 142.7
4-Bromofluorobenzene (4-BFB)		1.64	mg/Kg	1	2.00	82	43.9 - 141.9

Method Blank (1) QC Batch: 69076

QC Batch: 69076 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 QC Preparation: 2010-04-13 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.396	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	62 - 120.5

Method Blank (1) QC Batch: 69135

QC Batch: 69135 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59096 QC Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 21 of 38
Eddy Co., NM

Method Blank (1) QC Batch: 69136

QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59097 QC Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 69137

QC Batch: 69137 Date Analyzed: 2010-04-15 Analyzed By: AR
Prep Batch: 59098 QC Preparation: 2010-04-13 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 69155

QC Batch: 69155 Date Analyzed: 2010-04-15 Analyzed By: kg
Prep Batch: 59200 QC Preparation: 2010-04-15 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		6.39	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.3	mg/Kg	1	100	93	70 - 130

Method Blank (1) QC Batch: 69156

QC Batch: 69156 Date Analyzed: 2010-04-14 Analyzed By: AG
Prep Batch: 59169 QC Preparation: 2010-04-14 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00410	mg/Kg	0.01
Toluene		<0.00310	mg/Kg	0.01
Ethylbenzene		<0.00240	mg/Kg	0.01
Xylene		<0.00650	mg/Kg	0.01

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 22 of 38
Eddy Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.82	mg/Kg	1	2.00	91	64.9 - 142.7
4-Bromofluorobenzene (4-BFB)		1.72	mg/Kg	1	2.00	86	43.9 - 141.9

Method Blank (1) QC Batch: 69157

QC Batch: 69157 Date Analyzed: 2010-04-14 Analyzed By: AG
Prep Batch: 59169 QC Preparation: 2010-04-14 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.396	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/Kg	1	2.00	93	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.76	mg/Kg	1	2.00	88	62 - 120.5

Method Blank (1) QC Batch: 69190

QC Batch: 69190 Date Analyzed: 2010-04-17 Analyzed By: AG
Prep Batch: 59223 QC Preparation: 2010-04-16 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.396	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/Kg	1	2.00	93	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.49	mg/Kg	1	2.00	74	62 - 120.5

Method Blank (1) QC Batch: 69232

QC Batch: 69232 Date Analyzed: 2010-04-19 Analyzed By: kg
Prep Batch: 59263 QC Preparation: 2010-04-19 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 23 of 38
Eddy Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		78.6	mg/Kg	1	100	79	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 69021
Prep Batch: 59075

Date Analyzed: 2010-04-12
QC Preparation: 2010-04-12

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	320	mg/Kg	1	250	<5.86	128	57.4 - 133.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	318	mg/Kg	1	250	<5.86	127	57.4 - 133.4	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	79.9	78.4	mg/Kg	1	100	80	78	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 69075
Prep Batch: 59128

Date Analyzed: 2010-04-13
QC Preparation: 2010-04-13

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.85	mg/Kg	1	2.00	<0.00410	93	75.4 - 115.7
Toluene	1.82	mg/Kg	1	2.00	<0.00310	91	78.4 - 113.6
Ethylbenzene	1.77	mg/Kg	1	2.00	<0.00240	88	76 - 114.2
Xylene	5.31	mg/Kg	1	6.00	<0.00650	88	76.9 - 113.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.88	mg/Kg	1	2.00	<0.00410	94	75.4 - 115.7	1	20
Toluene	1.85	mg/Kg	1	2.00	<0.00310	92	78.4 - 113.6	2	20
Ethylbenzene	1.81	mg/Kg	1	2.00	<0.00240	90	76 - 114.2	2	20
Xylene	5.48	mg/Kg	1	6.00	<0.00650	91	76.9 - 113.6	3	20

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

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 24 of 38
Eddy Co., NM

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.88	1.86	mg/Kg	1	2.00	94	93	65 - 142.9
4-Bromofluorobenzene (4-BFB)	1.91	1.91	mg/Kg	1	2.00	96	96	43.8 - 144.9

Laboratory Control Spike (LCS-1)

QC Batch: 69076
Prep Batch: 59128

Date Analyzed: 2010-04-13
QC Preparation: 2010-04-13

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<0.396	83	52.5 - 114.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.1	mg/Kg	1	20.0	<0.396	80	52.5 - 114.3	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.86	1.62	mg/Kg	1	2.00	93	81	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	1.84	1.62	mg/Kg	1	2.00	92	81	64.1 - 127.4

Laboratory Control Spike (LCS-1)

QC Batch: 69135
Prep Batch: 59096

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-13

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.9	mg/Kg	1	100	<2.18	99	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 69136
Prep Batch: 59097

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-13

Analyzed By: AR
Prepared By: AR

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 25 of 38
Eddy Co., NM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.0	mg/Kg	1	100	<2.18	99	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 69137
Prep Batch: 59098

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-13

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.5	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<2.18	100	85 - 115	2	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: 69155
Prep Batch: 59200

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-15

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	194	mg/Kg	1	250	<5.86	78	57.4 - 133.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	198	mg/Kg	1	250	<5.86	79	57.4 - 133.4	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	78.6	79.8	mg/Kg	1	100	79	80	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 69156
Prep Batch: 59169

Date Analyzed: 2010-04-14
QC Preparation: 2010-04-14

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.90	mg/Kg	1	2.00	<0.00410	95	75.4 - 115.7
Toluene	1.88	mg/Kg	1	2.00	<0.00310	94	78.4 - 113.6
Ethylbenzene	1.82	mg/Kg	1	2.00	<0.00240	91	76 - 114.2
Xylene	5.49	mg/Kg	1	6.00	<0.00650	92	76.9 - 113.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.85	mg/Kg	1	2.00	<0.00410	92	75.4 - 115.7	3	20
Toluene	1.83	mg/Kg	1	2.00	<0.00310	92	78.4 - 113.6	3	20
Ethylbenzene	1.77	mg/Kg	1	2.00	<0.00240	88	76 - 114.2	3	20
Xylene	5.37	mg/Kg	1	6.00	<0.00650	90	76.9 - 113.6	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.93	1.80	mg/Kg	1	2.00	96	90	65 - 142.9
4-Bromofluorobenzene (4-BFB)	2.06	1.91	mg/Kg	1	2.00	103	96	43.8 - 144.9

Laboratory Control Spike (LCS-1)

QC Batch: 69157
Prep Batch: 59169

Date Analyzed: 2010-04-14
QC Preparation: 2010-04-14

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.7	mg/Kg	1	20.0	<0.396	88	52.5 - 114.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	17.1	mg/Kg	1	20.0	<0.396	86	52.5 - 114.3	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.61	1.76	mg/Kg	1	2.00	80	88	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	1.68	1.82	mg/Kg	1	2.00	84	91	64.1 - 127.4

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 27 of 38
Eddy Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: 69190
Prep Batch: 59223

Date Analyzed: 2010-04-17
QC Preparation: 2010-04-16

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.0	mg/Kg	1	20.0	<0.396	80	52.5 - 114.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	15.7	mg/Kg	1	20.0	<0.396	78	52.5 - 114.3	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.72	1.76	mg/Kg	1	2.00	86	88	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	1.73	1.77	mg/Kg	1	2.00	86	88	64.1 - 127.4

Laboratory Control Spike (LCS-1)

QC Batch: 69232
Prep Batch: 59263

Date Analyzed: 2010-04-19
QC Preparation: 2010-04-19

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	212	mg/Kg	1	250	<5.86	85	57.4 - 133.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	222	mg/Kg	1	250	<5.86	89	57.4 - 133.4	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	78.4	80.4	mg/Kg	1	100	78	80	70 - 130

Matrix Spike (MS-1) Spiked Sample: 228118

QC Batch: 69021
Prep Batch: 59075

Date Analyzed: 2010-04-12
QC Preparation: 2010-04-12

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	436	mg/Kg	1	250	312	50	35.2 - 167.1

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	340	mg/Kg	1	250	312	11	35.2 - 167.1	25	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	123	108	mg/Kg	1	100	123	108	70 - 130

Matrix Spike (MS-1) Spiked Sample: 228004

QC Batch: 69075 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 QC Preparation: 2010-04-13 Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.01	mg/Kg	1	2.00	<0.00410	100	57.7 - 140.7
Toluene	2.02	mg/Kg	1	2.00	<0.00310	101	53.4 - 146.6
Ethylbenzene	2.04	mg/Kg	1	2.00	<0.00240	102	62.1 - 141.6
Xylene	6.18	mg/Kg	1	6.00	<0.00650	103	61.2 - 142.7

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.98	mg/Kg	1	2.00	<0.00410	99	57.7 - 140.7	2	20
Toluene	1.99	mg/Kg	1	2.00	<0.00310	100	53.4 - 146.6	2	20
Ethylbenzene	2.03	mg/Kg	1	2.00	<0.00240	102	62.1 - 141.6	0	20
Xylene	6.16	mg/Kg	1	6.00	<0.00650	103	61.2 - 142.7	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.61	1.60	mg/Kg	1	2	80	80	61.7 - 139.6
4-Bromofluorobenzene (4-BFB)	1.67	1.65	mg/Kg	1	2	84	82	49.6 - 146.7

Matrix Spike (MS-1) Spiked Sample: 228127

QC Batch: 69076 Date Analyzed: 2010-04-13 Analyzed By: AG
Prep Batch: 59128 QC Preparation: 2010-04-13 Prepared By: AG

¹¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 29 of 38
Eddy Co., NM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	235	mg/Kg	10	200	144	46	10 - 198.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	248	mg/Kg	10	200	144	52	10 - 198.3	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	10.0	7.59	mg/Kg	10	10	100	76	65.5 - 143
4-Bromofluorobenzene (4-BFB)	11.3	9.10	mg/Kg	10	10	113	91	58.6 - 140

Matrix Spike (MS-1) Spiked Sample: 228123

QC Batch: 69135
Prep Batch: 59096

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-13

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9820	mg/Kg	100	10000	<218	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	9930	mg/Kg	100	10000	<218	99	85 - 115	1	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: 228152

QC Batch: 69136
Prep Batch: 59097

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-13

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10000	mg/Kg	100	10000	<218	100	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10100	mg/Kg	100	10000	<218	101	85 - 115	1	20

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

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 30 of 38
Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 228291

QC Batch: 69137
Prep Batch: 59098

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-13

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9980	mg/Kg	100	10000	<218	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10100	mg/Kg	100	10000	<218	100	85 - 115	1	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: 228729

QC Batch: 69155
Prep Batch: 59200

Date Analyzed: 2010-04-15
QC Preparation: 2010-04-15

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	141	mg/Kg	1	250	7.36	53	35.2 - 167.1

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	142	mg/Kg	1	250	7.36	54	35.2 - 167.1	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	83.2	84.7	mg/Kg	1	100	83	85	70 - 130

Matrix Spike (MS-1) Spiked Sample: 228263

QC Batch: 69156
Prep Batch: 59169

Date Analyzed: 2010-04-14
QC Preparation: 2010-04-14

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.92	mg/Kg	1	2.00	<0.00410	96	57.7 - 140.7
Toluene	1.93	mg/Kg	1	2.00	<0.00310	96	53.4 - 146.6

continued ...

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 31 of 38
Eddy Co., NM

matrix spikes continued . . .

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ethylbenzene	1.94	mg/Kg	1	2.00	<0.00240	97	62.1 - 141.6
Xylene	5.84	mg/Kg	1	6.00	<0.00650	97	61.2 - 142.7

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.89	mg/Kg	1	2.00	<0.00410	94	57.7 - 140.7	2	20
Toluene	1.90	mg/Kg	1	2.00	<0.00310	95	53.4 - 146.6	2	20
Ethylbenzene	1.92	mg/Kg	1	2.00	<0.00240	96	62.1 - 141.6	1	20
Xylene	5.80	mg/Kg	1	6.00	<0.00650	97	61.2 - 142.7	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.94	1.90	mg/Kg	1	2	97	95	61.7 - 139.6
4-Bromofluorobenzene (4-BFB)	2.02	1.97	mg/Kg	1	2	101	98	49.6 - 146.7

Matrix Spike (MS-1) Spiked Sample: 228152

QC Batch: 69157
Prep Batch: 59169

Date Analyzed: 2010-04-14
QC Preparation: 2010-04-14

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.5	mg/Kg	1	20.0	<0.396	88	10 - 198.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	17.5	mg/Kg	1	20.0	<0.396	88	10 - 198.3	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.71	1.87	mg/Kg	1	2	86	94	65.5 - 143
4-Bromofluorobenzene (4-BFB)	1.88	2.03	mg/Kg	1	2	94	102	58.6 - 140

Matrix Spike (MS-1) Spiked Sample: 228738

QC Batch: 69190
Prep Batch: 59223

Date Analyzed: 2010-04-17
QC Preparation: 2010-04-16

Analyzed By: AG
Prepared By: AG

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 32 of 38
Eddy Co., NM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.3	mg/Kg	1	20.0	<0.396	82	10 - 198.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	17.5	mg/Kg	1	20.0	<0.396	88	10 - 198.3	7	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	¹² 1.29	1.40	mg/Kg	1	2	64	70	65.5 - 143
4-Bromofluorobenzene (4-BFB)	1.42	1.53	mg/Kg	1	2	71	76	58.6 - 140

Matrix Spike (MS-1) Spiked Sample: 228753

QC Batch: 69232
Prep Batch: 59263

Date Analyzed: 2010-04-19
QC Preparation: 2010-04-19

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	320	mg/Kg	1	250	130	76	35.2 - 167.1

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	297	mg/Kg	1	250	130	67	35.2 - 167.1	7	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	110	108	mg/Kg	1	100	110	108	70 - 130

Standard (CCV-1)

QC Batch: 69021

Date Analyzed: 2010-04-12

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	279	112	80 - 120	2010-04-12

¹²Surrogate out due to peak interference.

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 33 of 38
Eddy Co., NM

Standard (CCV-2)

QC Batch: 69021

Date Analyzed: 2010-04-12

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	270	108	80 - 120	2010-04-12

Standard (CCV-3)

QC Batch: 69021

Date Analyzed: 2010-04-12

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	282	113	80 - 120	2010-04-12

Standard (CCV-2)

QC Batch: 69075

Date Analyzed: 2010-04-13

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0935	94	80 - 120	2010-04-13
Toluene		mg/Kg	0.100	0.0915	92	80 - 120	2010-04-13
Ethylbenzene		mg/Kg	0.100	0.0881	88	80 - 120	2010-04-13
Xylene		mg/Kg	0.300	0.266	89	80 - 120	2010-04-13

Standard (CCV-3)

QC Batch: 69075

Date Analyzed: 2010-04-13

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0951	95	80 - 120	2010-04-13
Toluene		mg/Kg	0.100	0.0948	95	80 - 120	2010-04-13
Ethylbenzene		mg/Kg	0.100	0.0918	92	80 - 120	2010-04-13
Xylene		mg/Kg	0.300	0.277	92	80 - 120	2010-04-13

Standard (CCV-1)

QC Batch: 69076

Date Analyzed: 2010-04-13

Analyzed By: AG

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 34 of 38
Eddy Co., NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.03	103	80 - 120	2010-04-13

Standard (CCV-2)

QC Batch: 69076 Date Analyzed: 2010-04-13 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	80 - 120	2010-04-13

Standard (CCV-3)

QC Batch: 69076 Date Analyzed: 2010-04-13 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.14	114	80 - 120	2010-04-13

Standard (ICV-1)

QC Batch: 69135 Date Analyzed: 2010-04-15 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-04-15

Standard (CCV-1)

QC Batch: 69135 Date Analyzed: 2010-04-15 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-04-15

Standard (ICV-1)

QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 35 of 38
Eddy Co., NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2010-04-15

Standard (CCV-1)

QC Batch: 69136 Date Analyzed: 2010-04-15 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-04-15

Standard (ICV-1)

QC Batch: 69137 Date Analyzed: 2010-04-15 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-04-15

Standard (CCV-1)

QC Batch: 69137 Date Analyzed: 2010-04-15 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.9	98	85 - 115	2010-04-15

Standard (CCV-1)

QC Batch: 69155 Date Analyzed: 2010-04-15 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	200	80	80 - 120	2010-04-15

Standard (CCV-2)

QC Batch: 69155 Date Analyzed: 2010-04-15 Analyzed By: kg

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 36 of 38
Eddy Co., NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	209	84	80 - 120	2010-04-15

Standard (CCV-3)

QC Batch: 69155 Date Analyzed: 2010-04-15 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	205	82	80 - 120	2010-04-15

Standard (CCV-4)

QC Batch: 69155 Date Analyzed: 2010-04-15 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	251	100	80 - 120	2010-04-15

Standard (CCV-1)

QC Batch: 69156 Date Analyzed: 2010-04-14 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0966	97	80 - 120	2010-04-14
Toluene		mg/Kg	0.100	0.0953	95	80 - 120	2010-04-14
Ethylbenzene		mg/Kg	0.100	0.0918	92	80 - 120	2010-04-14
Xylene		mg/Kg	0.300	0.281	94	80 - 120	2010-04-14

Standard (CCV-2)

QC Batch: 69156 Date Analyzed: 2010-04-14 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.100	100	80 - 120	2010-04-14
Toluene		mg/Kg	0.100	0.0984	98	80 - 120	2010-04-14
Ethylbenzene		mg/Kg	0.100	0.0946	95	80 - 120	2010-04-14

continued ...

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 37 of 38
Eddy Co., NM

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/Kg	0.300	0.285	95	80 - 120	2010-04-14

Standard (CCV-3)

QC Batch: 69156

Date Analyzed: 2010-04-14

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0953	95	80 - 120	2010-04-14
Toluene		mg/Kg	0.100	0.0936	94	80 - 120	2010-04-14
Ethylbenzene		mg/Kg	0.100	0.0904	90	80 - 120	2010-04-14
Xylene		mg/Kg	0.300	0.273	91	80 - 120	2010-04-14

Standard (CCV-2)

QC Batch: 69157

Date Analyzed: 2010-04-14

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.938	94	80 - 120	2010-04-14

Standard (CCV-3)

QC Batch: 69157

Date Analyzed: 2010-04-14

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.06	106	80 - 120	2010-04-14

Standard (CCV-2)

QC Batch: 69190

Date Analyzed: 2010-04-17

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	80 - 120	2010-04-17

Report Date: April 20, 2010
114-6400488

Work Order: 10041206
COG/Electra N. Federal TB

Page Number: 38 of 38
Eddy Co., NM

Standard (CCV-3)

QC Batch: 69190

Date Analyzed: 2010-04-17

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.953	95	80 - 120	2010-04-17

Standard (CCV-1)

QC Batch: 69232

Date Analyzed: 2010-04-19

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	219	88	80 - 120	2010-04-19

Standard (CCV-2)

QC Batch: 69232

Date Analyzed: 2010-04-19

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	231	92	80 - 120	2010-04-19

Order #: 100412016

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 5

**TETRA TECH**
 1910 N. Big Spring St.
 Midland, Texas 79705
 (432) 682-4559 • Fax (432) 682-3946

 ANALYSIS REQUEST
 (Circle or Specify Method No.)
CLIENT NAME:
COLASITE MANAGER:
Ike TavarazPROJECT NO.:
114-6400488PROJECT NAME:
COLA / El Paso N. Federal TB
Eddy Co., NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PRESERVATIVE METHOD					BTX 8021B	TPH 8015 MOD	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/808	Pest. 808/808	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
								FILTERED (Y/N)	HCL	HNO3	ICE	NONE																	
208118	4/7		S	X		AH-1 0-1' 1' BEB	1				X		X												X				
119						AH-1 1'-1.5' 1' BEB																		X					
120						AH-1 2'-2.5' 1' BEB																							
121						AH-1 2.5'-3' 1' BEB																							
122						AH-2 0-1' 0.5' BEB							X											X					
123						AH-2 1'-1.5' 0.5' BEB																	X						
124						AH-2 2'-2.5' 0.5' BEB																							
125						AH-2 3'-3.5' 0.5' BEB																							
126						AH-2 4'-4.5' 0.5' BEB																							
127						AH-3 0-1' 0.5' BEB							X											X					

RELINQUISHED BY: (Signature)

Date: 4-9-10
Time: 11:20

RECEIVED BY: (Signature)

Date: 4/9/10
Time: 11:20

SAMPLED BY: (Print & Initial)

ST / TF

Date: 4/9/10
Time:

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

SAMPLE SHIPPED BY: (Circle)

FEDEX
AND DELIVERED

AIRBILL #: _____

OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

Tetra

RECEIVED BY: (Signature)

ADDRESS:

CITY: Midland

STATE: TX

ZIP: _____

CONTACT:

PHONE: _____

DATE: _____

TIME: _____

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

14.0°C intact

If total TPH exceeds 5,000 mg/kg, run deeper samples / Run 4 BTX on highest TPH

Ike Tavaraz

RUSH Charges
Authorized:

Yes No

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

Hold samples for additional testing.

Order #: 100412016

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 5

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)CLIENT NAME: COGSITE MANAGER:
Ike TavarazPROJECT NO.:
114-6400488PROJECT NAME:
COG / Electra N Federal TB
Eddy Co, NM

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS FILTERED (Y/N)	PRESERVATIVE METHOD					BTEX 8021B	TPH 8015 MOD	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
										HCL	HNO3	ICE	NONE																		
<u>228138</u>	<u>4/7</u>		<u>S</u>		<u>X</u>	<u>AH-4</u>	<u>3'-3.5'</u>	<u>0.5' BEB</u>	<u>1</u>			<u>X</u>																			
<u>139</u>						<u>AH-4</u>	<u>4'-4.5'</u>	<u>0.5' BEB</u>																							
<u>140</u>						<u>AH-4</u>	<u>5'-5.5'</u>	<u>0.5' BEB</u>																							
<u>141</u>						<u>AH-4</u>	<u>6'-6.5'</u>	<u>0.5' BEB</u>																							
<u>142</u>						<u>AH-5</u>	<u>0-1'</u>	<u>2' BEB</u>								<u>X</u>											<u>X</u>				
<u>143</u>						<u>AH-5</u>	<u>1'-1.5'</u>	<u>2' BEB</u>																			<u>X</u>				
<u>144</u>						<u>AH-5</u>	<u>2'-2.5'</u>	<u>2' BEB</u>																							
<u>145</u>						<u>AH-L</u>	<u>0-1'</u>	<u>0.5' BEB</u>								<u>X</u>											<u>X</u>				
<u>146</u>						<u>AH-L</u>	<u>1'-1.5'</u>	<u>0.5' BEB</u>																		<u>X</u>					
<u>147</u>						<u>AH-L</u>	<u>2'-2.5'</u>	<u>0.5' BEB</u>																							

RELINQUISHED BY: (Signature)

Date: 4-9-10
Time: 11:20

RECEIVED BY: (Signature)

Date: 4/9/10
Time: 11:20

SAMPLED BY: (Print & Initial)

IT/TFDate: 4/7/10
Time: _____

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #:

HAND DELIVERED

UPS

OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

RECEIVED BY: (Signature)

ADDRESS:

CITY: MidlandSTATE: TX

ZIP: _____

CONTACT:

PHONE: _____

DATE: _____

TIME: _____

Ike TavarazRUSH Charges
Authorized:

Yes

No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

140'c intactIf total TPH exceeds 5,000 mg/kg, run deeper samples / Run 4 BTEX on highest TPH.

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

Hold samp for additional instructions

Order #: 10041206

Analysis Request of Chain of Custody Record

PAGE: 4 OF: 5

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)CLIENT NAME: COGSITE MANAGER: Ike TavarazPROJECT NO.: 114-6400488PROJECT NAME: COG / Electra N. Federal TB
Eddy Co NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD			
	2010								HCL	HNO3	ICE	NONE	

228	4/7		S	X		AH-L	3'-3.5'	0.5'	BEB			X	
149						AH-L	4'-4.5'	0.5'	BEB				
150						AH-L	5'-5.5'	0.5'	BEB				
151						AH-7	0-1'	0.5'	BEB				
152						AH-7	1'-1.5'	0.5'	BEB				
153						AH-7	2'-2.5'	0.5'	BEB				
154						AH-7	3'-3.5'	0.5'	BEB				
155						AH-7	4'-4.5'	0.5'	BEB				
156						AH-7	5'-5.5'	0.5'	BEB				
157						AH-7	6'-6.5'	0.5'	BEB				

RELINQUISHED BY: (Signature) [Signature]Date: 4/9/10
Time: 11:20RECEIVED BY: (Signature) [Signature]Date: 4/9/10
Time: 11:20SAMPLED BY: (Print & Initial) ST/TFDate: 4/9/10
Time: RELINQUISHED BY: (Signature) [Signature]Date:
Time: RECEIVED BY: (Signature) [Signature]Date:
Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX ☐ BUS ☐
HAND DELIVERED ☒ UPS ☐AIRBILL #: OTHER: RELINQUISHED BY: (Signature) [Signature]Date:
Time: RECEIVED BY: (Signature) [Signature]Date:
Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY: TracyRECEIVED BY: (Signature) [Signature]ADDRESS: Midland STATE: TX ZIP:
CITY: PHONE: DATE: TIME: Ike TavarazRUSH Charges
Authorized:
Yes No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

14.0°C intactIF total TPH exceeds 5,000 mg/kg, run deeper samples / Run 4 BTEX on highest TPH

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

Hold sample for additional instructions

Order #: 100412016

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

PAGE: 5 OF: 5

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER:
Ike Tavaraz

PROJECT NO.:
114-6400488

PROJECT NAME:
COG / Ectra N. Federal TB
Eddy Co. NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		
228158	4/7		G		X	AH-7	7'-7.5'	0.5' BEB
169						AH-8	0-1'	0.5' BEB
160						AH-8	1'-1.5'	0.5' BEB
161						AH-8	2'-2.5'	0.5' BEB
162						AH-8	3'-3.5'	0.5' BEB
163						AH-8	4'-4.5'	0.5' BEB
164						AH-8	5'-5.5'	0.5' BEB
165						AH-8	5.5'-6'	0.5' BEB

BTEX 8021B
TPH 8015 MOD
PAH 8270

TX1005 (Ext. to C35)

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/624

GC/MS Semi. Vol. 8270/825

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature) [Signature] Date: 4-9-10 Time: 11:20

RECEIVED BY: (Signature) [Signature] Date: 4/9/10 Time: 11:20

SAMPLED BY: (Print & Initial) ST/TF Date: 4/7/10 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike Tavaraz Results by:

RECEIVING LABORATORY: ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) DATE: TIME:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 14.0°C intact

REMARKS: If total TPH exceeds 5,000 mg/kg, run deeper horizons / Run 4 BTEX on highest TPH

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

Hold same for additional instruction

email: lab@traceanalysis.com

200 East Sunset Rd., Suite E
El Paso, Texas 79922
 Tel (915) 585-3443
 Fax (915) 585-4944
 1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by: <i>[Signature]</i>	Company: <i>Talon</i>	Date: <i>4-20-10</i>	Time: <i>1800</i>	Received by:	Company:	Date:	Time:	INST _____	LAB USE ONLY	REMARKS: <i>* State Lead Rates</i>
								OBS _____		
								COR _____		
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST _____	Intact <u>Y</u> / <u>N</u>	
								OBS _____	Headspace <u>Y</u> / <u>N</u> / <u>NA</u>	
								COR _____	☐ Dry Weight Basis Required	
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST <u>P</u>	☐ TRRP Report Required	
				<i>Capt Fox</i>	<i>Trace</i>	<i>4-21-10</i>	<i>8:30 AM</i>	OBS <u>1.4</u>	☐ Check If Special Reporting Limits Are Needed	
								COR <u>1.6</u>	Log-in-Review <u>[Signature]</u>	

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:	Talon / LPE	Phone #:	806-467-0607
Address:	(Street, City, Zip) 921 N. Givins Amarillo TX 79107	Fax #:	
Contact Person:	Justin Wheeler	E-mail:	jwheeler@talonlpe.com

Invoice to:
(If different from above)

Project #: 092663.000.04 Project Name: City of Anson Maintenance Barn

Project Location (including state): Amesbury, TX Sampler Signature: [Signature]

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MTBE 8021 / 602 BTEX 8024 / 602 / 1 TPH 418.1 / TX1005 TPH 8015 GRO / DPH PAH 8270 / 625 Total Metals Ag As Ba C TCLP Metals Ag As TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260 / 6 GC/MS Semi. Vol. 8 PCB's 8082 / 608 Pesticides 8081 / 608 BOD, TSS, pH Moisture Content Cl, F, S04, NO3, N Na, Ca, Mg, K, TDS	Turn Around Time if	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE				TIME
299130	MW-LS9	3	Vials	X				X		X		4-20-10	1202	X	X			
131	MW-4-12AB	1											1223					
132	MW-5	1											1350					
133	MW-3	1											1412					
134	MW-2	1											1430					
135	MW-8	1											1504					
136	MW-6	1											1525					
137	MW-10	1											1451					
138	DUP-A	✓											1532					
139	Trip Blank	2	✓	✓				✓				✓						
	Temp Blank	1		✓						✓		✓						

Relinquished by: Company: Date: Time:

W. A. Talon 4-20-10 1900

Relinquished by: Company: Date: Time:

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time: INST

OBS _____
COR _____

Received by: Company: Date: Time: INST

OBS _____ C
COR _____ C

Received by: _____ Company: _____ Date: _____ Time: _____ INST **P**

INST _____
OBS _____ C
COR _____ C

INST _____
OBS _____ C
COR _____ C

INST P

**LAB USE
ONLY**

Intact Y N

Headspace Y/N/N

REMARKS: * State Local Rates

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Fed 8705 277A 1.1.1.0