

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

RECEIVED
JAN 22 2010
HOBSUCD

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 BC Federal #1	Facility Type Tank Battery - 100 yards south of battery
Surface Owner Federal	Mineral Owner
	Lease No. 30-025-34733

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	20	17S	32E	330	North	1575	West	Lea

Latitude N **32.825260°**

Longitude **103.791110°**

NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release 40 bbls	Volume Recovered 10 bbls
Source of Release Header in mainline	Date and Hour of Occurrence 7/30/09 10:00 PM	Date and Hour of Discovery 7/30/09 11:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Leking - OCD Trishia Bad Bear - BLM	
By Whom? Kanicia Castillo	Date and Hour 7/31/09 2:35 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.* Hole in 6" mainline from SWD header between BC Federal and MC Federal leases. Hole 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 to Lea Land, Inc in Carlsbad, NM. 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: <i>Pat Ellis</i>	OIL CONSERVATION DIVISION	
Printed Name: Pat Ellis	Approved by District Supervisor: <i>[Signature]</i>	
Title: Environmental and Safety Supervisor	ENVIRONMENTAL ENGINEER	
E-mail Address: PEllis@conchoresources.com	Approval Date: 4.9.10	Expiration Date: _____
Date: 12/7/09 Phone: (432) 686-3023	Conditions of Approval:	
	Attached <input type="checkbox"/> <i>[Initials]</i>	

Attach Additional Sheets If Necessary

10.1.2400



TETRA TECH

December 8, 2009

RECEIVED

JAN 22 2010

HOBBSOCD

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Assessment and Closure Report for the COG Operating, LLC, BC Federal #1 (flowline), Located in Unit Letter O, Section 20, Township 17 South, Range 32 East, Lea County, New Mexico.

Mr. Johnson:

Tetra Tech, Inc. was contacted by COG Operating, LLC to investigate a spill that occurred at the BC Federal #1 (flowline). The tank battery is located in Unit Letter O, Section 20, Township 17 South, Range 31 East, Lea County, New Mexico. The site is 100' yards south of the tank battery at coordinates N 32.825260° and W 103.791110°. The site is shown on Figures 1 and 2.

Background

The spill occurred on July 30, 2009, as a result of a hole in the header of the SWD main line, releasing 40 barrels of produced water which affected a 20' x 25' area in the pasture. The area was excavated down to a depth of 0.5' - 1.0' and the material was hauled off for proper disposal. The spill location is shown on Figure 3. The C-141 (initial) is included in Appendix C.

Groundwater and Regulatory

The United States Geological Survey (USGS) Well Reports did not list any wells in Section 20. However, Tetra Tech had previously installed a temporary monitor well (TMW) in section 30 to a depth of 180' bgs and did not encounter groundwater. In addition, according to the NMOCD map of Lea County, groundwater in the vicinity of the site is 300' bgs. As such, based on the depth to groundwater, it appears the groundwater for the site appears to be greater than 100' bgs. The water well data is included in Appendix A.

Tetra Tech

10000th Avenue, Suite 100, 78240

Tel: 432 522-5339

Fax: 432 542-1813 www.tetra-tech.com



TETRA TECH

A risk-based evaluation was performed for the Site in accordance with the 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 on the regional groundwater data, the proposed RRAL for TPH is 5,000 mg/kg.

Assessment and Corrective Action

On August 25, 2009, Tetra Tech personnel inspected the facility and collected confirmation samples for TPH, BTEX and chloride. A total of two (2) auger holes were placed in the impacted area to a total depth of 2-2.5'. All collected samples were below the RRAL for BTEX and TPH. An elevated chloride concentration was detected at AH-1 (0-1') of 3,270 mg/kg which declined to 871 mg/kg at 2-2.5'. The area of AH-2 did not show a chloride impact.

On October 14, 2009, Tetra Tech personnel supervised the excavation of the spill area. The area was scraped to a depth of 1.0' below surface and the material hauled to proper disposal. The site was backfilled with clean material. The sample locations and spill area are shown on Figure 3. The sample analyses are summarized in Table 1. Copies of the laboratory reports and chain of custody documents are included in Appendix B.

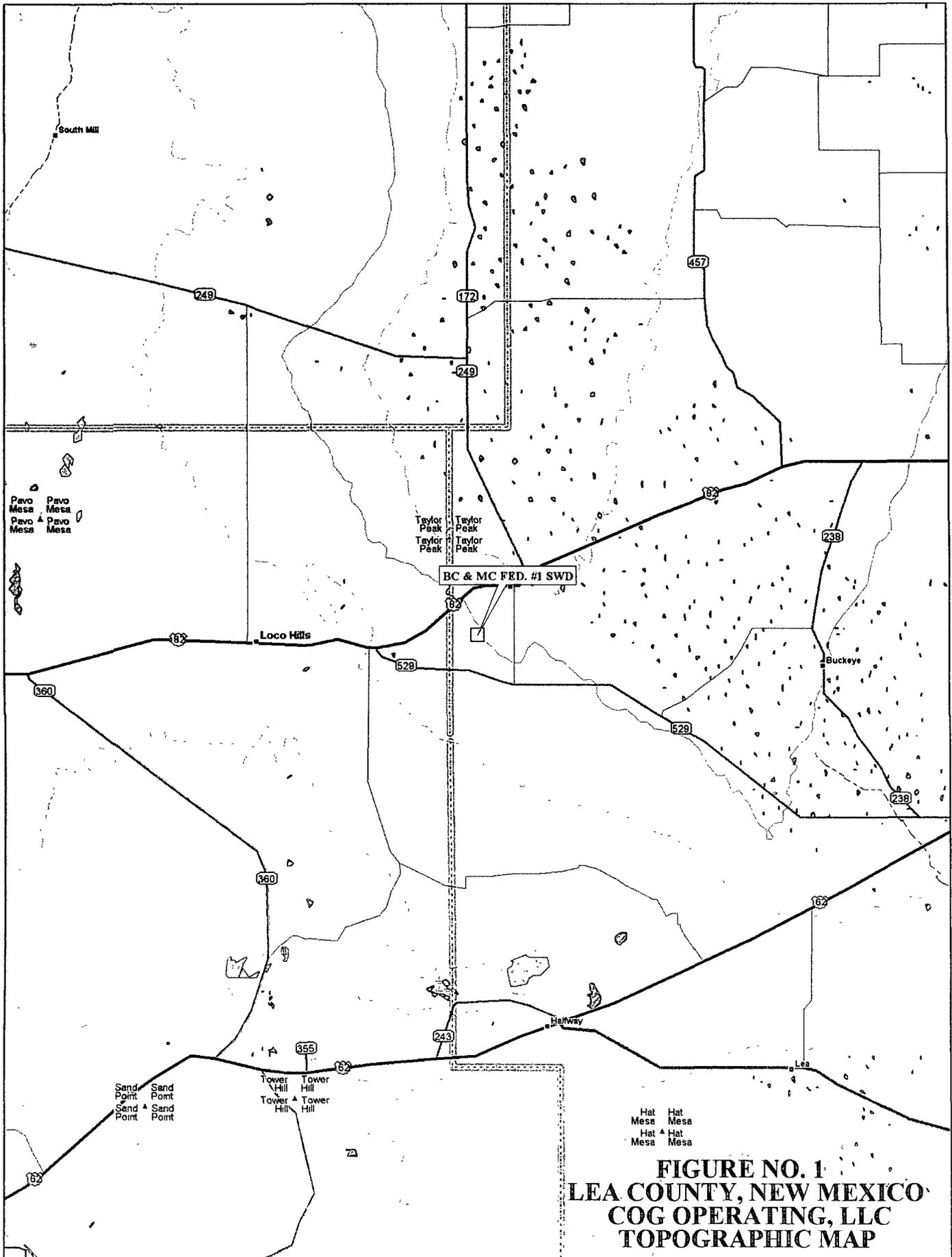
Conclusions

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

Respectfully submitted,
Tetra Tech Inc.

Kim Dorey
Staff Geologist

cc: Pat Ellis – COG
cc: Paul Evans – BLM

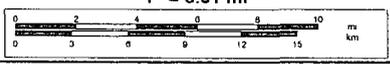


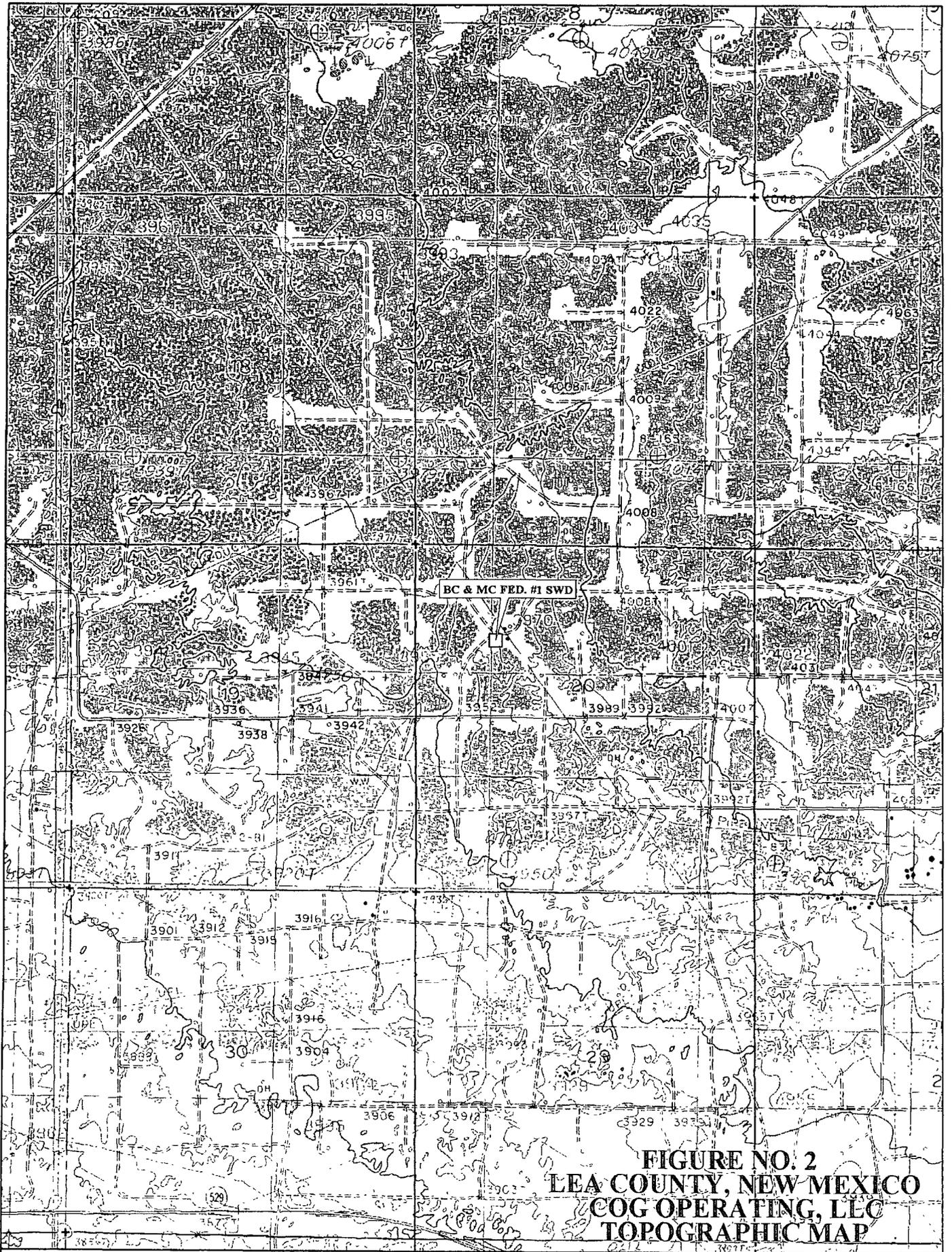
**FIGURE NO. 1
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC
TOPOGRAPHIC MAP**



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www.delorme.com

Scale 1 : 400,000
1" = 6.31 mi

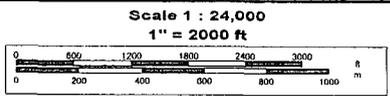


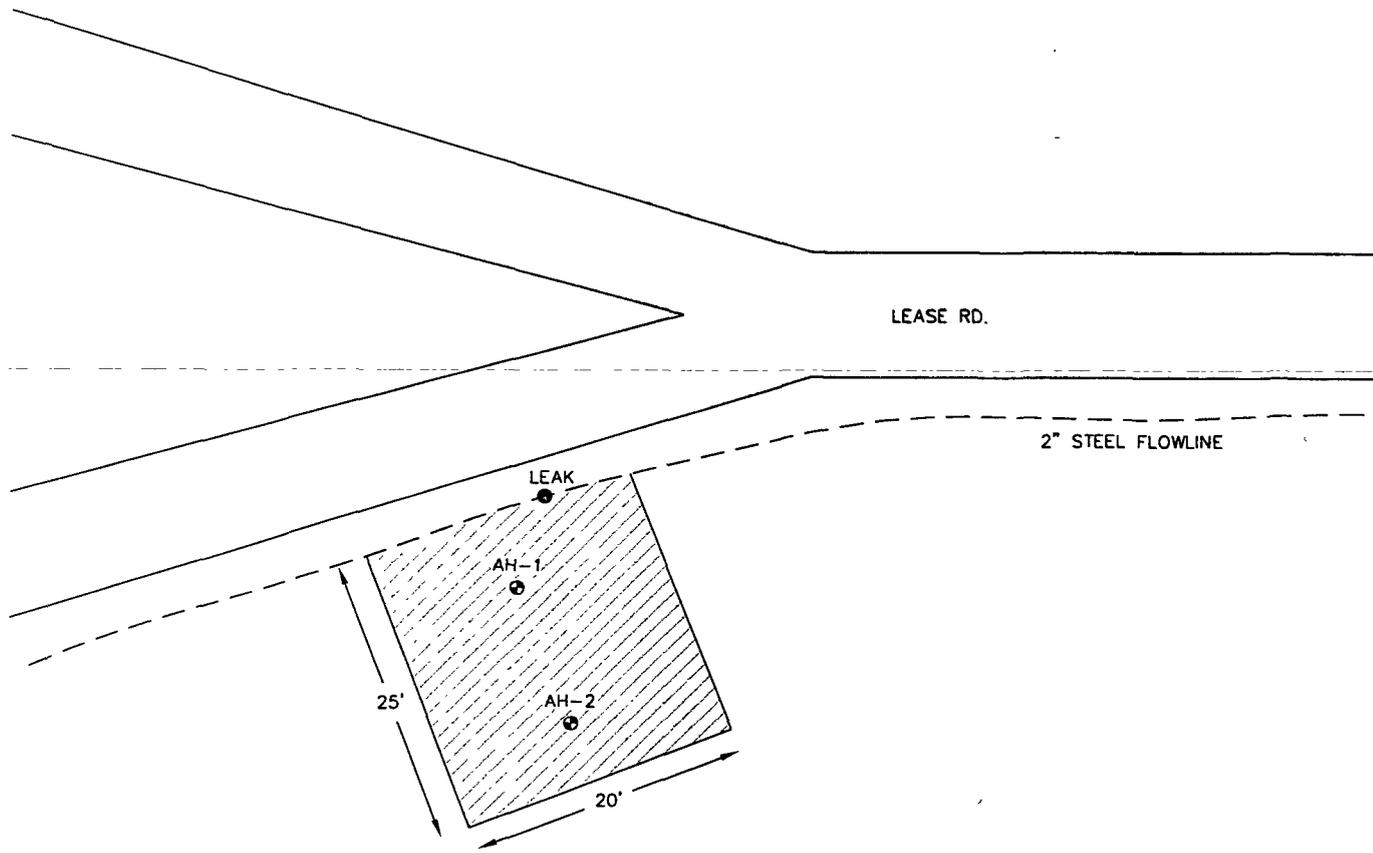


**FIGURE NO. 2
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC
TOPOGRAPHIC MAP**



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LEASE RD.

2" STEEL FLOWLINE

LEAK

AH-1

AH-2

25'

20'

□ SPILL AREA
● SAMPLE LOCATIONS

FIGURE NO. 3

LEA COUNTY, NEW MEXICO

COG OPERATING LLC

BC & MC FED. #1 SWD

TETRA TECH, INC.
MIDLAND, TEXAS

DATE:
8/3/09
DWN. BY:
JJ
FILE:
M:\COG\8400275
BC & MC FED #1 SWD

NOT TO SCALE

Table 1
COG OPERATING LLC
BC / MC FEDERAL #1 SWD
Lea County, New Mexico

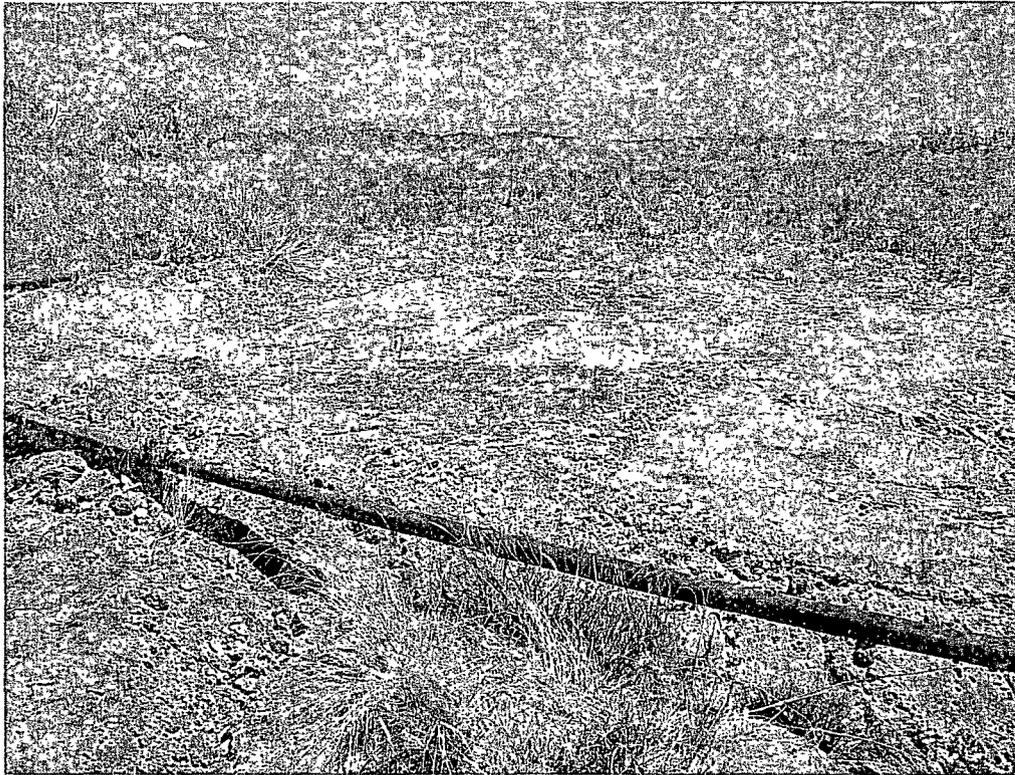
Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	Total					
AH-1	8/25/2009	0-1'		X	<50.0	20.2	20.20	<0.0100	0.183	0.276	0.625	3,270
	8/25/2009	1-1.5'	X		<50.0	1.80	1.80	<0.0100	<0.0100	<0.0100	<0.0100	<200
	8/25/2009	2-2.5'	X		-	-	-	-	-	-	-	871
AH-2	8/25/2009	0-1'	X		<50.0	1.80	<0.001	<0.001	<0.001	<0.001	<0.001	<200
	8/25/2009	1-1.5	X		-	-	-	-	-	-	-	<200
	8/25/2009	2-2.5'	X		-	-	-	-	-	-	-	206

(-) Not Analyzed

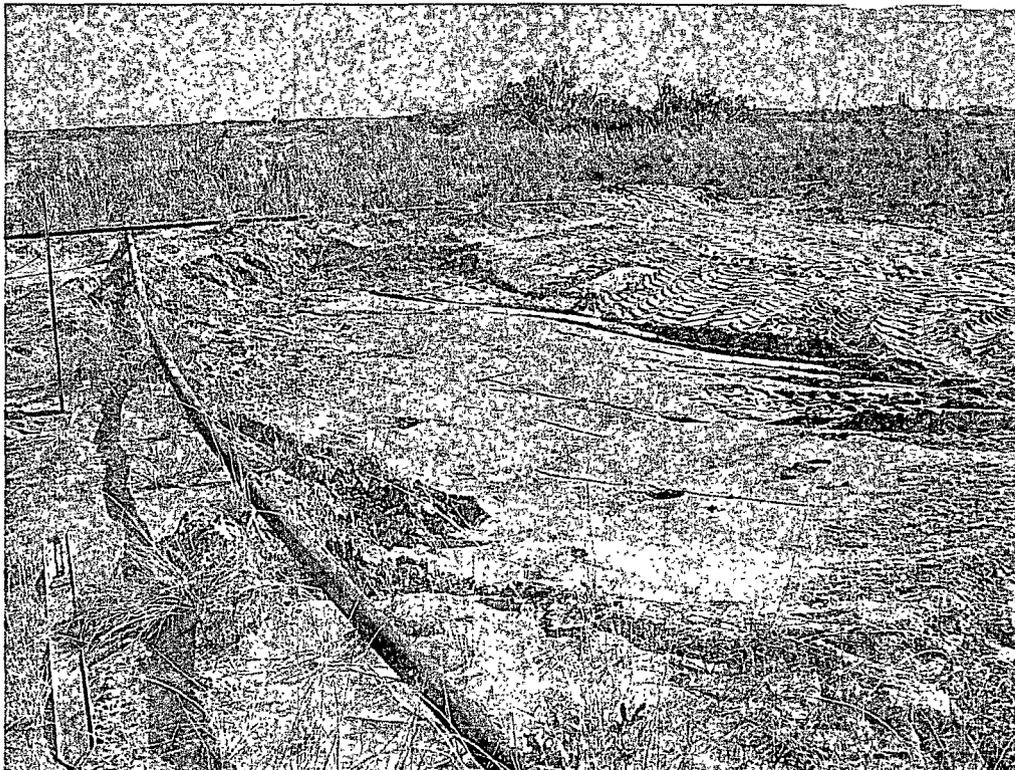
COG Operating LLC
BC Federal #1 Flowline
Lea County, New Mexico



TETRA TECH



Day of assessment 8-25-09



After excavation and backfill 10-13-09

Water Well Data
Average Depth to Groundwater (ft)
COG - BC Federal #1 SWD Flowline
Lea County, New Mexico

16 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
290					

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
			271		

18 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
				261	

16 South 32 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
			65	265	265
					215
		221			215
220		210		210	
				243	
					260

17 South 32 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
		82	175	60	225
				70 88	120
		SITE			
180					

18 South 32 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
			65		
460 82					
		84			
		164		429	
					117

16 South 33 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
	180		130	148	142
	200		182		142
	182	180	175	143	110
				120	
191		190	130	143	120
190	168		160		

17 South 33 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
90			155	158	150
167					
	173	161			
188	180				165
	190			115	
					155

18 South 33 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
	100				143
			62		140
	85			36	60
>140					195
35					
					177

- 88** New Mexico State Engineers Well Reports
- 105** USGS Well Reports
- 90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34** NMOCD - Groundwater Data
- 123** Field water level
- 180** Tetra Tech drilled TMW - Total depth 180' - Dry well

Summary Report

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

Report Date: September 8, 2009

Work Order: 9082838



Project Location: Lea Co., NM
 Project Name: COG/BC/MC Fed. #1 SWD
 Project Number: 114-6400275

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208566	AH-1 (0-1')	soil	2009-08-25	00:00	2009-08-28
208567	AH-1 (1-1.5')	soil	2009-08-25	00:00	2009-08-28
208568	AH-1 (2-2.5')	soil	2009-08-25	00:00	2009-08-28
208569	AH-2 (0-1')	soil	2009-08-25	00:00	2009-08-28
208570	AH-2 (1-1.5')	soil	2009-08-25	00:00	2009-08-28
208571	AH-2 (2-2.5')	soil	2009-08-25	00:00	2009-08-28

Sample - Field Code	BTEX				TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		
208566 - AH-1 (0-1')	<0.0100	0.183	0.276	0.625	<50.0	20.2
208569 - AH-2 (0-1')	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	1.80

Sample: 208566 - AH-1 (0-1')

Param	Flag	Result	Units	RL
Chloride		3270	mg/Kg	4.00

Sample: 208567 - AH-1 (1-1.5')

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

Sample: 208568 - AH-1 (2-2.5')

Param	Flag	Result	Units	RL
Chloride		871	mg/Kg	4.00

Sample: 208569 - AH-2 (0-1')

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

Sample: 208570 - AH-2 (1-1.5')

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

Sample: 208571 - AH-2 (2-2.5')

Param	Flag	Result	Units	RL
Chloride		206	mg/Kg	4.00

TRACE ANALYSIS, INC.

5011 Aberdeen Avenue, Suite 100 Lubbock, Texas 79424 Phone: 807-796-0900 FAX: 807-796-1196
 1001 Arroyo Street, Suite E El Paso, Texas 79902 Phone: 936-526-2129 FAX: 936-526-3430
 5002 Farm Street, Suite A Midland, Texas 79703 Phone: 432-683-6301 FAX: 432-680-6303
 8000 Hamrick Parkway, Suite 111 El Paso, Texas 79907 Phone: 936-771-5200 FAX: 936-771-5200
 E-Mail: info@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA: WFVB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
 LELAP-02003 LELAP-02002
 Kansas E-10317

Analytical and Quality Control Report

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

Report Date: September 8, 2009

Work Order: 9082838



Project Location: Lea Co., NM
 Project Name: COG/BC/MC Fed. #1 SWD
 Project Number: 114-6400275

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
208566	AH-1 (0-1')	soil	2009-08-25	00:00	2009-08-28
208567	AH-1 (1-1.5')	soil	2009-08-25	00:00	2009-08-28
208568	AH-1 (2-2.5')	soil	2009-08-25	00:00	2009-08-28
208569	AH-2 (0-1')	soil	2009-08-25	00:00	2009-08-28
208570	AH-2 (1-1.5')	soil	2009-08-25	00:00	2009-08-28
208571	AH-2 (2-2.5')	soil	2009-08-25	00:00	2009-08-28

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

This report consists of a total of 16 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/BC/MC Fed. #1 SWD were received by TraceAnalysis, Inc. on 2009-08-28 and assigned to work order 9082838. Samples for work order 9082838 were received intact at a temperature of 10.9 deg. 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	53903	2009-08-31 at 14:00	63149	2009-08-31 at 05:42
Chloride (Titration)	SM 4500-Cl B	53998	2009-09-04 at 09:00	63276	2009-09-04 at 13:29
Chloride (Titration)	SM 4500-Cl B	53999	2009-09-04 at 09:01	63277	2009-09-04 at 13:30
TPH DRO	Mod. 8015B	53845	2009-08-31 at 11:57	63088	2009-08-31 at 11:57
TPH GRO	S 8015B	53903	2009-08-31 at 14:00	63148	2009-09-01 at 06:10

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9082838 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.

Analytical Report

Sample: 208566 - AH-1 (0-1')

Laboratory: Midland	Analytical Method: S 8021B	Prep Method: S 5035
Analysis: BTEX	Date Analyzed: 2009-08-31	Analyzed By: AG
QC Batch: 63149	Sample Preparation: 2009-08-31	Prepared By: AG
Prep Batch: 53903		

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		0.183	mg/Kg	1	0.0100
Ethylbenzene		0.276	mg/Kg	1	0.0100
Xylene		0.625	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.01	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.23	mg/Kg	1	2.00	62	45.2 - 144.3

Sample: 208566 - AH-1 (0-1')

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-09-04	Analyzed By: AR
QC Batch: 63276	Sample Preparation: 2009-09-04	Prepared By: AR
Prep Batch: 53998		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3270	mg/Kg	100	4.00

Sample: 208566 - AH-1 (0-1')

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO	Date Analyzed: 2009-08-31	Analyzed By: kg
QC Batch: 63088	Sample Preparation: 2009-08-31	Prepared By: kg
Prep Batch: 53845		

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-Triacontane		112	mg/Kg	1	100	112	13.2 - 219.3

Sample: 208566 - AH-1 (0-1')

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 63148 Date Analyzed: 2009-09-01 Analyzed By: AG
Prep Batch: 53903 Sample Preparation: 2009-08-31 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		20.2	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.87	mg/Kg	1	2.00	94	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	31 - 135

Sample: 208567 - AH-1 (1-1.5')

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 63276 Date Analyzed: 2009-09-04 Analyzed By: AR
Prep Batch: 53998 Sample Preparation: 2009-09-04 Prepared By: AR

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

Sample: 208568 - AH-1 (2-2.5')

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 63276 Date Analyzed: 2009-09-04 Analyzed By: AR
Prep Batch: 53998 Sample Preparation: 2009-09-04 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		871	mg/Kg	50	4.00

Sample: 208569 - AH-2 (0-1')

Laboratory: Midland	Analytical Method: S 8021B	Prep Method: S 5035
Analysis: BTEX	Date Analyzed: 2009-08-31	Analyzed By: AG
QC Batch: 63149	Sample Preparation: 2009-08-31	Prepared By: AG
Prep Batch: 53903		

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)		2.01	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	2.00	56	45.2 - 144.3

Sample: 208569 - AH-2 (0-1')

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-09-04	Analyzed By: AR
QC Batch: 63276	Sample Preparation: 2009-09-04	Prepared By: AR
Prep Batch: 53998		

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

Sample: 208569 - AH-2 (0-1')

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO	Date Analyzed: 2009-08-31	Analyzed By: kg
QC Batch: 63088	Sample Preparation: 2009-08-31	Prepared By: kg
Prep Batch: 53845		

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-Triacontane		116	mg/Kg	1	100	116	13.2 - 219.3

Sample: 208569 - AH-2 (0-1')

Laboratory: Midland	Analytical Method: S 8015B	Prep Method: S 5035
Analysis: TPH GRO	Date Analyzed: 2009-09-01	Analyzed By: AG
QC Batch: 63148	Sample Preparation: 2009-08-31	Prepared By: AG
Prep Batch: 53903		

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1.80	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.90	mg/Kg	1	2.00	95	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	2.00	62	31 - 135

Sample: 208570 - AH-2 (1-1.5')

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-09-04	Analyzed By: AR
QC Batch: 63276	Sample Preparation: 2009-09-04	Prepared By: AR
Prep Batch: 53998		

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

Sample: 208571 - AH-2 (2-2.5')

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-09-04	Analyzed By: AR
QC Batch: 63277	Sample Preparation: 2009-09-04	Prepared By: AR
Prep Batch: 53999		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		206	mg/Kg	50	4.00

Method Blank (1) QC Batch: 63088

QC Batch: 63088	Date Analyzed: 2009-08-31	Analyzed By: kg
Prep Batch: 53845	QC Preparation: 2009-08-31	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-Triacontane		98.8	mg/Kg	1	100	99	13 - 178.5

Method Blank (1) QC Batch: 63148

QC Batch: 63148 Date Analyzed: 2009-09-01 Analyzed By: AG
Prep Batch: 53903 QC Preparation: 2009-08-31 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/Kg	1	2.00	93	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.41	mg/Kg	1	2.00	70	38.1 - 146.2

Method Blank (1) QC Batch: 63149

QC Batch: 63149 Date Analyzed: 2009-08-31 Analyzed By: AG
Prep Batch: 53903 QC Preparation: 2009-08-31 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.23	mg/Kg	1	2.00	62	51.9 - 128.1

Method Blank (1) QC Batch: 63276

QC Batch: 63276 Date Analyzed: 2009-09-04 Analyzed By: AR
Prep Batch: 53998 QC Preparation: 2009-09-04 Prepared By: AR

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

Method Blank (1) QC Batch: 63277

QC Batch: 63277 Date Analyzed: 2009-09-04 Analyzed By: AR
Prep Batch: 53999 QC Preparation: 2009-09-04 Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 63088 Date Analyzed: 2009-08-31 Analyzed By: kg
Prep Batch: 53845 QC Preparation: 2009-08-31 Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	167	mg/Kg	1	250	<5.86	67	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	176	mg/Kg	1	250	<5.86	70	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-Triacontane	92.1	95.6	mg/Kg	1	100	92	96	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 63148 Date Analyzed: 2009-09-01 Analyzed By: AG
Prep Batch: 53903 QC Preparation: 2009-08-31 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.0	mg/Kg	1	20.0	<0.482	80	60.5 - 120.1

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	15.0	mg/Kg	1	20.0	<0.482	75	60.5 - 120.1	6	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	1.91	mg/Kg	1	2.00	96	96	78.8 - 124.7
4-Bromofluorobenzene (4-BFB)	1.65	1.55	mg/Kg	1	2.00	82	78	66.1 - 128.3

Laboratory Control Spike (LCS-1)

QC Batch: 63149
Prep Batch: 53903

Date Analyzed: 2009-08-31
QC Preparation: 2009-08-31

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.87	mg/Kg	1	2.00	<0.00100	94	72.7 - 129.8
Toluene	1.88	mg/Kg	1	2.00	<0.00100	94	71.6 - 129.6
Ethylbenzene	1.90	mg/Kg	1	2.00	<0.00110	95	70.8 - 129.7
Xylene	5.42	mg/Kg	1	6.00	<0.00360	90	70.9 - 129.4

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
Benzene	1.88	mg/Kg	1	2.00	<0.00100	94	72.7 - 129.8	0	20
Toluene	1.93	mg/Kg	1	2.00	<0.00100	96	71.6 - 129.6	3	20
Ethylbenzene	1.96	mg/Kg	1	2.00	<0.00110	98	70.8 - 129.7	3	20
Xylene	5.59	mg/Kg	1	6.00	<0.00360	93	70.9 - 129.4	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)	2.01	1.95	mg/Kg	1	2.00	100	98	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.32	1.31	mg/Kg	1	2.00	66	66	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 63276
Prep Batch: 53998

Date Analyzed: 2009-09-04
QC Preparation: 2009-09-04

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<2.18	101	85 - 115

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	13.2	mg/Kg	1	20.0	<0.482	66	12.8 - 175.2

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	13.2	mg/Kg	1	20.0	<0.482	66	12.8 - 175.2	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)	1.80	1.82	mg/Kg	1	2	90	91	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.27	1.24	mg/Kg	1	2	64	62	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 208569

QC Batch: 63149
Prep Batch: 53903

Date Analyzed: 2009-08-31
QC Preparation: 2009-08-31

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.62	mg/Kg	1	2.00	<0.00100	81	58.6 - 165.2
Toluene	1.70	mg/Kg	1	2.00	<0.00100	85	64.2 - 153.8
Ethylbenzene	1.75	mg/Kg	1	2.00	<0.00110	88	61.6 - 159.4
Xylene	4.89	mg/Kg	1	6.00	<0.00360	82	64.4 - 155.3

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
Benzene	1.97	mg/Kg	1	2.00	<0.00100	98	58.6 - 165.2	20	20
Toluene	¹ 2.11	mg/Kg	1	2.00	<0.00100	106	64.2 - 153.8	22	20
Ethylbenzene	² 2.21	mg/Kg	1	2.00	<0.00110	110	61.6 - 159.4	23	20
Xylene	³ 6.24	mg/Kg	1	6.00	<0.00360	104	64.4 - 155.3	24	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)	2.03	2.00	mg/Kg	1	2	102	100	76 - 127.9
4-Bromofluorobenzene (4-BFB)	^{4 5} 1.09	1.14	mg/Kg	1	2	54	57	72 - 127.8

¹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

²MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

³MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁴Surrogate out due to peak interference.

⁵Surrogate out due to peak interference.

Report Date: September 8, 2009
114-6400275

Work Order: 9082838
COG/BC/MC Fed. #1 SWD

Page Number: 16 of 16
Lea Co., NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2009-09-04

Standard (CCV-1)

QC Batch: 63277

Date Analyzed: 2009-09-04

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	2009-09-04

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 Kanicia Carrillo
Address 550 W. Texas, Suite 100 Midland, TX 79701	Telephone No. 432-685-4332
Facility Name - Pronghorn 529 Truck Site	Facility Type- Battery

Surface Owner Federal	Mineral Owner	Lease No. ROW#NM72767
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LOCATION OF RELEASE

NEAREST WELL PEARSAZL BX 002
API # 30-025-00822-00-00

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	34	17S	32E					Lea

Latitude N 32 37.332' Longitude W 103 45.193'

NATURE OF RELEASE

Type of Release- Produced water	Volume of Release-270 bbls	Volume Recovered- 250 bbls
Source of Release- Transfer pump	Date and Hour of Occurrence- 12/17/09	Date and Hour of Discovery 12/17/09
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson, Geoffrey Leking, Paul Evans	
By Whom? Rick Wright	Date and Hour 12/18/09 1:47pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

WATER @ 45'

Describe Cause of Problem and Remedial Action Taken.*
A Discharged hose failed on the transfer pump. The hose has been replaced with a high pressure hose.

Describe Area Affected and Cleanup Action Taken.*
All fluid was contained within the firewall which is lined with 40 mil plastic.

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:	OIL CONSERVATION DIVISION	
Printed Name: Kanicia Carrillo	Approved by ENV. ENGINEER / District Supervisor:	
Title: Regulatory Analyst	Approval Date: 01/21/10	Expiration Date: 03/22/10
E-mail Address: kcarrillo@conchoresources.com	Conditions of Approval: GROSS CONTAMINATION SHOULD BE REMEDIATED, SUBMIT FINAL C-141 BY	Attached <input type="checkbox"/> IRP-10-T-2400
Date: 01/06/10 Phone: 432-685-4332		

* Attach Additional Sheets If Necessary

FGRL 1002159942

SITE INFORMATION

Report Type: Assessment and Closure Report

General Site Information:

Site:	BC Federal #1 Flowline	
Company:	COG Operating LLC	
Section, Township and Range	Section 20, T17S, R32 E	Unit Letter - O
Lease Number:	API-30-025-34773	
County:	Lea County	
GPS:	32.82638° N, 103.79204° W	
Surface Owner:	BLM	
Mineral Owner:		
Directions:	From Maljamar, South on CR126 to Conoco Road, go west 0.3 miles, North 0.3 miles, west 0.8 miles, north 0.2 miles, west 0.3 to pasture area on left (100 yards south of tank battery)	

Release Data:

Date Released:	7/30/2009
Type Release:	Oil and Produced water
Source of Contamination:	Header in mainline leaked
Fluid Released:	40 Barrels
Fluids Recovered:	10 barrels

Official Communication:

Name:	Pat Ellis	Kim Dorey
Company:	COG Operating, LLC	Tetra Tech
Address:	550 W. Texas Ave. Ste. 1300	1910 N. Big Spring
P.O. Box		
City:	Midland Texas, 79701	Midland, Texas
Phone number:	(432) 686-3023	(432) 631-0348
Fax:	(432) 684-7137	
Email:	pellis@conchoresources.com	kim.dorey@tetrattech.com

Ranking Criteria:

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	greater than 100'
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:		0

Acceptable Soil RRAL (mg/kg)

Benzene	Total BTEX	TPH
10	50	5,000