

October 19, 2017

Mike Bratcher  
Oil Conservation Division, District 2  
811 S First St.  
Artesia, NM 88210

Shelly Tucker  
Bureau of Land Management  
620 E. Green St.  
Carlsbad, NM 88220

Re: Deferment Request Letter  
Foster Eddy #011 (2RP-3574)  
API #: 30-015-26231  
Unit Letter J Section 17, Township 17S, Range 31E  
Eddy County, NM

Mr. Bratcher/Ms. Tucker,

COG Operating, LLC (COG) is pleased to submit for your consideration the following deferral request for the Foster Eddy #11. This release occurred on February 12, 2016 and impacted an area of pasture adjacent to Foster Eddy #011 well pad. Background information, laboratory results, summary of remedial actions, and deferment requested are submitted herein.

### **Background**

On February 12, 2016, a poly flowline ruptured resulting in the release of approximately 3bbls of oil and 2bbls of produced water into the pasture adjacent to the Foster Eddy #011 well pad. A vacuum truck was dispatched to the site to recover freestanding fluids. Approximately 2bbls of oil and 1bbl of produced water were recovered.

On March 16, 2016, COG personnel conducted soil sampling within the impacted area in preparation for the construction of a remediation work plan (laboratory results are summarized in the tables below). Due to safety concerns presented by the three (3) gas lines intersecting the impacted area (see attached site diagram) vertical delineation by mechanical means was impossible prior to beginning remediation activities.

On July 25, 2016, the Bureau of Land Management (BLM) issued approval of the remediation work plan. On July 26, 2016, the New Mexico Oil Conservation Division (NMOCD) also approved the remediation work plan.

## Ground water and Site Ranking

Based on the 2005 Chevron Texaco ground water trend map, ground water in the project vicinity is approximately 325-feet below ground surface (BGS). The New Mexico Office of the State Engineer's Water Rights Reporting System does not indicate water in any of the wells within the project vicinity. Therefore the site ranking for this release is zero (0) based on the following:

Depth to ground water	>100-feet
Distance to surface water body	>1000-feet
Wellhead Protection Area	>1000-feet

## Laboratory Results

Initial Sampling Event March 16, 2016

Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
S1	1	2.72	194	2120	2500	13800
S1	2	4.67	285	496	3160	15900
S1	3	<0.050	5.44	528	44.2	355
S1	4	<0.50	<0.300	48	<10.0	<10.0
S1	5	<0.050	<0.300	336	<10.0	10
S2	1	3.69	273	7860	3240	11200
S2	2	5.79	411	4400	4050	11000
S2	3	3.21	294	3760	4150	11900
S2	4	<2.00	241	3840	2760	8330
S2	5	<2.00	194	3840	2660	8290
S3	1	<0.050	5.01	4400	67.2	632
S3	2	<0.050	<0.300	1680	<10.0	<10.0
S3	3	<0.050	<0.300	144	<10.0	<10.0
S3	4	<0.050	<0.300	64	<10.0	<10.0
S3	5	<0.050	<0.300	144	<10.0	107

Delineation Sampling Event September 12, 2016

Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
S2	7	<1.00	263	3840	2480	8160
S2	9	<1.00	190	4480	2100	8580

### **Remedial Actions**


- The impacted area in the vicinity of sample locations S1 and S3 were excavated to a depth of 3-feet BGS.
- The impacted area in the vicinity of sample location S2 was excavated to a depth of 9-feet BGS. This was the maximum depth feasible without threatening the surrounding pipelines and posing a safety risk to personnel in the area.
- All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with sand, contoured to match the surrounding terrain and seeded with BLM LPC seed mixture.

### **Deferral Request**

Due to the underground infrastructure present at this location and the safety hazards associated with any further excavation activities COG Operating, LLC respectfully requests that any further remedial activities be deferred until abandonment of the conflicting infrastructure.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,



Sheldon L. Hitchcock  
HSE Coordinator  
[slhitchcock@concho.com](mailto:slhitchcock@concho.com)

Enclosed:

- (1) Site Diagram
- (2) Laboratory Analytical Reports and Chain-of-Custody Forms
- (3) Initial C-141
- (4) Final C-141

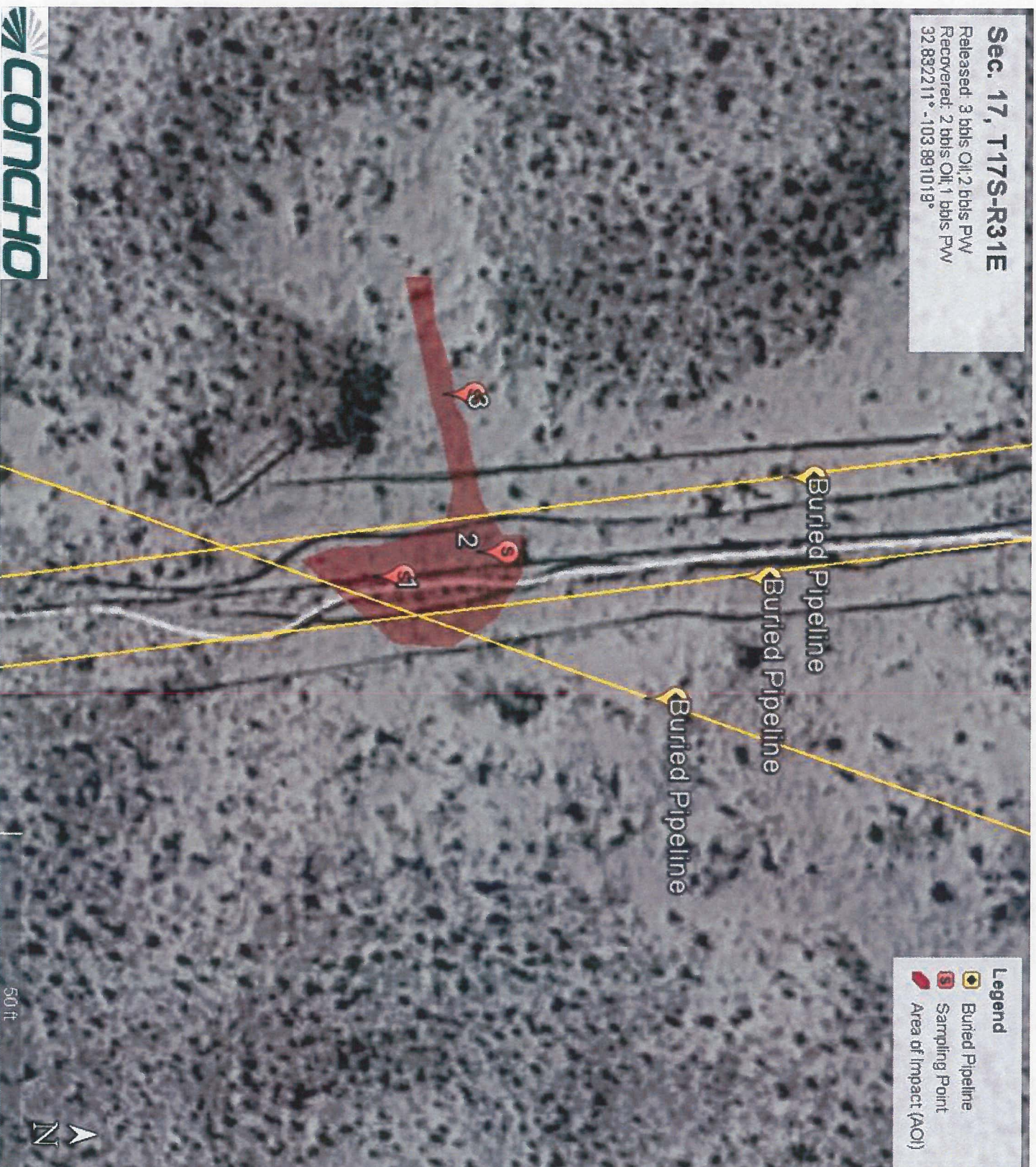


July 15, 2016

Foster Eddy #11 30-015-26231

# Sec. 17, T17S-R31E

Released: 3 bbls Oil; 2 bbls PW  
Recovered: 2 bbls Oil; 1 bbls PW  
32.832211° -103.881018°





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

March 31, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: FOSTER EDDY #11 (TB) (YESO)

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab/accred/certif.html](http://www.tceq.texas.gov/field/qa/lab/accred/certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1 - 1' (H600630-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.72</b>	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600	
<b>Toluene*</b>	<b>43.8</b>	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817	
<b>Ethylbenzene*</b>	<b>51.5</b>	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60	
<b>Total Xylenes*</b>	<b>96.0</b>	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288	
<b>Total BTEX</b>	<b>194</b>	12.0	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2120</b>	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>2500</b>	200	03/24/2016	ND	196	97.9	200	3.19		
<b>DRO &gt;C10-C28</b>	<b>13800</b>	200	03/24/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 674 % 35-147

Surrogate: 1-Chlorooctadecane 1150 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 DAKOTA NEEL  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 03/23/2016  
 Reported: 03/31/2016  
 Project Name: FOSTER EDDY #11 (TB) (YESO)  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - 2' (H600630-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>4.67</b>	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600	
<b>Toluene*</b>	<b>69.9</b>	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817	
<b>Ethylbenzene*</b>	<b>74.8</b>	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60	
<b>Total Xylenes*</b>	<b>136</b>	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288	
<b>Total BTEX</b>	<b>285</b>	12.0	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>496</b>	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>3160</b>	200	03/24/2016	ND	196	97.9	200	3.19		
<b>DRO &gt;C10-C28</b>	<b>15900</b>	200	03/24/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 305 % 35-147

Surrogate: 1-Chlorooctadecane 382 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 DAKOTA NEEL  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 03/23/2016  
 Reported: 03/31/2016  
 Project Name: FOSTER EDDY #11 (TB) (YESO)  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - 3' (H600630-03)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<b>0.339</b>	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<b>1.56</b>	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<b>3.53</b>	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	<b>5.44</b>	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>528</b>	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>44.2</b>	10.0	03/24/2016	ND	196	97.9	200	3.19	QM-07
DRO >C10-C28	<b>355</b>	10.0	03/24/2016	ND	200	99.8	200	7.50	QM-07

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 90.7 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1 - 4' (H600630-04)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	<0.300	0.300	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 99.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 88.4 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1 - 5' (H600630-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	<0.300	0.300	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 83.8 % 35-147

Surrogate: 1-Chlorooctadecane 96.1 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 DAKOTA NEEL  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 03/23/2016  
 Reported: 03/31/2016  
 Project Name: FOSTER EDDY #11 (TB) (YESO)  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2 - 1' (H600630-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>3.69</b>	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600	
<b>Toluene*</b>	<b>72.0</b>	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817	
<b>Ethylbenzene*</b>	<b>67.2</b>	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60	
<b>Total Xylenes*</b>	<b>130</b>	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288	
<b>Total BTEX</b>	<b>273</b>	12.0	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>7860</b>	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>3240</b>	100	03/25/2016	ND	196	97.9	200	3.19		
<b>DRO &gt;C10-C28</b>	<b>11200</b>	100	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 184 % 35-147

Surrogate: 1-Chlorooctadecane 265 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2 - 2' (H600630-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>5.79</b>	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600	
<b>Toluene*</b>	<b>116</b>	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817	
<b>Ethylbenzene*</b>	<b>106</b>	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60	
<b>Total Xylenes*</b>	<b>182</b>	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288	
<b>Total BTEX</b>	<b>411</b>	12.0	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4400</b>	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>4050</b>	100	03/25/2016	ND	196	97.9	200	3.19		
<b>DRO &gt;C10-C28</b>	<b>11000</b>	100	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 175 % 35-147

Surrogate: 1-Chlorooctadecane 262 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2 - 3' (H600630-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.21	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	78.0	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	77.1	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	136	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	294	12.0	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4150	100	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	11900	100	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 184 % 35-147

Surrogate: 1-Chlorooctadecane 289 % 28-171

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2 - 4' (H600630-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	58.3	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	65.5	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	117	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	241	12.0	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2760	100	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	8330	100	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 161 % 35-147

Surrogate: 1-Chlorooctadecane 190 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2 - 5' (H600630-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	45.5	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	52.3	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	96.7	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTEX	194	12.0	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2660	100	03/25/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	8290	100	03/25/2016	ND	200	99.8	200	7.50	

Surrogate: 1-Chlorooctane 168 % 35-147

Surrogate: 1-Chlorooctadecane 206 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 1' (H600630-11)**

BTEX 8021B			mg/kg		Analyzed By: MS				QM-07	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25		
Toluene*	0.431	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05		
Ethylbenzene*	1.31	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63		
Total Xylenes*	3.28	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62		
Total BTEX	5.01	0.300	03/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 73.6-140

Chloride, SM4500Cl-B			mg/kg				Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	<b>4400</b>	16.0	03/24/2016	ND	400	100	400	3.92			

TPH 8015M			mg/kg				Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<b>67.2</b>	10.0	03/25/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	<b>632</b>	10.0	03/25/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 97.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 2' (H600630-12)**

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25			
Toluene*	0.065	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05			
Ethylbenzene*	0.051	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63			
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62			
Total BTEX	<0.300	0.300	03/29/2016	ND							

Surrogate: 4-Bromofluorobenzene (PII) 100 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/25/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50	

Surrogate: 1-Chlorooctane 87.5 % 35-147

Surrogate: 1-Chlorooctadecane 87.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 3' (H600630-13)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 101 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/25/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50	

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 90.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 DAKOTA NEEL  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 03/23/2016  
 Reported: 03/31/2016  
 Project Name: FOSTER EDDY #11 (TB) (YESO)  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S3 - 4' (H600630-14)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25		
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05		
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63		
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62		
Total BTEX	<0.300	0.300	03/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 85.5 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 03/23/2016  
Reported: 03/31/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 5' (H600630-15)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25		
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05		
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63		
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62		
Total BTEX	<0.300	0.300	03/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	107	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 83.2 % 35-147

Surrogate: 1-Chlorooctadecane 94.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



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Celey D. Keene, Lab Director/Quality Manager







## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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September 27, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: FOSTER EDDY #11 (TB) (YESO)

Enclosed are the results of analyses for samples received by the laboratory on 09/21/16 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/12/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - 7' (H602126-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	09/24/2016	ND	1.82	91.1	2.00	0.992	
Toluene*	47.5	1.00	09/24/2016	ND	1.84	92.1	2.00	0.714	
Ethylbenzene*	73.1	1.00	09/24/2016	ND	1.77	88.4	2.00	0.904	
Total Xylenes*	142	3.00	09/24/2016	ND	5.32	88.7	6.00	1.05	
Total BTEX	263	6.00	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	09/26/2016	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2480	100	09/22/2016	ND	178	89.2	200	7.92		
DRO >C10-C28	8160	100	09/22/2016	ND	176	88.0	200	8.92		

Surrogate: 1-Chlorooctane 299 % 35-147

Surrogate: 1-Chlorooctadecane 196 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL**  
Laboratories

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1051

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: 432-215-2783

Project #:

Project Name: Foster Eddy #11

Project Location:

Sampler Name: Dakota Neel

**BILL TO**

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0398

Fax #:

**ANALYSIS REQUEST**

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Handwritten: H2021240

Handwritten: S2-7'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

9/12/16

TIME

9:00 a.m.

BTEX

x

TPH

x

Chloride

x

PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 9-21-16

Received By:

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Received By:

[dneel2@concho.com](mailto:dneel2@concho.com)

Time:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Handwritten: 3.80c

Sample Condition  
☒ Cool  
☒ Intact  
☐ Yes  
☐ No

CHECKED BY:

Handwritten: [Signature]

5. Please fax written changes to 575-393-2476



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

---

September 27, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: FOSTER EDDY #11 (TB) (YESO)

Enclosed are the results of analyses for samples received by the laboratory on 09/21/16 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: FOSTER EDDY #11 (TB) (YESO)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/12/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - 9' (H602125-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	09/24/2016	ND	1.82	91.1	2.00	0.992	
Toluene*	30.9	1.00	09/24/2016	ND	1.84	92.1	2.00	0.714	
Ethylbenzene*	52.9	1.00	09/24/2016	ND	1.77	88.4	2.00	0.904	
Total Xylenes*	106	3.00	09/24/2016	ND	5.32	88.7	6.00	1.05	
Total BTEX	190	6.00	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	09/26/2016	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2100	100	09/22/2016	ND	178	89.2	200	7.92		
DRO >C10-C28	8580	100	09/22/2016	ND	176	88.0	200	8.92		

Surrogate: 1-Chlorooctane 287 % 35-147

Surrogate: 1-Chlorooctadecane 157 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

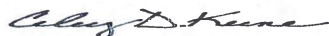
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

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---

Caley D. Keene, Lab Director/Quality Manager



**CARDINAL**  
Laboratories

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10 of 1

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: 432-215-2783

Project #:

Project Name: Foster Eddy #11

Project Location:

Sampler Name: Dakota Neel

**BILL TO**

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

**ANALYSIS REQUEST**

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

S2-9'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

9/12/16

9:00 a.m.

BTEX

x

TPH

x

Chloride

x

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories of damages.

Relinquished By:

Date:

9/21/16

Received By:

Phone Result:

☐ Yes

☐ No

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Phone Result:

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Phone Result:

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Phone Result:

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

9/21/16

Received By:

Phone Result:

☐ Yes

☐ No

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Phone Result:

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Phone Result:

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Phone Result:

☐ Yes

☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

FORM-0007720

s. Please fax written changes to 575-393-2476

# NM OIL CONSERVATION

ARTESIA DISTRICT

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

MAR 01 2016

Form C-141  
Revised August 8, 2011

Submit Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

## Release Notification and Corrective Action

<p><b>NAME</b> <u>NAB1606240430</u> <b>OPERATOR</b> <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report</p>	
<p>Name of Company: COG Operating LLC <u>229137</u> Contact: Robert McNeill</p>	
<p>Address: 600 West Illinois Avenue, Midland TX 79701 Telephone No. 432-230-0077</p>	
<p>Facility Name: FOSTER EDDY #011 Facility Type: Well</p>	

Surface Owner: Federal	Mineral Owner:	API No. 30-015-26231
------------------------	----------------	----------------------

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	17	17S	31E	1650'	South	2160'	East	Eddy

Latitude 32.8318329 Longitude -103.8903885

## NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 3 bbls Oil : 2 bbls PW	Volume Recovered: 2 bbls Oil : 1 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: 2/12/16 1:00 pm	Date and Hour of Discovery: 2/12/16 1:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
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.\*

Describe Cause of Problem and Remedial Action Taken.\*

This release was caused by a poly-flowline. A vacuum truck was dispatched to recover standing fluid.

Describe Area Affected and Cleanup Action Taken.\*

This release occurred in the pasture approximately 275' northeast of the wellhead. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCDD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCDD 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 NMOCDD 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, NMOCDD 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.

<p><b>SIGNATURE</b> <u>Robert Grubbs</u></p>		<p><b>OIL CONSERVATION DIVISION</b></p>	
<p>Signature: <u>Robert Grubbs</u></p>		<p>Approved by Environmental Specialist <u>Signed By: [Signature]</u></p>	
<p>Printed Name: Robert Grubbs</p>		<p>Approval Date: <u>3/2/16</u> Expiration Date: <u>N/A</u></p>	
<p>Title: Senior Environmental Coordinator</p>		<p>Conditions of Approval:</p>	
<p>E-mail Address: rgrubbs@concho.com</p>		<p>Attached <input type="checkbox"/></p>	
<p>Date: February 26, 2016 Phone: 432-230-0077</p>		<p>Remediation per O.C.D. Rules &amp; Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>4/2/16</u></p>	

\* Attach Additional Sheets If Necessary

2RD3574



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 April 3, 2017

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: <b>COG Operating, LLC (OGRID# 229137)</b>	Contact: <b>Robert McNeill</b>
Address: <b>600 West Illinois Avenue, Midland TX 79701</b>	Telephone No.: <b>432-683-7443</b>
Facility Name: <b>Foster Eddy #011</b>	Facility Type: <b>Well</b>

Surface Owner: <b>BLM</b>	Mineral Owner: <b>Federal</b>	API No.: <b>30-015-26231</b>
---------------------------	-------------------------------	------------------------------

### LOCATION OF RELEASE

Unit Letter <b>J</b>	Section <b>17</b>	Township <b>17S</b>	Range <b>31E</b>	Feet from the <b>1650</b>	North/South Line <b>South</b>	Feet from the <b>2160</b>	East/West Line <b>East</b>	County <b>Eddy</b>
-------------------------	----------------------	------------------------	---------------------	------------------------------	----------------------------------	------------------------------	-------------------------------	-----------------------

Latitude: 32.8318329 Longitude: -103.8903885 NAD83

### NATURE OF RELEASE

Type of Release: <b>Oil &amp; Produced Water</b>	Volume of Release: <b>3bbls Oil &amp; 2bbls PW</b>	Volume Recovered: <b>2bbls Oil &amp; 1bbl PW</b>
Source of Release: <b>Flowline</b>	Date and Hour of Occurrence: <b>2/2/2016 1:00pm</b>	Date and Hour of Discovery: <b>2/12/2016 1:00pm</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
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.\*

Describe Cause of Problem and Remedial Action Taken.\*

A poly flowline ruptured resulting in the release of approximately 3bbls of oil and 2bbls of produced water. A vacuum truck was dispatched to the site to recover freestanding fluids. Approximately 2bbls of oil and 1bbl of produced water were recovered.

Describe Area Affected and Cleanup Action Taken.\*

The release occurred in the pasture approximately 275-feet northeast of the wellhead. Concho conducted soil sampling within the impacted area and developed a remediation work plan that was subsequently approved by NMOCD and BLM. The soil remediation at this site was carried out per the approved work plan. Excavation limitations were encountered due to underground pipelines intersecting the impacted area. A deferment request was submitted to NMOCD and BLM.

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>	
		Approved by Environmental Specialist:	
Printed Name: <b>Sheldon L. Hitchcock</b>		Approval Date:	
Title: <b>HSE Coordinator</b>		Expiration Date:	
E-mail Address: <b>slhitchcock@concho.com</b>		Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>10/6/2017</b> Phone: <b>575-746-2010</b>			

\* Attach Additional Sheets If Necessary