Closure Report

APPROVED

REVIEWED

By Kristen Lynch at 9:30 am, Oct 05, 2016

Site Description							
Site Name:	Sopapilla State #001H						
Company:	COG Operating LLC						
Legal Description:	U/L M, Section 2, T23S, R33E						
County:	Lea County, NM						
GPS Coordinates:	N 32.32763° W 103.55012°						

Release Data

Date of Release:	11/06/2015 and 02/03/2016
Type of Release:	Oil
Source of Release:	Dump valve and Closed valve
Volume of Release:	11 bbls and 20 bbls
Volume Recovered:	5 bbls and 19 bbls

Remediation Specifications									
Remediation Parameters:	The spill areas around S1 & S2 from the 11/6/15 spill will be excavated to a depth of 6 inches to 1 foot. The area around S3 for the 11/6/15 spill will be excavated to a depth of 1.5 feet. The area around S1 for the 2/3/16 spill will be surface scraped.								
Remediation Activities:	09/20/2016 to 0	9/26/2016							
Plan Sent to OCD:	08/05/2016	Email from Cliff Brunson to Jamie Keyes							
OCD Approval of Plan:	08/09/2016	Email from Jamie Keyes to Cliff Brunson							
Plan Sent to SLO:	08/05/2016	Email from Cliff Brunson to Amber Groves							
SLO Approval of Plan:	08/18/2016	Email from Amber Groves to Cliff Brunson							

Supporting Documentation							
Initial C-141	Signed 11/13/2015 and 02/15/2016						
Final C-141	Signed 09/28/2016						
Site Diagram	June 2016						
Groundwater Plot	375'						
TOPO Maps	June 2016						
Lab Summary	01/18/2016 and 02/05/2016						
Lab Analysis	01/18/2016 and 02/05/2016						
Correspondence	Request and approval of remediation plan via email						

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

09/28/2016

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Eronoid Dr.

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

1220 S. St. Frai	ncis Dr., Santa I	Fe, NM 87505				fe, NM 875						
			Dal		• • •			_ 4.9		·		
			Kele	ease Notifi	catio		orrective A	ction				
						OPERA		🛛 Ini	tial Report	Final Repor		
	ompany: CC						bert McNeill					
	00 West Illin		, 		_,	<u> </u>	No. 432-230-00	77				
Facility Na	me: SOPAPI	ILLA STAT	E #001]	H		Facility Typ	e: Battery					
Surface Ow	/ner: State			Mineral (Owner			API N	o. 30-025-4	40733		
				LOC	۸. TTC	DN OF REI	TASE					
Unit Letter	Section	Township	Range	Feet from the		th/South Line	Feet from the	East/West Line	1	County		
M						South	380	West		Lea		
				Latitude 32.3	32702	64 Longitude	-103.5504532					
						-						
T CD 1		to de casa		NA	UR	E OF RELI						
Type of Rele	ease:					Volume of 11 bbls	Release:	5 bbls	Recovered:			
Source of Re	lease:						lour of Occurrenc		l Hour of Di	scoverv:		
Dump valve						11/6/2015	10:00 pm		l5 10:00 pm			
Was Immedi	ate Notice Giv		Vac [ארידע ועדיים אודיים <i>ו</i> וע		If YES, To	Whom?					
D 11/1 0			Yes [] No 🛛 Not R	equired							
By Whom?	course Reache	ad?				Date and H		L - 337-4				
was a water	course reache		Yes 🛛	No		If YES, Volume Impacting the Watercourse.						
	urse was Impa											
	arse was impa	letta, Deserit	c runy.									
Degariho Cat	ise of Problem	and Romadi	al Antin	Talson å								
					ronerh	v causing the oi	l to be sent to the	flare A vacuum	truck was die	spatched to recover		
the standing		oxi uuing	,	ro not nothing p	vopen.	, ouusing the of	i to be bene to the	najo, zx vaodam	utter was an	spacenea to recover		
-												
Dogoriho Ara	a Affected and	d Cleanun A	tion Tal									
Describe Are	a Affecteu and	u Cleanup Au	chon rak	en.								
This release i	impacted the p	oasture near t	he battery	y. Concho will ha	ve the	spill site sampl	ed to delineate an	y possible contar	nination fron	n the release and we		
							nt remediation wo					
I hereby certi	fy that the inf	ormation giv	en above	is true and comp	lete to	the best of my	knowledge and u		suant to NM	IOCD rules and		
							d perform correct					
public health	or the enviror	nment. The a	cceptanc	e of a C-141 repo	ort by t	he NMOCD ma	urked as "Final Re	eport" does not re	lieve the ope	rator of liability		
should their o	operations hav	e failed to ad	lequately	investigate and r	emedia	te contaminatio	on that pose a thre	at to ground wate	er, surface wa	ater, human health		
	nment. In add or local laws			tance of a C-141	report	does not relieve	e the operator of r	esponsibility for	compliance v	with any other		
Touorai, state,	or rocar laws	and/or regula					OIL CONS	SERVATION	חאומו	<u>)</u> N		
	-1	-/ac	-ie	la					10141010			
Signature:	U	/				I				I		
Printed Name	e: Amanda Tr	utillo Dovio				Approved by	Environmental Sp	ecialist:				
	2. Annaniaa If					I						
Title: Senior	Environmenta	l Coordinato	r			Approval Date	.	Expiration	Date:			
E mail Adda	an atmille	aanaha aarr				Conditions - C	A					
E-mail Addre	ss: <u>atrujillo@</u>	concho.com				Conditions of	Approval:		Attached			
Date: Nover	Date: November 13, 2015 Phone: 575-748-6940											

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 August 8, 2011

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

1220 5. 50. 1140	cio Di, buile			Sant	ta Fe	e, NM 875	05					
Release Notification and Corrective Action												
						OPERAT	FOR	\boxtimes	Initial	Report		Final Report
Name of Co	mpany: C	OG Operatin	1g LLC			Contact: Robert McNeill						
Address: 60				t TX 79701		Telephone N	lo. 432-230-007	7				
Facility Nar	Facility Name: SOPAPILLA STATE #001H					Facility Typ	e: Battery					
Surface Ow	ner: State			Mineral Ow	ner:			AI	PI No. 1	30-025-4	0733	
				LOCAT	IOI	N OF REI	LEASE		,			
Unit Letter	Section	Township	Range			/South Line	Feet from the	East/West I	line		Count	у
M	M 2 238 33E 190'						380	West			Lea	
				Latitude 32.327	70264	4 Longitude	-103.5504532					
				NATU	RE	OF RELE	EASE					
Type of Relea	ase:					Volume of	Release:			covered:		
Oil Source of Rel						20 bbls	our of Occurrence	19 b				
Closed Valve						2/3/2016 7:			2016 7:	our of Dis 00 pm	covery:	
Was Immedia		iven?				If YES, To						
			Yes 🗌	No 🖾 Not Requ	ired							
By Whom?						Date and H						
Was a Watero	course Reac	_	Yes 🖂	No		If YES, Vo	lume Impacting th	ne Watercour	se.			
If a Watercou	rse was Imp	acted, Descri	be Fully.*									
Describe Cau						lu and to boot				A a 1 a a 4 a		
				ring the process the vacuum truck was d				was never re	openeo	, As neate	r ioss p	ressure fiuta
-,,												
D 1 1	+ CC + 1											
Describe Area	a Affected a	nd Cleanup A	ction Take	en.*								
This release o	ccurred prin	narily at the f	lare within	the flare containme	ent ar	d impacted th	e pasture nearby.	Concho will	have th	e spill site	sample	ed to
delineate any	possible co			ease and we will pr								
remediation w	vork,											
I herehy certif	fy that the ir	formation giv	en ahove	is true and complete	e to th	e hest of my l	cnowledge and ur	derstand that	nursua	nt to NM(CD ru	les and
				d/or file certain relea								
				e of a C-141 report l								
should their of	perations ha	we failed to a	dequately:	investigate and rem	ediate	e contaminatio	on that pose a thre	at to ground	water, s	urface wa	ter, hur	nan health
federal, state,				ance of a C-141 rep	orta	bes not relieve	the operator of r	esponsibility	tor con	ipiiance w	ith any	other
		<u></u>					OIL CONS	ERVATI	ON D	IVISIO	N	
			1				022 0011		0112		<u>* `</u>	
	TZ.L	at Har	F	I	2						T	
Signature:	•				/	Approved by I	Environmental Sp	ecialist:				
Printed Name	: Robert Gr	ubbs										
Title: Senior H		tal Coordinate				Approval Date		Evnira	tion Da	te.		
THE DUILD I		ui coorumau	/1			xpprovar Date						
E-mail Addres	ss: rgrubbs@	econcho.com			(Conditions of	Approval:			Attached		
Date: Februa	iry 15, 2016		Phone;	432-230-0077								

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

			Kele	ease motific	allo	n and Co	orrective A	ction	l.			
						OPERA	ΓOR		🔲 Initia	al Report	\boxtimes	Final Repor
Name of Co	mpany: C	OG Operati	ng LLC		[Contact: Ro	bert McNeill					
Address: 60		Telephone N	No. 432-230-00	77								
Facility Name: Sopapilla State #001H						Facility Typ						
							4		Ţ			
Surface Ow	ner: State			Mineral C	wner:				API No	. 30-025-4	10733	
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	1/South Line	Feet from the	East/V	Vest Line	County		
м	2	23\$	33E	190		South	380		West	Lea Count	iy, NM	l
			1	Latitude <u>N 32.3</u>	<u>2804°</u>	Longitu	ide <u>W 103.5501</u>	<u>5°</u>				
				NAT	URE	OF REL	EASE	-	6			
Type of Rele	ase: Oil					Volume of	Volume of Release: 11 bbls Volume Recovered: 5 bbls					
Source of Re	lease: Durr	p valve					lour of Occurrence	e		Hour of Dis		7
							5 @ 10:00 pm		11/06/201	5 @ 10:00	pm	
Was Immedi	ate Notice (–			If YES, To	Whom?					
			Yes 🗌	No 🖾 Not Re	equired							
By Whom?						Date and F	lour:					
Was a Water	course Read	hed?	Yes 🗵	No		If YES, Vo	olume Impacting	he Wate	ercourse.			
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	*								

Describe Cause of Problem and Remedial Action Taken.*

This release was caused by an oil dump on the KO not working properly causing the oil to be sent to the flare. A vacuum truck was dispatched to recover all free-standing fluids.

Describe Area Affected and Cleanup Action Taken.*

This release impacted the pasture near the battery. The site was delineated and a remediation plan was developed. The remediation plan was approved by Jamie Keyes of NMOCD via email on 08/09/2016 and approved by Amber Groves of the SLO via email on 08/18/2016. Remediation was completed in accordance with the approved plan.

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.

	OIL CONSERVATION DIVISION					
Signature: Robert Grubbs	Approved by Environmental Speciali					
Title: Senior Environmental Coordinator	Approval Date: 10/5/2016	Expiration Date: N/A				
E-mail Address: rgrubbs@concho.com	Conditions of Approval: N/A	Attached 🔲				
Date: September 28, 2016 Phone: (432) 683-7443		1RP 3981				

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

Form C-141 Revised August 8, 2011

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

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

				54		9,1111 070	00					
			Rele	ease Notific	atio	n and Co	orrective A	ction				
						OPERA	FOR	i	🗌 Initia	al Report	\boxtimes	Final Repor
Name of Co	mpany: C	OG Operati		Contact: Ro	bert McNeill			<u> </u>				
						Telephone N	No. 432-230-00	77				
						Facility Typ	e: Battery					
Surface Owner: State Mineral Owner:									API No	. 30-025-4	0733	
-				LOCA	OITA	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line		County		
М	2	235	33E	190		South	380	West Lea County, NM				
	-	-	1	Latitude N_32.3	2804°	Longitu	ide <u>W 103.5501</u>	5°			-	
						OF REL						
Type of Rele	ase: Oil					Volume of	Release: 20 bbls	lease: 20 bbls Volume Recovered: 19 bbls				
Source of Re	lease: Clos	ed valve					te and Hour of Occurrence Date and Hour of Discovery 03/2016 @ 7:00 pm 02/03/2016 @ 7:00 pm					
Was Immedi	ate Notice (Yes 🗌] No 🖾 Not Re	equired	If YES, To						
By Whom?						Date and Hour:						
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.						
If a Watercon	urse was Im	pacted, Descr	ibe Fully.'	k								

Describe Cause of Problem and Remedial Action Taken.*

E pilots and inlet valves were being serviced. During the process the supply gas to heater was closed and was never reopened. As the heater lost pressure, fluid eventually went over the top and out the flare. A vacuum truck was dispatched to recover all free-standing fluids.

Describe Area Affected and Cleanup Action Taken.*

This release occurred primarily at the flare within the flare containment and impacted the pasture nearby. The site was delineated and a remediation plan was developed. The remediation plan was approved by Jamie Keyes of NMOCD via email on 08/09/2016 and approved by Amber Groves of the SLO via email on 08/18/2016. Remediation was completed in accordance with the approved plan.

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.

	OIL CONSERVATION DIVISION					
Signature: The formation of the second secon	Approved by Environmental Specialist:					
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:				
E-mail Address: rgrubbs@concho.com	Conditions of Approval:		Attached			
Date: September 28, 2016 Phone: (432) 683-7443						





Groundwater Plot

Concho Sopapilla State #1H Battery





Section Quarters

Concho Sopapilla State #1H Battery



Concho

Sopapilla State #1H Battery



Concho

Sopapilla State #1H Battery



Laboratory Analytical Results Summary Sopapilla State 1H Battery - 11-6-15

		Sample	S1 @ Surface	SP1 @ 1'	S1 @ 2'	S1 @ 3'
Analyte	Method	Date	1/18/16	1/18/16	1/18/16	1/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		7.32	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		57.1	<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		21.7	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		81.9	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		168	<0.300	<0.300	<0.300
GRO	TPH 8015M		4450	<10.0	<10.0	<10.0
DRO	TPH 8015M		9440	<10.0	<10.0	<10.0

		Sample	S2 @ Surface	SP2 @ 1'	S2 @ 2'	S2 @ 3'
Analyte	Method	Date	1/18/16	1/18/16	1/18/16	1/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	< 0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.094	< 0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.183	< 0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.878	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.15	< 0.300	<0.300	<0.300
GRO	TPH 8015M		131	<10.0	<10.0	<10.0
DRO	TPH 8015M		1340	<10.0	<10.0	<10.0

		Sample	S3 @ Surface	SP3 @ 1'	S3 @ 2'	S3 @ 3'
Analyte	Method	Date	1/18/16	1/18/16	1/18/16	1/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	3.17	<0.050	< 0.050
Toluene	BTEX 8021B		11.9	38	<0.050	0.173
Ethylbenzene	BTEX 8021B		10.5	16.1	<0.050	<0.050
Total Xylenes	BTEX 8021B		40.8	59.4	<0.150	<0.150
Total BTEX	BTEX 8021B		63.2	117	<0.300	<0.300
GRO	TPH 8015M		2020	3810	<10.0	<10.0
DRO	TPH 8015M		5210	7760	<10.0	<10.0

Laboratory Analytical Results Summary Sopapilla State 1H Battery

		Sample	S1 @ Surface	SP1 @ 1'
Analyte	Method	Date	2/5/16	2/5/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		464	576
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		353	<10.0

January 25, 2016

DAKOTA NEEL COG OPERATING P. O. BOX 1630 ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 14:00.

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.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN	ne i den und 2000 date i una termular i da Biller (den es attaliar en la conta. Su	

Sample ID: S1 - SURFACE (H600133-01)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.32	2.00	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	57.1	2.00	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	21.7	2.00	01/22/2016	ND	1.70	85.2	2.00	5.40	χ.
Total Xylenes*	81.9	6.00	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	168	12.0	01/22/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4450	50.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	9440	50.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	179 9	% 35-147							
Surrogate: 1-Chlorooctadecane	1779	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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, negardless 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.

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Celey L. Keene -

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1 - 1' (H600133-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	85.1 9	% 35-147							
Surrogate: 1-Chlorooctadecane	84.6	% 28-171							

Cardinal Laboratories

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*=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 exerctlin full with mitter approval of Cardinal Laboratines.

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1 - 2' (H600133-03)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2,00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND			đ		
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS				N.	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	74.7 9	% 35-147							
Surrogate: 1-Chlorooctadecane	75.6 9	6 28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1 - 3' (H600133-04)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	85.2 9	% 35-147					10		
Surrogate: 1-Chlorooctadecane	83.4 9	28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN	Sumple Received by.	5001116115011

Sample ID: S2 - SURFACE (H600133-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	0.094	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	0.183	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	0.878	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	1.15	0.300	01/22/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120 9	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	131	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	1340	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	103 %	6 35-147	2						
Surrogate: 1-Chlorooctadecane	93.19	6 28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 1' (H600133-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	76.9 9	% 35-147	5						
Surrogate: 1-Chlorooctadecane	79.1 9	28-171							

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Analytical Results For:

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 2' (H600133-07)

BTEX 8021B	mg,	′kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	73.6-14	0						
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	79.5 9	% 35-147	0			, Ť=			
Surrogate: 1-Chlorooctadecane	80.0 9	6 28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 3' (H600133-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	81.4 9	% 35-147							
Surrogate: 1-Chlorooctadecane	80.9 9	% 28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S3 - SURFACE (H600133-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS			2 - 2		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	11.9	1.00	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	10.5	1.00	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	40.8	3.00	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	63.2	6.00	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS		2			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2020	50.0	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	5210	50.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	133 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	125 9	6 28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S3 - 1' (H600133-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS	24				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.17	2.00	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	38.0	2.00	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	16.1	2.00	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	59.4	6.00	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	117	12.0	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 73.6-14	0						
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3810	50.0	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	7760	50.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	161 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	157 9	28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S3 - 2' (H600133-11)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2,38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	69.8	% 35-147	E.						ni interneti
Surrogate: 1-Chlorooctadecane	71.8	28-171							

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

Received:	01/20/2016	Sampling Date:	01/18/2016
Reported:	01/25/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S3 - 3' (H600133-12)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	0.173	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	69.5	35-147	,						
Surrogate: 1-Chlorooctadecane	72.1 9	26 28-171							

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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	

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*=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	6 0				
Company Name: COG Operating LLC		BILL TO		ANALYSIS REQUEST	_
Project Manager: Dakota Neel	P.	P.O. #:			
Address: 2208 West Main	Co	Company: COG Operating LLC	ng LLC		
City: Artesia State: NM	Zip 88210 At	Attn: Robert McNeill			
Phone #: (575) 748-6930 Fax #:	Ac	Address: 600 W Illinois	SiO		-
Project #: Project Owner:	ci	City: Midland			
Project Name: Sopapilla St #1H Battery	St	State: TX Zip: 79701			
Project Location:	Pł	Phone #: (432) 221-0388			
Sampler Name: Dakota Neel	Fa	1		4	
1	MATRIX	PRESERV. SAMPLING	ō		
FOR LAB USE ONLY	MATRIX		G		
	RS TER				
Lab I.D. Sample I.D.		/BASE COOL	1		
	# CON GROU	ACID	BTE: TPH Chlo		
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		x 1/18/16	8:00 AM × ×		
S1-2		x 1/18/16	8:00 AM × ×		
2. 		x 1/18/16	× :		
	24 24 29 20 20				
PLEASE NOTE: Labidy and Damages. Cardinal's labidity and client's exclusive remedy for any cliain ansing whether based in contract or tort, shall be limited to the amount paid by the client for the applical analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applical analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applical analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applical analyses.	y claim arising whether based in contract or leemed waived unless made in writing and re without limitation husiness internuctions loss	tort, shall be limited to the amount paid eceived by Cardinal within 30 days after s of use, or loss of profits incurted by ct	amount pad by the client for the (0 days after completion of the applicable rcured by client, its subadianes.		
servee in no event shall valuation or event with the performance of servers hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated affiliates or successors arising out of or related to the performance of servers hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated affiliates or successors arising out of or related to the performance of servers hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated affiliates or successors arising out of or related to the performance of servers hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated affiliates or successors arising out of or related to the performance of servers hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated affiliates or successors arising out of or related to the performance of servers hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated affiliates or successors arising out of or related to the performance of servers hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated affiliates or successors arising out of or related to the performance of servers hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated affiliates or successors are successors arising out of or related to the performance of servers are successors	ardinal, regardless of whether such clasm is t	based upon any of the above stated rea	lt: 🗆 Yes	No	
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Relinquished By: Date:	Received By:		dneel2@concho.com lcarrasco@concho.com atruiillo@concho.com		
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Sampler - UPS - Bus - Other:		Sou			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	66		
Company Name:	COG Operating LLC		BILL TO	ANALYSIS REQUEST
Project Manager:	Dakota Neel	21 22 23	P.O. #:	
Address: 2208	2208 West Main		Company: COG Operating LLC	
City: Artesia	State: NM	Zip 88210	Attn: Robert McNeill	
Phone #:	(575) 748-6930 Fax #:		Address: 600 W Illinois	nois
Project #:	Project Owner:		City: Midland	
Project Name:	Sopapilla St #1H Battery		State: TX Zip: 79701	
Project Location:			Phone #: (432) 221-0388	
Sampler Name:	Dakota Neel		1	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	6
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	BTEX TPH Chloride
snew	S2- Surface S2-1' S2-2' S2-3'		x 1/18/16 x 1/18/16 x 1/18/16 x 1/18/16	8:00 AM × × 8:00 AM × × 8:00 AM × ×
2				8:00 AM × ×
PLEASE NOTE: Liability a analyses. All claims includ service. In no event shall C	d cli ther	ny claim ansing whether based in contra Steemed waved unless made in writing a without limitation, business interruptions worked seems of whether such claim	ent's exclusive remedy for any claim ansing whether based in contract or fort, shall be limited to the amount paid by the client for the cause whatsoever shall be deemed waved unless made in writing and received by Carthan within 30 days after completion of the a squential damages, including writing mitting to susness interruptions, loss of Lase, or loss of profits incurred by client, its subdatanes squential damages, including writing invertieve or whether such claim is based upon any of the above stated reasons or otherwise.	
Relinquished By: Relinquished By:	Date:	Received By: Received By: Received By:	faller	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: dneel2@concho.com lcarrasco@concho.com atruiillo@concho.com
Delivered By Sampler - UPS	- Bus - Other:	Sample Condition Cool Intact Yes La Yes	dition CHECKED BY: Ct (Initials) Yes (No	
s. Please fax wi	Please fax written changes to 575-393-2476	来		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 (57	(575) 393-2326 FAX (575) 393-2476	393-2476	100							REOHEST		
Company Name:	COG Operating LLC)	1111	BILL TO		-	AN	ANALISIS		_	
Project Manager:	Dakota Neel		9	P.O. #:								
Address: 2208 West Main	st Main		0	Company: CO	COG Operating LLC	LC						
City: Artesia	State: NM	: NM Zip	88210		Robert McNeill							
le #:	(575) 748-6930 Fax #:		A	Address:	600 W Illinois							
Project #:	Projec	Project Owner:	C		Midland							
Project Name: Sopa	Sopapilla St #1H Battery		S	State: TX Z	Zip: 79701							
Project Location:			q	Phone #: (432) 221-0388	221-0388							
Sampler Name:	Dakota Neel			Fax #:								
		2. 2.	MATRIX	PRESERV.	SAMPLING							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	BTEX	TPH Chloride					
25=	S3- Surface S3-1' S3-2'			× × ×	1/18/16 8:0 1/18/16 8:0 1/18/16 8:0	8:00 AM × 8:00 AM × 8:00 AM ×	× × ×					
ü	S3-3-			××	1/18/16 8: 1/18/16 8:	8:00 AM × 8:00 AM ×	××				:	
PLEASE NOTE: Liability and Dar analyses. All claims including tho service. In no event shall Cardina	PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be initiad to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or tort, shall be initiad to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or tort, shall be initiad to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or tort, shall be initiad to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or tort, shall be initiad to the amount paid by the client's exclusive remedy for any claim arising whether based in contract by Cardinal within 30 days after completion of the applicable service. In one event shall Cardinal be lability for incidental or consequential damages, including whoul limitation, based interruptions, loss of use or loss of profits incurred by client. Its subsequences are interruptions, loss of use or loss of profits incurred by client. Its subsequences are interruptions, loss of use or loss of profits incurred by client. Its subsequences are interruptions, loss of use or loss of profits incurred by client. Its subsequences are or to not or to any contract to the atype entitient reasons or otherware.	ve remedy for any claim an soever shall be deemed wa nages, including without lim	Is exclusive remedy for any claim arising whether based in contract or tort, shall be imited to the amount paid by the client for the use exclusive retails be deterned waveed unless made in writing and received by Caudinal within 30 days after completion of the a lental damages, including without limitation, business interruptions, loss of use or loss of profits incrumed by client, its subadianess annal damages, including without limitation, business interruptions, loss of use or loss of profits incrumed by client. Its subadianess annal damages, including without limitation, business interruptions, loss of use or loss of profits incrumed by client. Its subadianess annal damages, including without limitation, business interruptions, loss of use or loss of profits incrumed by client.	or tort, shall be limited to d received by Cardinal with loss of use, or loss of pro-	all be imited to the amount paid by the client for the 1 by Cardinal within 30 days after completion of the a e. or loss of profits incurred by client, its subsidiaries e. on on any of the above stated reasons or otherwise	y the client for the ompletion of the applica nt its subsidiaries ons or otherwise	ble					
Relinquished By: Relinquished By:	of or related to the performance of services r Date; Timp: Date: Time:		20/16 Received By: Received By: Received By:	Fall	and the second se	Phone Result: 2 Yes Fax Result: 2 Yes REMARKS: dneel2@concho.com lcarrasco@concho.com atruiillo@concho.com			Add'l Phone #: Add'l Fax #:			
· -	(Circle One) Bus - Other:	4,3°C	Sample Condition Cool Intact Ves Lives	on CHECKED BY	ED BY: als)					T		
s. Please fax written	Please fax written changes to 575-393-2476	6		まれ								



February 23, 2016

DAKOTA NEEL COG OPERATING P. O. BOX 1630

ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/16 10:35.

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.

Cardinal Laboratories is accreditated 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,

Celey D. Keine



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

Received:	02/17/2016	Sampling Date:	02/05/2016
Reported:	02/23/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1-SURFACE (H600368-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2016	ND	2.04	102	2.00	0.658	
Toluene*	<0.050	0.050	02/19/2016	ND	2.01	101	2.00	0.555	
Ethylbenzene*	<0.050	0.050	02/19/2016	ND	1.82	91.1	2.00	0.118	
Total Xylenes*	<0.150	0.150	02/19/2016	ND	5.64	94.0	6.00	0.224	
Total BTEX	<0.300	0.300	02/19/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/19/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2016	ND	198	99.1	200	5.85	
DRO >C10-C28	353	10.0	02/19/2016	ND	216	108	200	12.2	
Surrogate: 1-Chlorooctane	96.8 9	% 35-147	1						
Surrogate: 1-Chlorooctadecane	108 %	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

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

Received:	02/17/2016	Sampling Date:	02/05/2016
Reported:	02/23/2016	Sampling Type:	Soil
Project Name:	SOPAPILLA ST #1 H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1-1' (H600368-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2016	ND	2.04	102	2.00	0.658	
Toluene*	<0.050	0.050	02/19/2016	ND	2.01	101	2.00	0.555	
Ethylbenzene*	<0.050	0.050	02/19/2016	ND	1.82	91.1	2.00	0.118	
Total Xylenes*	<0.150	0.150	02/19/2016	ND	5.64	94.0	6.00	0.224	
Total BTEX	<0.300	0.300	02/19/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/19/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2016	ND	198	99.1	200	5.85	
DRO >C10-C28	<10.0	10.0	02/19/2016	ND	216	108	200	12.2	
Surrogate: 1-Chlorooctane	106 %	6 35-147			*				
Surrogate: 1-Chlorooctadecane	117%	6 28-171							

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*=Accredited Analyte

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I.

Celleg L. Keine -



Notes and Definitions

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 SM4500CI-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 $% \left({{{\mathbf{x}}_{i}}} \right)$

Cardinal Laboratories

*=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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1	101 East Marland, Hobbs, NM 00240 (575) 393-2326 FAX (575) 393-2476	40 76				
Company Name:	COG Operating LLC		BILL TO		ANALYSIS REQUEST	
Project Manager:		P.O	P.O. #:			11
Address: 2208	2208 West Main	Co	Company: COG Operating LLC	g LLC		
City: Artesia	State: NM	Zip 88210 Attn:	tn: Robert McNeill			
Phone #:	(575) 748-6930 Fax #:	Ad	Address: 600 W Illinois	Ŭ,		
Project #:	Project Owner:		City: Midland			
ame:	Sopapilla State 1H Battery	St	State: TX Zip: 79701			
Project Location:		PI	Phone #: (432) 221-0388			
Sampler Name:	Dakota Neel	Fa	1			
Campion manne.		MATRIX	PRESERV. SAMPLING	LING		
FOR LAB USE ONLY		rs Ter				
Lab I.D.	Sample I.D.	DGE	O/BASE:			
HLOOD 368		# CO GRO	ACIE ICE OTH 2/5/16	TIME BTE BTE X Chi		
12-	S1- 1'	×	2/5/16 1	10:00 AM X X X		
					1	
PLEASE NOTE: Liability ar analyses. All claims include service in no event shall C	PLEASE NOTE: Lability and Damages. Cardinal's lability 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 applica analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waiwed unless made in writing and received by Cardinal within 30 days after completion of the applica service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, burness interruptions, loss of use, or loss of profits incurred by client. It is ubidationes in the devent shall Cardinal be liable for incidental or consequential damages, including without limitation, burness interruptions, loss of use, or loss of profits incurred by client.	any claim arising whether based in contract or e deemed waived unless made in writing and re g without limitation, business interruptions, loss	act or tort, shall be imited to the amount paid by the client for the and received by Cardinal within 30 days after completion of the a ma, joss of use, or loss of profits incurred by client. Its subadianies, even a based incom or of the above statied reasons or otherwise.	by the client for the completion of the applicable and rt. ds subadianies. pons or otherwise		
Relinquished By: DAKO	ed By: DAKOTA NEEL DAKOTA NEEL 10.35	Date: 2/17/2016 Received By: Time: 10:35 Brittony Feller	Ferrer	Phone Result: Yes No Fax Result: Yes No REMARKS: dneel2@concho.com	Add'l Phone #: Add'l Fax #:	
Relinquished By:		Received By:		lcarrasco@concho.com		
	Time:		-	atrujillo@concho.com		

t Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 $\#\kappa q$

Delivered By: (Circle One) Samplegrivid ନିନ୍ଦ ନିୟାନ୍ତ - Other:

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Sample Condition Cool Intact Unres Intes

(Initials)

Good afternoon,

The work plan is approved.

Thank you,

Jamie

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Friday, August 05, 2016 5:01 PM
To: Keyes, Jamie, EMNRD; Amber Groves
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Concho - Sopapilla State #1 - Remediation Plan

Jamie and Amber,

I have attached the remediation packet that we used in our discussion of the remediation plan for the Concho Sopapilla State #1 leak site. You will find the details of the remediation plan on the first page of the packet. Both agencies have given their verbal approval of this plan and I am requesting that you reply via e-mail with your approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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From:	Groves, Amber
То:	Keyes, Jamie, EMNRD; Cliff Brunson
Cc:	Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	RE: Concho - Sopapilla State #1 - Remediation Plan
Date:	Thursday, August 18, 2016 3:20:29 PM
Attachments:	image002.png
	image001.png

Good Afternoon,

NMSLO is in concurrence with NMOCD.

Thank you,

Amber Groves

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

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From: Keyes, Jamie, EMNRD [mailto:Jamie.Keyes@state.nm.us]
Sent: Tuesday, August 09, 2016 12:52 PM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: Robert Grubbs <RGrubbs@concho.com>; Ken Swinney <kswinney@bbcinternational.com>;
Jennifer Gilkey <jgilkey@bbcinternational.com>; Groves, Amber <agroves@slo.state.nm.us>; Kathy
Purvis <kathy@bbcinternational.com>
Subject: RE: Concho - Sopapilla State #1 - Remediation Plan

Good afternoon,

The work plan is approved.

Thank you,

Jamie

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Friday, August 05, 2016 5:01 PM
To: Keyes, Jamie, EMNRD; Amber Groves
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
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If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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