Closure Report

Site Description							
Site Name:	Loving 1 State #002						
Company:	COG Operating LLC						
Legal Description:	U/L N, Section 1, T24S, R27E						
County:	Eddy County, NM						
GPS Coordinates:	N 32.24223° W 104.14611°						

Release Data							
Date of Release:	04/12/2016						
Type of Release:	Oil and Produced water						
Source of Release:	Heater treater						
Volume of Release:	10 bbls oil, 5 bbls produced water						
Volume Recovered:	2 bbls oil						

Remediation Specifications									
Remediation Parameters:	Excavate to a depth of 6 in. to 1 ft in the area of SP1. In the area of SP2, excavate to 1 ft, take field screen CL samples to reach to 250 ppm, and place an impermeable (clay or bentonite) liner in the excavation. Excavate to a depth of 6 in. in the area of SP3 & SP4. Excavate to 1 ft in the area of SP5. Backfill with_clean soil.								
Remediation Activities:	09/06/2016 to 0	9/19/2016							
Plan Sent to OCD:	07/11/2016	Email from Cliff Brunson to Mike Bratcher							
OCD Approval of Plan:	Plan: 07/25/2016 Email from Mike Bratcher to Cliff Brunson								
Plan Sent to SLO:	lan Sent to SLO: 07/11/2016 Email from Cliff Brunson to Amber Groves								
BLM Approval of Plan:	08/01/2016	Email from Amber Groves to Cliff Brunson							

Supporting Documentation							
Initial C-141	Signed 04/26/2016						
Final C-141	Signed 09/23/2016						
Site Diagram	April 2016						
Groundwater Plot	<50'						
TOPO Maps	June 2016						
Lab Summary	05/23/2016 and 09/12/2016						
Lab Analysis	05/23/2016 and 09/12/2016						
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. 09/27/2016

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

Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

Form C-141

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.

			Rele	ase Notifi	cation	and Co	orrective A	ction		_		-
						OPERA		⊠ In	itial Report		Fina	al Repor
Name of Co				1 777 70701		Contact: Robert McNeill						
Facility Nar		inois Avenue		d 1X 79701		Telephone No. 432-230-0077 Facility Type: Battery						
		.40 1 51/111		·			be. Dattery					
Surface Ow	ner;			Mineral (Owner:	State		API 1	No. 30-015-	<u> 2449</u>		
	-					OF REI						
Unit Letter N	Section 1	Township 24S	Range 27E	Feet from the 990'	1	South Line	Feet from the 2110	East/West Line West	=	Cour Edd		
	Latitude 32.2423477 Longitude -104.1459274											
				NAT	TURE	OF RELI	EASE					
Type of Relea					CILD	Volume of		Volume	Recovered:			
Oil & Produc							; 5 bbls PW		Dil; 0 bbls P			
Source of Rel Heater Treate						Date and H 4/12/2016	our of Occurrence		d Hour of Di	scovery	<i>'</i> :	
Was Immedia		iven?				If YES, To		14/12/20	16 11:00 am			
			Yes 🔲	No 🛛 Not R	equired	,	.,					
By Whom?						Date and H	our:				·	
Was a Watero	ourse Reac		17 17	3.7		If YES, Vo	lume Impacting th	ne Watercourse,				
			Yes 🛚									
If a Watercou	rse was Imp	oacted, Descri	be Fully.*									
D 7 C	CD 11	1.70										
Describe Cause					vere dier	atched to reco	over fluid and con	duct initial clear				
1100 Teledibe	vas caasea	o j a manare o	tile nearer	ucater. Crows v	vere disp	attited to reco	over mand and con	duct iiitiai cieai	ւ- ս ք.			
T>	A CC + 1	1.01										
Describe Area	Affected a	ind Cleanup A	ction Take	en,*								
This release in	npacted the	battery and th	he pasture	outside the berm	ed area.	Concho will l	have the spill site	sampled to delir	eate any pos	sible co	ntamin	ıation
from the relea	se and we v	vill present a 1	remediatio	n work plan to th	ne NMO	CD for approv	val prior to any sig	gnificant remedia	ation work.			
I hereby certif	y that the in	aformation giv	en above	is true and comp	lete to th	e best of mv l	cnowledge and un	derstand that nu	rsuant to NN	OCD r	ules an	${d}$
regulations all	operators a	are required to	report and	l/or file certain r	elease no	tifications an	d perform correct	ive actions for re	eleases which	may er	ndange	r
public health	or the envir	onment. The	acceptance	of a C-141 repo	ort by the	NMOCD ma	rked as "Final Re	port" does not re	lieve the ope	rator of	liabili	ity
or the environ	ment. In ac	ldition. NMO	dequatery i CD accepta	investigate and re ance of a C-141	emediate report do	es not relieve	on that pose a three the operator of re	at to ground wat esponsibility for	er, surface w compliance v	ater, hu with any	man he	ealth
federal, state,	or local law	s and/or regul	lations.		opon ac	ves not reneve	the operator of it	зроизилиту тог	compliance	vitii aiiy	Ouiçi	
							OIL CONS	ERVATION	V DIVISIO	<u>)N</u>		
G.	Kent	duf										
Signature: Approved by Environmental Specialist:												
Printed Name: Robert Grubbs Jr.												
Title: Senior E	nvironmen	tal Coordinate	or		A	Approval Date	e:	Expiration	Date:			
E-mail Addres	s: rgrubbs@	@concho.com		,		Conditions of Approval:			A 440 ~ 10 + =	A44-1-4 [
Data: A	2016	TV!	420 602 3	7442		1			Attached			
Date: April 26 Attach Additi			432-683-7	/443		····						
Trumii Audill	onar bhot	12 11 14000384	ı y									

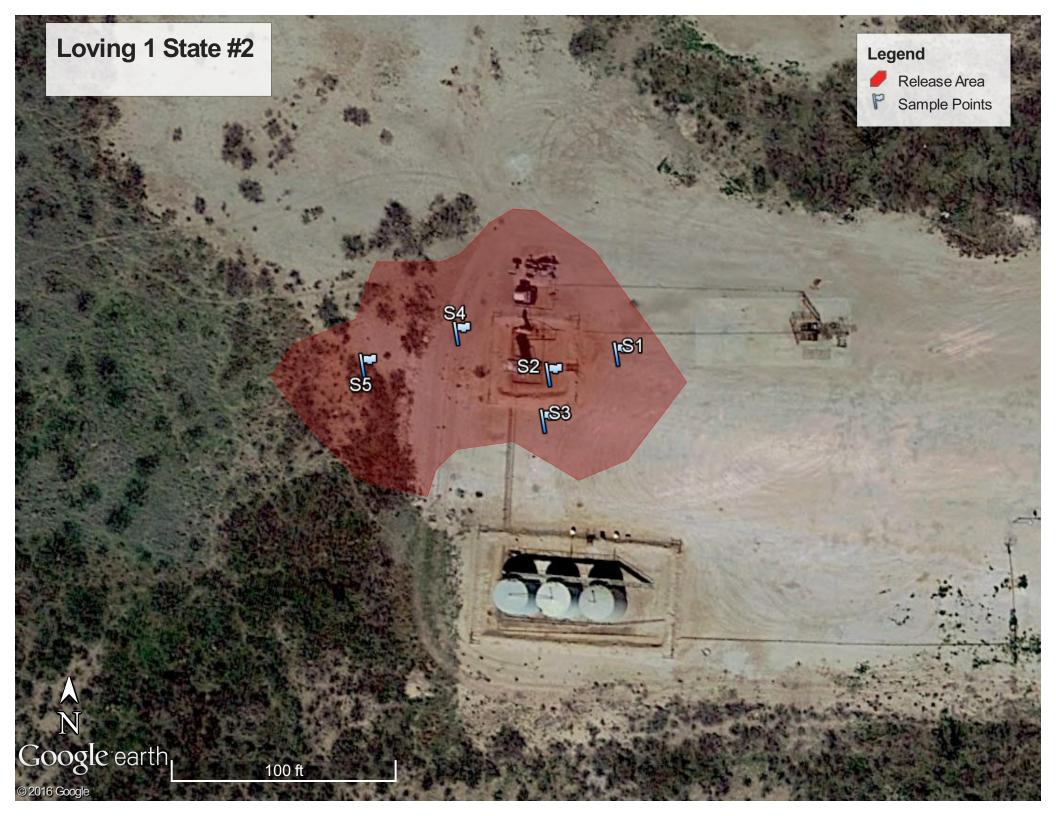
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State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

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											
					· · · · · · · · · · · · · · · · · · ·	OPERA?] Initi	al Report	\boxtimes	Final Repor
Name of Co				nd, TX 79701		Contact: Robert McNeill Telephone No. 432, 230, 0077						-
Facility Nar			c, willia	nu, 17 /9/01		Telephone No. 432-230-0077 Facility Type: Battery						
Surface Ow				1 3 4 (1 /					4 Y4 Y 1 1	20.016.6		***************************************
Surface Ow	Surface Owner: State Mineral Own					·····			APINO	. 30-015-2	449	
Unit Letter		×44 3	T-2			N OF REI				17/		······································
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/We	est Line	County		
N	1	24S	27E	990		South	2110	W	est	Eddy Cour	nty, Ni	M
			i	Latitude <u>N 32.8</u>	2109°	Longitu	de <u>W 104.0764</u>	1 19				
		***************************************		<u>NAT</u>	'URE	OF RELI		F50378044-4-4884444-0-17-444-1			,,	
Type of Rele	ise: Oil and	i produced w	Her			Volume of 5 bbls prod	Release: 10 bbls			Recovered: 1 duced water		oil,
Source of Re	ease: Heat	er Treater		***************************************	***************	Date and H	our of Occurrenc	e l	Date and	Hour of Disc	covery	,
Was Immedia	te Notice (liven?	······································		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	04/12/2016 If YES, To	@ 11:00 am	(04/12/201	6@11:00 a	m	
			Yes [No 🛭 Not Re	equired	11 1 1 1 1 1 1 1 1 1 1 1	** \$10.151;					
By Whom?		7				Date and H		TOSENI (VOIMAL O APPAIL (O			**************************************	
Was a Waters	ourse Reac	hed?	Yes 🔯	l No		If YES, Vo	lume Impacting t	he Watero	course			
If a Watercon	☐ Yes ☑ No If a Watercourse was Impacted, Describe Fully.*											
***************************************	r cam secreta presi	LEGENTANIA EN SENTINE	octuny.									
		Wohwario - 19-00 MANGA			***************************************							
Describe Cau	se of Proble	am and Remed	lial Action	ı Taken.*								
This release v	as caused b	y a failure of	the heate	treater. Crews w	vere disp	atched to reco	over fluid and cor	ıduct initi	al clean-c	ıp.		
Describe Area	ı Affected a	nd Cleanup A	ction Tak	cn.*		**************************************	The state of the s					
		•				ore 1.	X XY	**				
plan was appr	mpacico uie oved by Mi	e oauery and t ke Bratcher o	ne pasture f NMOC!	outside the berm I via email on 07	ed area/25/2016	The site was and approve	i delineated and a d by Amber Grov	remediat es of the !	ion plan v SLO via a	was created. email on 084	The ro 01/201	emediation 6.
Remediation	was comple	ted in accorda	ince with	the approved plan	١.					VIII 011 00	J. 2. J.	
I hereby certi	ly that the in	oformation gi	ven above	is true and comp	lete to th	e best of my l	knowledge and u	nderstand	that nurs	uant to NMC)('I) n	ilee and
regulations at	operators a	are required to	report an	d/or file certain re	elease no	ifications an	d perform correct	tive action	is for rele	ases which i	may en	ulanger
public nealth should their o	or the envir perations b	onment. The ave failed to a	acceptanc decuately	e of a C-141 repo investigate and re	nt by the emediate	: NMOCD ma	irked as "Final Re on that note a thre	port" doe	s not reli-	eve the opera	ator of	'liability
or the environ	ment. In ac	Idition, NMO	CD accep	tance of a C-141	report do	es not relieve	the operator of r	esponsibi	lity for ec	mpliance was	ict, nui ith any	other
federal, state,	or local law	s and/or regu	lations.				OII CONIC	ED3/A	TIAN	DB/ICIA	n t	
.	OIL CONSERVATION DIVISION											
Signature:												
Printed Name: Robert Grubbs Approved by Environmental Specialist:							· · · · · · · · · · · · · · · · · · ·					
Title: Senior	Environme	ntal Coordina	or			Approval Date: Expirat			piration I	on Date:		
E-mail Addre	ss: rgrubbs	@concho.con	1			Conditions of Approval:				Attached	П	
Date: Septem				e: (432) 683-744.	3					A SACACHIAN	L	
Attach Addit	ional Shee	ts If Necessa	liv									



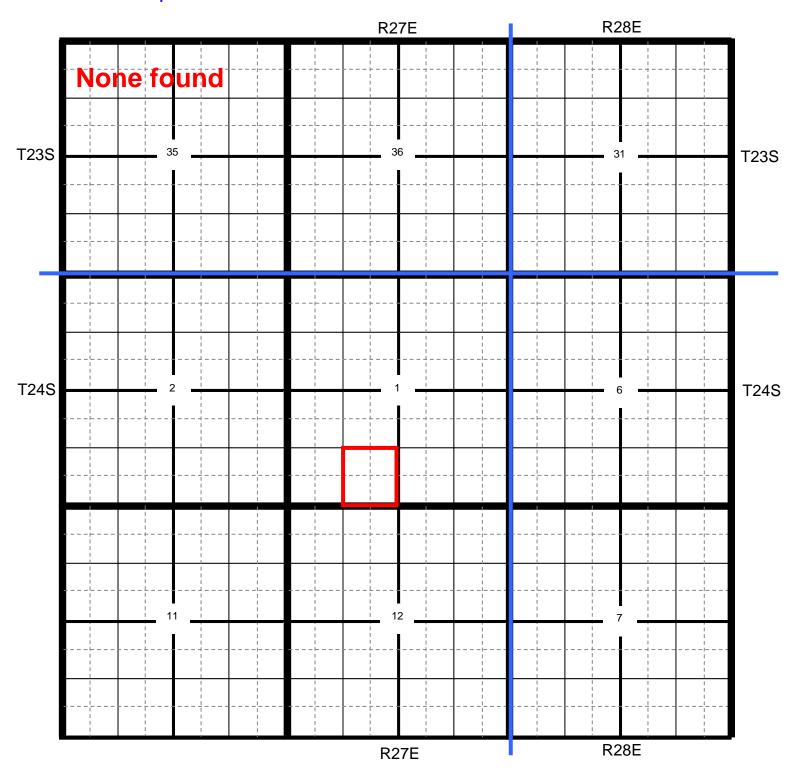


Groundwater Plot

Concho Loving 1 State #2

CountyUnit LetterSectionTownshipRangeEddyN124S27E

Trend Map <50'



Concho Loving 1 State #002

CountyUnit LetterSectionTownshipRangeEddyN124S27E

Trend Map <50'

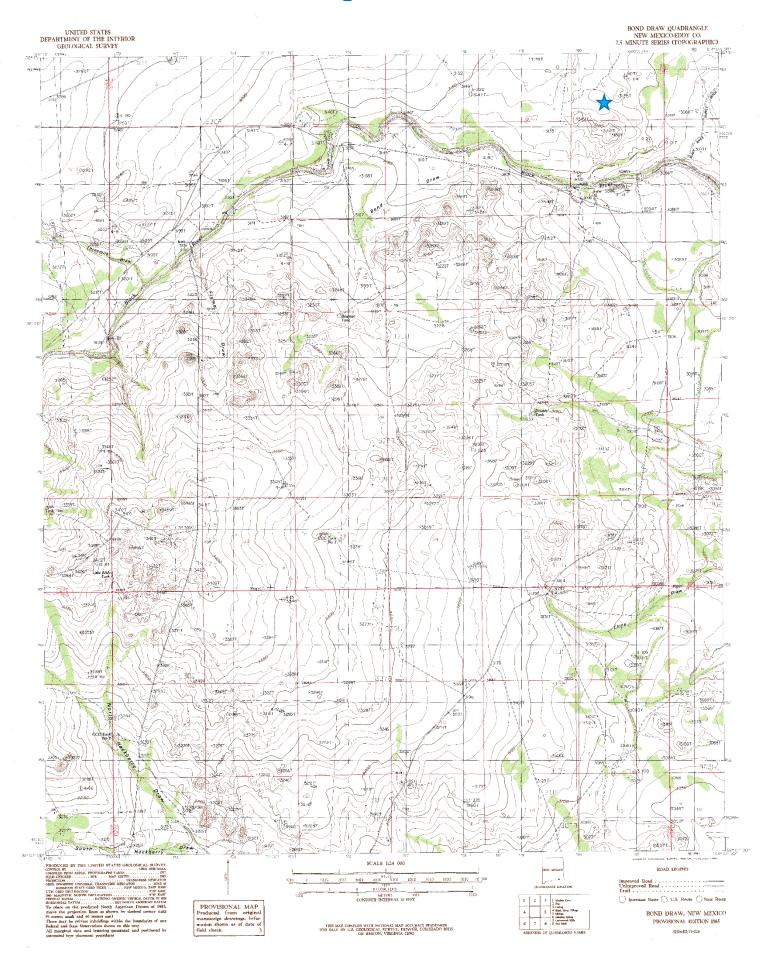
1

NW/NW	NE/NW	NW/NE	NE/NE
None found			
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW∤NE	SE∕NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

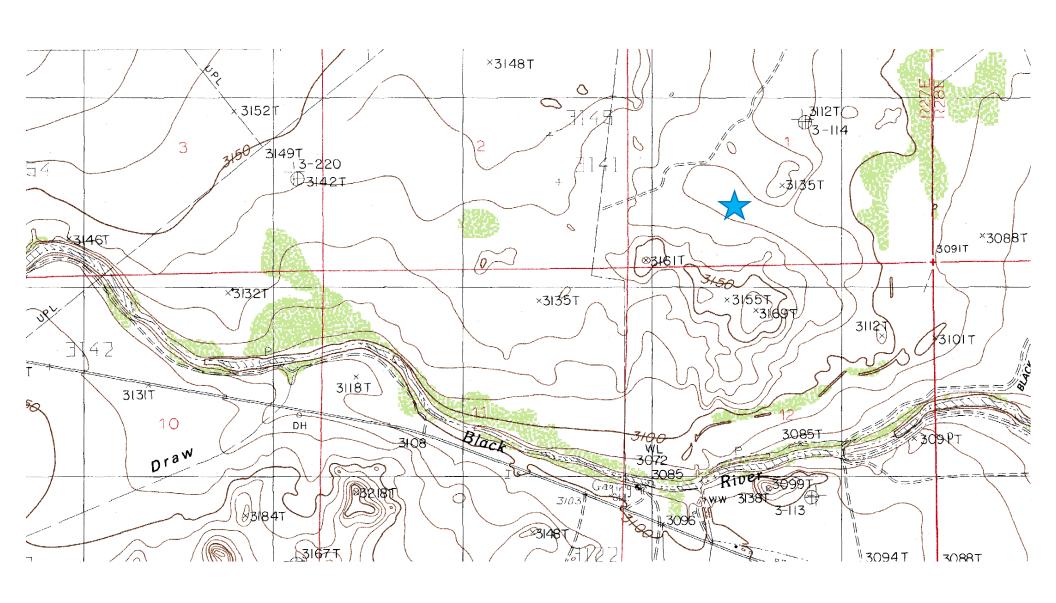
3

Concho

Loving 1 State #2



Concho Loving 1 State #2



Laboratory Analytical Results Summary Loving 1 State #2

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 6'	SP1 @ 8'	SP1 @ 10'	SP1 @ 12'
Analyte	Method	Date	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16
			mg/Kg	mg/Kg						
Benzene	BTEX 8021B		<0.050	<0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		576	<16.0	16	32	32	144	160	368
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		21.9	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		304	880	1280	1060	912
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15.2	<10.0	<10.0	<10.0	<10.0

		Sample	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 6'
Analyte	Method	Date	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	< 0.050	<0.050	< 0.050	< 0.050	n/a
Toluene	BTEX 8021B		< 0.050	<0.050	< 0.050	< 0.050	< 0.050	n/a
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	n/a
Total Xylenes	BTEX 8021B		0.202	<0.150	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	n/a
Chloride	SM4500CI-B		416	<16.0	<16.0	<16.0	32	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		183	<10.0	<10.0	<10.0	<10.0	n/a

		Sample	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	5/23/16	5/23/16	5/23/16	5/23/16	5/23/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	<0.050	<0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	<0.050	<0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		112	480	112	240	192
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15.5	<10.0	<10.0	<10.0	<10.0

		Sample	SP5 @ Surface	SP5 @ 1'
Analyte	Method	Date	5/23/16	5/23/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	< 0.050
Toluene	BTEX 8021B		25.8	< 0.050
Ethylbenzene	BTEX 8021B		16	0.062
Total Xylenes	BTEX 8021B		33	0.638
Total BTEX	BTEX 8021B		175	0.701
Chloride	SM4500CI-B		1150	80
GRO	TPH 8015M		3670	17.5
DRO	TPH 8015M		30000	169



June 02, 2016

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: LOVING 1 STATE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/25/16 14:05.

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/ga/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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

 Received:
 05/25/2016
 Sampling Date:
 05/23/2016

 Reported:
 06/02/2016
 Sampling Type:
 Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S1 - 1' (H601149-01)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	< 0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/01/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	21.9	10.0	05/27/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	84.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S1 - 2' (H601149-02)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/01/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/27/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	78.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	103 9	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S1 - 3' (H601149-03)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/01/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/27/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	92.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	122 9	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S1 - 4' (H601149-04)

BTEX 8021B	mg/l	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9 %	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	32.0	16.0	06/01/2016	ND	400	100	400	3.92	
TPH 8015M	mg/l	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/27/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	92.0 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	120 %	6 28-171							

Sample ID: S1 - 6' (H601149-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/01/2016	ND	400	100	400	3.92	

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil
Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S1 - 8' (H601149-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 144 06/01/2016 ND 400 100 400 3.92 16.0

Sample ID: S1 - 10' (H601149-07)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank % Recovery Qualifier Chloride 160 16.0 06/01/2016 400 400 3.92 ND 100

Sample ID: S1 - 12' (H601149-08)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 368 06/01/2016 ND 400 400 3.92 16.0 100

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Celeg D. Freene



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S2 - SURFACE (H601149-09)

BTEX 8021B	mg/	mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	< 0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/01/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	15.2	10.0	05/27/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	85.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	116 %	6 28-171							

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Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: Celey D. Keene NONE GIVEN

Project Location: **NOT GIVEN**

Sample ID: S2 - 1' (H601149-10)

BTEX 8021B	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	880	16.0	06/01/2016	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	86.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	106	% 28-171	,						

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S2 - 2' (H601149-11)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	73.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	103 9	% 28-171							

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Celey D. Keine

Cardinal Laboratories



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S2 - 3' (H601149-12)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	76.3 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.4	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S2 - 4' (H601149-13)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	80.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	107 9	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: S3 - SURFACE (H601149-14)

BTEX 8021B	mg/	'kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	0.202	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 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	416	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	183	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	80.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	108	% 28-171							

Surrogate: 1-Chlorooctadecane 108 % 28-171

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S3 - 1' (H601149-15)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	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	<16.0	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	73.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	103 9	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S3 - 2' (H601149-16)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	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	<16.0	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	79.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	113 9	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S3 - 3' (H601149-17)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	< 0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	< 0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	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	<16.0	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	82.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108 %	6 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S3 - 4' (H601149-18)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	< 0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	< 0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	< 0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	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	32.0	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	90.7 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	119 %	6 28-171							

Sample ID: S3 - 6' (H601149-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/01/2016	ND	416	104	400	0.00	

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S4 - SURFACE (H601149-20)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	112	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	15.5	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	84.7	% 35-147	,						
	110.6	20.171							

Surrogate: 1-Chlorooctadecane 110 % 28-171

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S4 - 1' (H601149-21)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2016	ND	1.81	90.5	2.00	2.15	
Toluene*	<0.050	0.050	05/31/2016	ND	1.87	93.7	2.00	1.33	
Ethylbenzene*	<0.050	0.050	05/31/2016	ND	1.73	86.5	2.00	1.12	
Total Xylenes*	<0.150	0.150	05/31/2016	ND	5.42	90.4	6.00	0.639	
Total BTEX	<0.300	0.300	05/31/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	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	480	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	84.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	113 9	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S4 - 2' (H601149-22)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	<0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	<0.300	0.300	06/01/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	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	112	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	77.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	103 9	% 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S4 - 3' (H601149-23)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	<0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	<0.300	0.300	06/01/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	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	240	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	82.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	111 9	6 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: S4 - 4' (H601149-24)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	< 0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	< 0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	<0.300	0.300	06/01/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 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	192	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	<10.0	10.0	05/28/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	76.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 9	6 28-171							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: S5 - SURFACE (H601149-25)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	25.8	2.00	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	16.0	2.00	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	133	6.00	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	175	12.0	06/01/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	1150	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3670	100	05/31/2016	ND	184	92.0	200	4.56	
DRO >C10-C28	30000	100	05/31/2016	ND	196	97.9	200	4.36	
Surrogate: 1-Chlorooctane	240	% 35-147	7						
G 1 . Cl. 1	7.47	0/ 20 17	,						

747 % 28-171 Surrogate: 1-Chlorooctadecane

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.



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 05/25/2016 Sampling Date: 05/23/2016

Reported: 06/02/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: S5 - 1' (H601149-26)

BTEX 8021B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	0.062	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	0.638	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	0.701	0.300	06/01/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	80.0	16.0	06/01/2016	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17.5	10.0	05/31/2016	ND	191	95.7	200	1.97	
DRO >C10-C28	169	10.0	05/31/2016	ND	210	105	200	2.11	
Surrogate: 1-Chlorooctane	66.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	82.5	% 28-171	,						

28-171 Surrogate: 1-Chlorooctadecane 82.5 %

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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

Cardinal Laboratories *=Accredited Analyte

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

Company Name:	COG Operating LLC			-	-	-	-	-					2										1	1	1	1	1	1			1	ı	1	J
Project Manager:	Lupe Carrasco								9	P.O. #:	#	- 50	8			-	1	1	7	ANALYSIS	75		조	REQUEST	10	<u>ان</u>	1-	4	1				1	\perp
Address: 2208	2208 West Main								2	Company:	pa	7	.	COG Operating LLC	ating I I C																			
City: Artesia	State: NM		Zip		88	88210	0		Ą	Attn:				Robert McNeill	Neill 5																			
Phone #:	(575) 748-6940 Fax #:								A	Address:	es	S:		600 W Illinois	linois																			
Project #:	Project Owner:	ñ							City:	?				Midland				-						_										
Project Name: Lo	Loving 1 State #2								St	State: TX		×		Zip: 79701	7																			-
Project Location:									무	on I	e	**	143	Phone #: (432) 221-0388																				
Sampler Name:	Lupe Carrasco								Fax #:	×			1																					
FOR LAB USE ONLY		·.	$\overline{}$	- 1	3	MATRIX	≅			무	PRESERV	Ϋ́	?	SAMPLING	NG																			
Lab I.D.	Sample I.D.		# CONTAINERS	GROUNDWATER WASTEWATER	SOIL		OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL		OTHER:	DATE	TIME	BTEX	TPH	Chloride																
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8 8	\$1-12'	×												5/23/16				×																
analyses. All claims including the service. In no event shall Cardina affiliates or successors arising out	analyses. All claims including those for negligence and any other cause whatshoever shall be deemed waived unless made in contract or fort, shall be limited to the amount paid by the client for the service. In no event shall cardinal be liable for incidental or consequental damages, including without limitation, business intergétions, loss of use, or loss of profits incurred by client, its substitaties, made a strain of the services of services 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.	y claim an eemed wa without lim rdinal, reg	sing wr ived ur itation, ardless	nether nless n busin s of wh	hade i	n writ	ing a tions	nd re not re loss n is b	ceive of us	hall I d by se, or upor	Card Card loss	nited final of p	with with orofit he al	n contract or tort, shall be limited to the amount paid by writing and received by Cardinal within 30 days after co multions, loss of use, or loss of profits incurred by clien or claim is based upon any of the above stated reason	by the client for the approximation of the approximation of the approximation of the province on the control of	pplicable						- 1				1	- 1	ŀ		- 1		L		L
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

- Coo operaning the			BILL ;	5			ANALYSIS REQUEST	CT
Project Manager: Lupe Carrasco			P.O. #:					
Address: 2208 West Main			Company: COG	COG Operating LLC				
City: Artesia	State: NM Zip	88210		Robert McNeill				
Phone #: (575) 748-6940	Fax #:		Address: 600	600 W Illinois				
Project #:	Project Owner:			Midland				
Project Name: Loving 1 State #2			: TX Zip	79701				
Project Location:			(43)	0388				
Sampler Name: Lupe Carrasco				0000	_		_	
Sampler Name: Lupe Carrasco			Fax #:		_	_	_	
FOR LAB USE ONLY	·.	MATRIX	PRESERV. SAI	SAMPLING				
Lab I.D. Sample I.D.	MAB OR (C)OMP	DGE	ER: D/BASE: COOL ER:	,			ide	
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- 10 S2-1	×		5/23/16	16	×	×	×	
- (1 82-2	×		5/23/16	16	×	×	×	
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-13 S2-4'	×		5/23/16	16	× :	× :	× ;	
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EASE 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 noted by the client for the	exclusive remedy for any claim arising w	hether based in contract or to	t, shall be limited to the amount	paid by the client for the	\vdash			
inal be liable for incidental or conseque out of or related to the performance of	ntal damages, including without limitation, busines ervices hereunder by Cardinal, regardless of whe	, business interruptions, loss o ss of whether such claim is bas	interruptions, loss of use, or loss of profits incurred by cliver such claim is based upon any of the above stated rea-	by client, its subsidiaries, I reasons or otherwise.	cable			
elinquished By:	Time 1.0 5 Received By	a By Con		Phone Result: [Fax Result: [Carrena Remarks: gcar atrujillo@concho.]	gcar ncho	☐ Yes☐ Yes☐ Yes☐.com	Cho.com Cyes □ No Add'l Phone #: □ Yes □ No Add'l Fax #: gcarrasco@concho.com	
	Time:							
Delivered By: (Circle One)	3.08	Sample Condition						
sampler - UPS - Bus - Other:		Yes Yes	(Initials)	2				
	MICHO DIT	☐ No ☐ No	CM H	/				



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COG Operating LLC		8/1/18	•)					
Project Manager:	Lupe Carrasco		P.O. #:		4	\dashv	1	חומים אבעטבטו	
Address: 2208 V	2208 West Main		ny:	COG Operating LLC					
City: Artesia	State: NM	Zip 88210		McNeill					
Phone #:	(575) 748-6940 Fax #:		Address: 600 V	600 W Illinois					
Project #:	Project Owner:	er:		and					
Project Name: Lo	Loving 1 State #2		: TX Zip	701			-		
Project Location:			(432	888					
Sampler Name:	Lupe Carrasco		Fax #:						
FOR LAB USE ONLY		MATRIX	SERV.	SAMPLING					
	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX		TPH	Chloride		
	S3-SURFACE	×	5/23/16		×	×	×		1
15 83-1	4	×	5/23/16	65	×	×	×		
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1 1 83-3	داي	×	5/23/16	63	×	×	×		
0	4	×	5/23/16	0,		×	×		
-17 83-6	6	×	5/23/16				× ;		
analyses. All claims including thos service. In no event shall Cardinal affiliates or successors arising out of the control of	The CHAPTER WHE. Leading and clarify searchisty for early directly for any claim a rising 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 applications of the spicial 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 gloch claim is based upon any of the above stated reasons or otherwise.	ny claim arising whether based in contract or leemed waived unless made in writing and ra without limitation, business interruptions, loss ardinal, regardless of whether gluch claim is t	tort, shall be limited to the amount pa sceived by Cardinal within 30 days aft s of use, or loss of profits incurred by based upon any of the above stated in	id by the client for the er completion of the appli client, its subsidiaries, easons or otherwise.	cable				
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	Time:	0							
Delivered By: (Circle One) Sampler - UPS - Bus - Other)	Sample Condition Cool Intact Cyes Wyes	On CHECKED BY:						
FORM-006 R 2.0	and some had so	No ly res	St HS	2					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		017719				ANALYSIS REQUEST
Project Manager: Lupe Carrasco		P.O. #:		\dashv		
Address: 2208 West Main		Company: COG Operating LLC	rating LLC			
City: Artesia State: NM	Zip 88210		cNeill			
Phone #: (575) 748-6940 Fax #:		Address: 600 W Illinois	Illinois	_		
Project #: Project Owner:			a.			
Project Name: Loving 1 State #2		: TX Zip	9			
Project Location:		(43)	ω .			
Sampler Name: Lupe Carrasco		Fax #:		_		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	ING			
	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	TPH	Chloride	
S4-SURFACE		ن ن		\dashv	\dashv	
- 21 \$4-1'	×	5/23/16	×	-	+	
_ & S4-2'	×	5/23/16	×		-	
23 84-3	×	5/23/16	×			
24 S4-4'	×	5/23/16	×			
FASS NOTE: Listage Design of the state of th						
nalyses. All claims including those for negligence and any other cause whatsoever shall be dened waved unless made in contract or tort, shall be limited to the amount paid by the client for the envice. In no event shall Cardinal he liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, filialises 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.	y claim arising whether based in contract or to eemed waived unless made in writing and rec without limitation, business interruptions, loss ardinal, regardless of whether such claim is be	ort, shall be limited to the amount paid is beived by Cardinal within 30 days after or of use, or loss of profits incurred by clie ased upon any of the above stated reas	by the client for the completion of the applicatent, its subsidiaries, ons or otherwise.	ė		
Relinquished By: Date: Date: Date:	Received By:		sult:	gcarra	☐ Yes ☐ No Add'I ☐ Yes ☐ No Add'I arrasco@concho.com	Add'l Phone #: Add'l Fax #: 0.COM
Time:	0					r
)		오				
Sampler - UPS - Bus - Other:	Yes Yes	の世代				



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COG Operating LLC			•)				
Project Manager:	: Lupe Carrasco		P.O. #:		+	1	ANALYSIS REQUEST	
Address: 2208	2208 West Main		ny:	COG Operating LLC		_		
City: Artesia	State: NM	Zip 88210		Robert McNeill				
Phone #:	(575) 748-6940 Fax #:		ess:	600 W Illinois				
Project #:	Project Owner:	ner:	City: Midland	and	_			
Project Name: L	Loving 1 State #2		:: TX Zip	9701	_	_		
Project Location:			(43)	388				
Sampler Name:	Lupe Carrasco		Fax #:		_			
FOR LAB USE ONLY		MATRIX	SERV	SAMPI ING				
Lab I.D.	Sample I.D.	AB OR (C)OMP. NTAINERS UNDWATER TEWATER DGE	/BASE: COOL ER:			de		
Philogh		# COI		TIME BTEX	TPH	Chloric		
	S5-SURFACE	×	5/23/16		×	×		+
- 20 s	S5-1'	×	5/23/16			×		
PLEASE NOTE: Liability and D	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, 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 20 days. For constitution of the	any claim arising whether based in contract o	r tort, shall be limited to the amount pe	aid by the client for the				
affiliates or successors arising of Relinguished By:	affiliates or successors arising out of or related to the performance of services hereunder by Calding without limitation, business instructions, 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 Cardina, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinquished By:	ng without limitation, business interruptions, locardinal, regardless of whether such claim is	ss of use, or loss of profits incurred by based upon any of the above stated r	client, its subsidiaries, easons or otherwise.				
1	Time:	S Vacchaen DA		Phone Result: Fax Result: REMARKS:	☐ Yes	☐ Yes ☐ No Add'I	Add'l Phone #: Add'l Fax #:	
Relinquished By:		Received By:	•	ğ	cho.cor	la (
Delivered By: (Circle One)	Circle One)		3					
Sampler - UPS - Bus - Other: FORM-006 R 2.0	Bus - Other: Carula 3/2	3. / of Thes Tyes	Control of the state of the sta	4				



September 14, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOVING 1 STATE #2

Enclosed are the results of analyses for samples received by the laboratory on 09/13/16 10:25.

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/ga/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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/13/2016 Sampling Date: 09/12/2016

Reported: 09/14/2016 Sampling Type: Soil

Project Name: LOVING 1 STATE #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LOVING, NM

Sample ID: SP 2 @ 1' (H602042-01)

Chioride, SM4500CI-B	mg,	/kg	Analyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2016	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. 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 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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC Inte 1RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

	GRAB OR (C)OM CONTAINERS GROUNDWATER	FOR LAB USE ONLY POR LAB USE ONLY D	Project Location: Loving NM		Phone #: 575-397-6388	Address: P.O. Box 805	Project Manager: Cliff Brunson	. DDC IIIIeiriational, Inc.
LEASE NOTE: LIABITY and Continues Constitute Continues C	WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL GTHER: DATE TIME	MATRIX PRESERV SAMPLING	State: Zip: Phone #:		Address:	Company:	P.O. #:	8/11/70
				- A.			ANALYSIS REQUEST	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 Sample Condition
Cool Intact
Pres Pres
No No

#10

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Received By:

red by client, its subsidiaries

Phone Result: Fax Result: REMARKS:

□ Yes

ON O

Add'l Phone #: Add'l Fax #:

Page 4 of 4

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Sent: Monday, July 25, 2016 8:57 AM

To: Cliff Brunson

Cc: Robert Grubbs; Patterson, Heather, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis;

'agroves@slo.state.nm.us'

Subject: RE: COG Loving 1 State #2 - Remediation Plan

RE: COG * Loving 1 St 2 * 2RP-3666 * DOR: 4/12/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Target goal for chloride delineation is 250 mg/kg, and as discussed, field screens are acceptable for the SP-2 delineation. It is OCD's understanding that the proposed barrier will be clay/bentonite. Please advise if liner medium is revised, and, once remedial activities have been scheduled.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108

C: 575-626-0857 F: 575-748-9720

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, July 11, 2016 5:17 PM

To: Bratcher, Mike, EMNRD

Cc: Robert Grubbs; Patterson, Heather, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: COG Loving 1 State #2 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the COG Loving 1 State #2 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
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than the named recipient(3) is strictly promoted.

From: Groves, Amber

To: <u>Bratcher, Mike, EMNRD; Cliff Brunson</u>

Cc: Robert Grubbs; Patterson, Heather, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: RE: COG Loving 1 State #2 - Remediation Plan

Date: Monday, August 1, 2016 7:56:10 AM

Attachments: image001.png image003.png

Cliff.

NMSLO is in agreement 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: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]

Sent: Monday, July 25, 2016 8:57 AM

To: Cliff Brunson <cbrunson@bbcinternational.com>

Cc: Robert Grubbs < RGrubbs@concho.com>; Patterson, Heather, EMNRD

<Heather.Patterson@state.nm.us>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey
<jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>; Groves, Amber
<agreening</pre><agreening</pre>cagroves@slo.state.nm.us>

Subject: RE: COG Loving 1 State #2 - Remediation Plan

RE: COG * Loving 1 St 2 * **2RP-3666** * DOR: 4/12/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Target goal for chloride

delineation is 250 mg/kg, and as discussed, field screens are acceptable for the SP-2 delineation. It is OCD's understanding that the proposed barrier will be clay/bentonite. Please advise if liner medium is revised, and, once remedial activities have been scheduled.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108

C: 575-626-0857 F: 575-748-9720

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, July 11, 2016 5:17 PM

To: Bratcher, Mike, EMNRD

Cc: Robert Grubbs; Patterson, Heather, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: COG Loving 1 State #2 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the COG Loving 1 State #2 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

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