# **Closure Report**

RECEIVED

APR 08 2013

	Site Description	MMOOD ARTES'A
Site Name:	Government D #4	
Company:	Chevron USA, Inc.	
Legal Description:	U/L G, Section 1, T21S, R27E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.51812° W 104.14147°	

Release Data						
Date of Release:	12/03/2012					
Type of Release:	Produced Water					
Source of Release:	Hole in the discharge					
Volume of Release:	90 bbls					
Volume Recovered:	70 bbls					

Remedication Specifications							
Remediation Parameters:	Excavated impacted soils in the areas of SP1, SP2, and SP3 to a depth of 2 feet. In the area around SP4, the excavation was to 5' in depth then a compacted clay liner was installed. In the areas depicted on the drawing by SP5, SP6, SP7, SP8, and SP9, the soil was excavated to a depth of 1.5'. Confirmation sidewall samples were taken from the 5 foot excavation around SP4 and analyzed for TPH, BTEX, and Chloride. The site was backfilled with clean soil.						
Remediation Activities:	Completed						
Plan Sent to OCD:	01/16/2013	Email from Cliff Brunson to Mike Bratcher					
OCD Approval of Plan:	01/16/2013	Email from Mike Bratcher to Cliff Brunson					
Plan Sent to BLM:	Not required Not required						
BLM Approval of Plan:	Not required	Not required					

Supporting Documentation					
Site Diagram	December, 2012				
Groundwater Plot	25'-50'				
TOPO Maps	December, 2012				
Lab Summary	12/06/2012 thru 12/10/2012, 02/13/2013				
Lab Analysis	12/06/2012 thru 12/10/2012, 02/13/2013				
Initial C-141	Signed and sent on 12/11/2012				
Final C-141	Signed and sent on 03/07/13				
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.

04/04/2013

							RE	ECEIV	VED		
District 1 1625 N. French Dr., Hobbs, District II	NM 88240		State Energy Minera		New Mex nd Natura		rces	APR 08	2013		Form C-1 Revised October 10, 20
1301 W. Grand Avenue, Art	esia, NM 88210	I							TEO	1	
	istrict III DO Rio Brazos Road, Aztec, NM 87410 Oil Conser					vision [	I MIARC		1152	Distric	Copies to appropri
District IV					St. Franc						with Rule 116 on ba side of fo
1220 S. St. Francis Dr., Sant	a re, inivi 87503	, 	Santa	ιFe,	, NM 875	<u> </u>	n 14		×		
		Rele	ease Notificat	ion	and Co	orrect	ive A	ction			
					<b>OPERA</b>			$\square$	Initia	l Report	Final Re
	Chevron US					Bradley H		1462			
	90, Hobbs, N				Telephone N Facility Typ		75) 391 Il locati			-	
Facility Name Gov	ernment D #	4		<u> </u>	acting Typ	we.	II locali	011			
Surface Owner			Mineral Own	er					ease N	(o. API#:	30-015-24921
			LOCATI								
Unit Letter Section	Township	Range	Feet from the No	orth/S	South Line	Feet fro	om the	East/West	Line	County	
<u>G 1</u>	218	27E	1554	N	Jorth	19	80	East		Eddy Co	ounty, NM
		1	Latitude <u>N 32.5181</u>	1 <u>2°</u>	Longitu	de <u>W 10</u>	)4. <u>14</u> 14	<b>7</b> °			
			NATUR	RE (	OF REL						
Type of Release Prod	uced Water				Volume of	Release	90 bbl	ls Vo	olume R	ecovered	70 bbls
Source of Release Ho	le in the disch	arge			Date and H			æ Da	ite and H	Hour of D	iscovery
Was Immediate Notice (	Given?		<u></u>		12/03/2012 @ 2:00 pm						
was manoulate routee (		Yes 🗌	🛛 No 🔲 Not Requir	red							
By Whom? Cliff Bruns	on for Bradley	Blevins			Date and Hour 12/03/2012 @ 4:17 pm						
Was a Watercourse Read		Yes 🗵	No		If YES, Volume Impacting the Watercourse.						
If a Watercourse was Im	pacted, Descr	ibe Fully.	k			<b></b>					
Describe Cause of Probl	am and Pama	dial Actio	n Token *								
A hole in the discharge was repaired.				the g	ground. 70	bbls of pr	oduced y	water were i	recovere	ed via vac	uum truck. The hol
Describe Area Affected											
A hole in the discharge Further remediation wil								water were 1	recovere	ed via vac	uum truck.
I hereby certify that the	information gi	ven above	is true and complete	to the	e best of my	knowled	ge and u	nderstand th	at purs	uant to N	MOCD rules and
regulations all operators											
public health or the envir should their operations b											
or the environment. In a											
federal, state, or local lay				11 400	03 1101 101107	e ale ope	<b>u</b> ior 01 /	- sponsionit	.,	mpnanoe	
2	70	_				OIL	CON	SERVAT	ION	DIVISI	ON
Signature: Kradle	r Kle	is_									
Printed Name: Bradley	y Blevins			A	.pproved by	District S	Superviso	or:			
Title: HES Specialist				A	.pproval Dat	e:		Expi	iration I	Date:	
E-mail Address: Bradl	ley.blevins@c	hevron.co	m		onditions of		1:				
Date: 12/11/12		Pho	ne: (575) 391-1462							Attache	∾ [_]
Sur. 10/1/10		1011	10. (373) 371-1402	1						L	

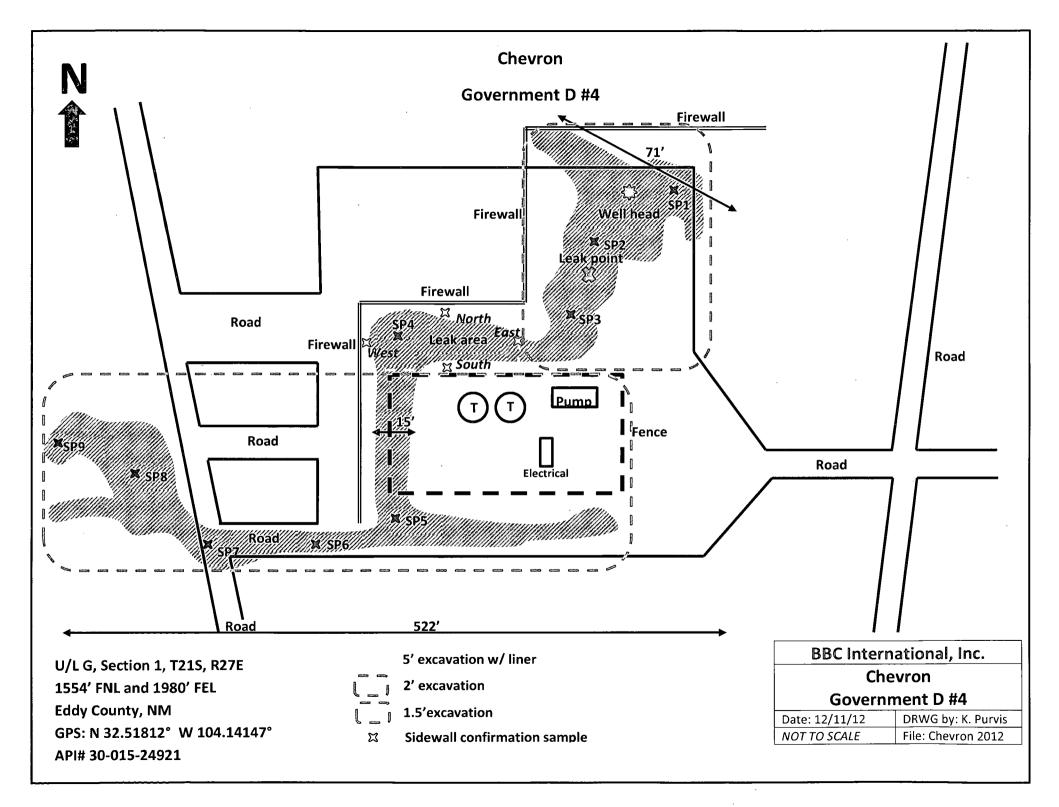
\* Attach Additional Sheets If Necessary

<u>District I</u> 1625 N. French Dr., Hobbs, NM <u>District II</u> 1301 W. Grand Avenue, Artesia, <u>District III</u> 1000 Rio Brazos Road, Aztec, N <u>District IV</u> 1220 S. St. Françis Dr., Santa Fe	, NM 88210 M 87410	Energy Mir Oil C 1220	nerals Conser South	New Mex and Natura vation Div St. France , NM 875	l Resources vision is Dr. NA	APR (	8 2013 ARTES	Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate CDistrict Office in accordance with Rule 116 on back side of form
	Relea	ase Notific	atior	1 and Co	orrective	Actio	n	
				<b>OPERA</b>			🔲 Initia	al Report 🛛 Final Repor
	evron USA Inc. Hobbs, NM 88241			Contact E Telephone I	Bradley Blevi No. (575) 3	ns 91-1462	······	
	ment D #4			Facility Typ				
Surface Owner		Mineral O	wner				Lease N	No. API#30-015-24921
		LOCA	TION	<b>OF</b> REI	LEASE			
Unit Letter Section To	ownship Range	Feet from the	North/	South Line	Feet from the	e East/	West Line	County
G 1	21S 27E	1554	]	North	1980		East	Eddy County, NM
	La	titude <u>N 32.5</u>	<u>1812°</u>	Longitu	de <u>W 104.14</u>	<u>147°</u>		
		NAT	URE	OF REL				
Type of Release Produced				Volume of		bbls		Recovered 70 bbls
	the discharge			12/03/2012	lour of Occurre 2 @ 2:00 pm	ence	Date and	Hour of Discovery
Was Immediate Notice Give		No 🔲 Not Re	quired	If YES, To Mike Brate	Whom? her-NMOCD			
By Whom? Cliff Brunson for					our 12/03/201			
Was a Watercourse Reached	? □ Yes ⊠	No		If YES, Vo	lume Impactin	g the Wat	ercourse,	
If a Watercourse was Impact	ted, Describe Fully.*						·	
Describe Cause of Problem a	and Remedial Action	Taken.*						
			onto the	ground. 70 l	bls of produce	d water w	vere recovere	ed via vacuum truck. The hole
Describe Area Affected and A hole in the discharge caus Remediation was completed	ed 90 bbls of produce	d water to leak c	onto the lan appr	ground. 70 ł oved by Mik	bls of produce e Bratcher on (	d water w )1/16/201	ere recovere 3 via email.	ed via vacuum truck.
I hereby certify that the infor regulations all operators are a public health or the environm should their operations have or the environment. In additi federal, state, or local laws ar	required to report and nent. The acceptance failed to adequately in ion, NMOCD accepta	or file certain re of a C-141 report vestigate and re	lease no t by the mediate	tifications ac NMOCD ma contaminatio	d perform corn arked as "Final on that pose a t	ective act Report" of hreat to g	ions for rele loes not reli round water	eases which may endanger eve the operator of liability , surface water, human health
Signature: Snadly			OIL CO	NSERV	<u>'ATION</u>	DIVISION		
Printed Name: Bradley Bla	evins		A	Approved by	District Superv	isor:		
Title: HES Specialist			A	approval Date	:		Expiration I	Date:
E-mail Address: Bradley.b	levins@chevron.com		c	Conditions of	Approval:			Attached
Date: 3/7/13	Phone:	(575) 391-1462						·

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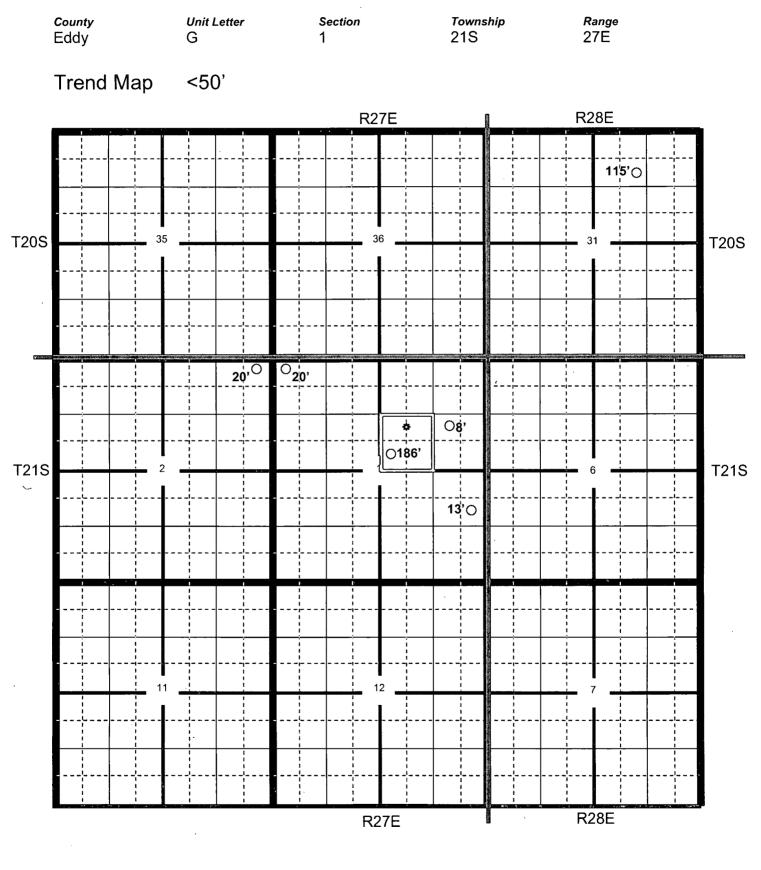
\* Attach Additional Sheets If Necessary





**Groundwater Plot** 

## Chevron Government D #4



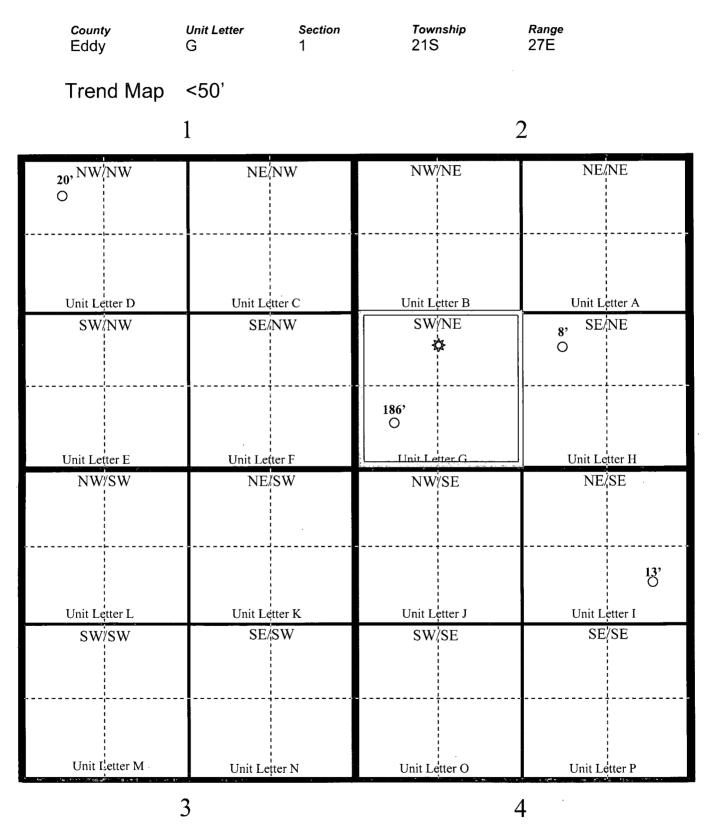
Location

OSEO



Section Quarters

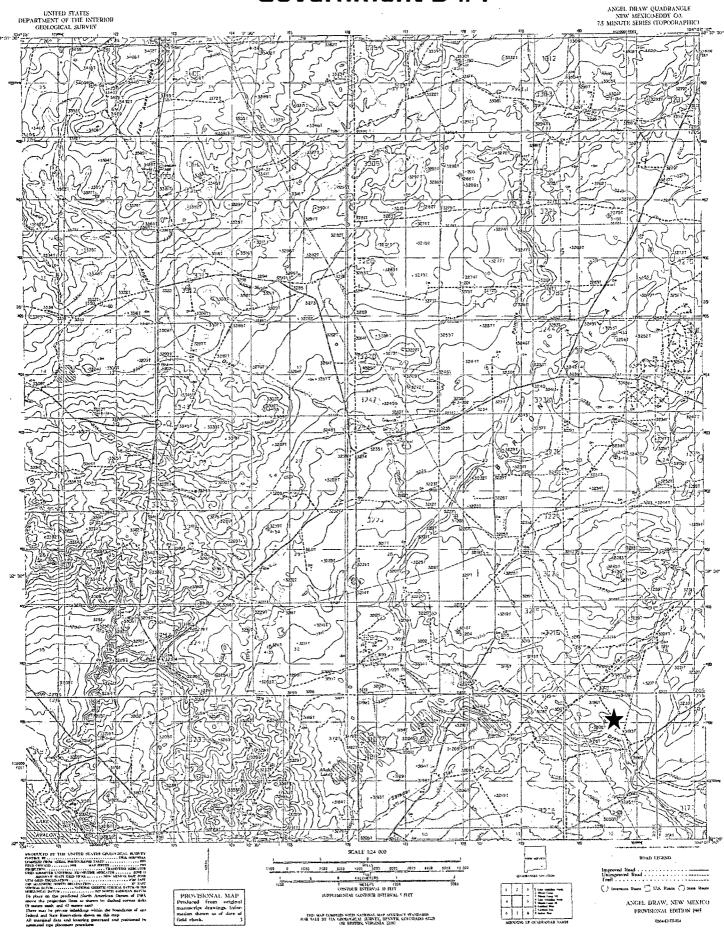
# Chevron Government D #4



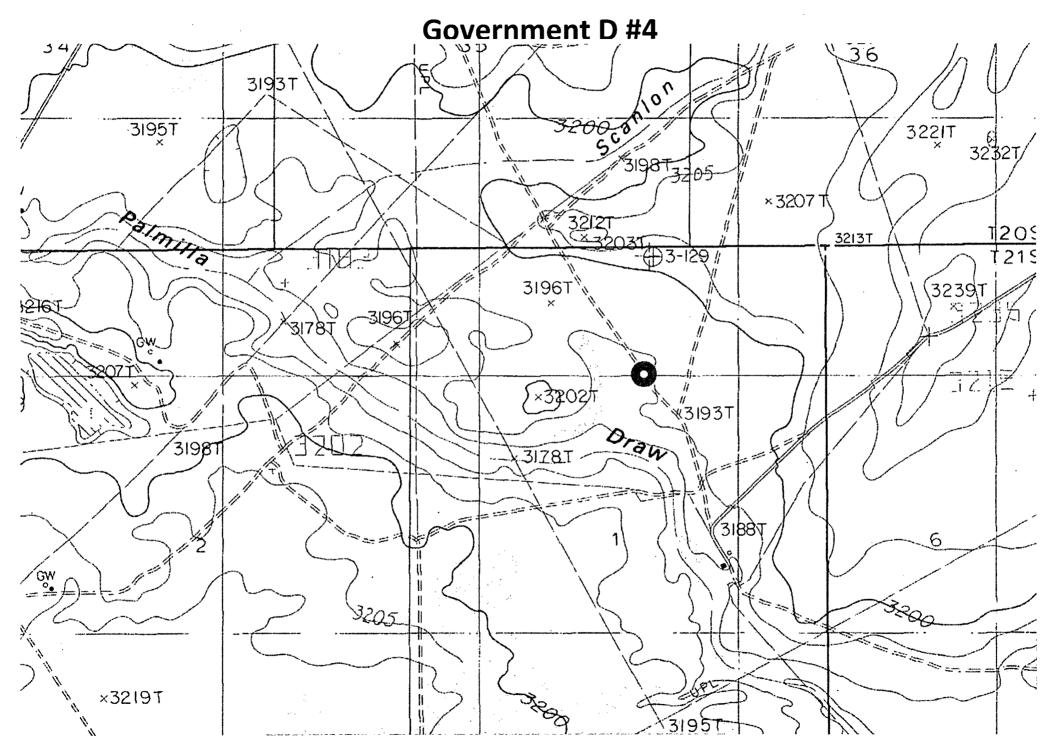
Location

# Chevron

# **Government D #4**



# Chevron



## Laboratory Analytical Results Summary Government D #4

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		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1@4'
Analyte	Method	Date	12/6/12	12/6/12	12/6/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	< 0.300	n/a
Chloride	SM4500CI-B		30400	1730	192
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'
Analyte	Method	Date	12/6/12	12/6/12	12/6/12	12/6/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		32000	6560	736	192
GRO	TPH 8015M		n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a

		Sample	SP3@ SURFACE	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	12/6/12	12/6/12	12/6/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a
Chloride	SM4500CI-B		50400	576	112
GRO	TPH 8015M		n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a

		Sample	SP4@ SURFACE	SP4 @ 1'	SP4 @ 3'	SP4@6	SP4 @ 9'	SP4 @ 11'
Analyte	Method	Date	12/6/12	12/7/12	12/7/12	12/7/12	12/7/12	12/7/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	< 0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		58400	6000	2360	3720	5000	80
GRO	TPH 8015M	_	n/a	<50.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	3070	n/a	n/a	n/a	n/a

## Laboratory Analytical Results Summary Government D #4

		Sample	SP5@ SURFACE	SP5 @ 1'	SP5 @ 3'
Analyte	Method	Date	12/7/12	12/7/12	12/7/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a
Chloride	SM4500CI-B		45200	336	112
GRO	TPH 8015M		n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a

		Sample	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	12/7/12	12/7/12	12/7/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a
Total Xylenes	BTEX 8021B		. n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a
Chloride	SM4500CI-B		16800	176	96
GRO	TPH 8015M		n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a

		Sample SP7 @ SURFACI		SP7 @ 1'	SP7 @ 3'
Analyte	Method	Date	12/7/12	12/10/12	12/10/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	-	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a
Chloride	SM4500CI-B		18000	944	128
GRO	TPH 8015M		n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a

	Sample		SP8@ SURFACE	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	12/10/12	12/10/12	12/10/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	< 0.050	n/a
Toluene	BTEX 8021B		′n/a	< 0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	< 0.300	n/a
Chloride	SM4500CI-B		1060	800	144
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a

## Laboratory Analytical Results Summary Government D #4

		Sample	NORTH SIDEWALL @ 5'	EAST SIDEWALL @ 5'	SOUTH SIDEWALL @ 5'	WEST SIDEWALL @ 5'
Analyte	Method	Date	2/13/13	2/13/13	2/13/13	2/13/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	< 0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	<0.300	< 0.300	<0.300
Chloride	SM4500CI-B		128	112	96	. 96
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



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December 17, 2012

Cliff Brunson BBC International, Inc. P.O. Box 805 Hobbs, NM 88241

RE: GOVERNMENT D #4

Enclosed are the results of analyses for samples received by the laboratory on 12/11/12 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/11/2012	Sampling Date:	12/06/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

## Sample ID: SP 1 @ SURFACE (H202969-01)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	12/14/2012	ND	416	104	400	3.92	

## Sample ID: SP 1 @ 1' (H202969-02)

BTEX 8021B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2012	ND	2.07	104	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2012	ND	2.28	114	2.00	11.9	
Ethylbenzene*	<0.050	0.050	12/14/2012	ND	2.22	111	2.00	12.2	
Total Xylenes*	<0.150	0.150	12/14/2012	ND	6.64	111	6.00	12.8	
Total BTEX	<0.300	0.300	12/14/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	12/14/2012	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	12/12/2012	ND	176	87.8	200	4.15	
DRO >C10-C28	<10.0	10.0	12/12/2012	ND	190	95.1	200	4.50	
Surrogate: 1-Chlorooctane	80.4	65.2-14	0			·····			<u></u>
Surrogate: 1-Chlorooctadecane	92.3	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/11/2012	Sampling Date:	12/06/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		· ·

#### Sample ID: SP 1 @ 4' (H202969-03)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/14/2012	ND	416	104	400	3.92	

## Sample ID: SP 2 @ SURFACE (H202969-04)

Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	12/14/2012	ND	416	104	400	3.92	

#### Sample ID: SP 2 @ 1' (H202969-05)

Chloride, SM4500CI-B	B mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	12/14/2012	ND	416	104	400	3.92	

### Sample ID: SP 2 @ 3' (H202969-06)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	12/14/2012	ND	416	104	400	3.92	

## Sample ID: SP 2 @ 5' (H202969-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/14/2012	ND	416	104	400	3.92	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/11/2012	Sampling Date:	12/06/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

#### Sample ID: SP 3 @ SURFACE (H202969-08)

Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50400	16.0	12/14/2012	ND	416	104	400	3.92	

## Sample ID: SP 3 @ 2' (H202969-09)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/14/2012	ND	416	104	400	3.92	

#### Sample ID: SP 3 @ 3' (H202969-10)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/14/2012	ND	416	104	400	3.92	

## Sample ID: SP 4 @ SURFACE (H202969-11)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP				_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	58400	16.0	12/14/2012	ND	432	108	400	0.00	

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Received:	12/11/2012	Sampling Date:	12/07/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

#### Sample ID: SP 4 @ 1' (H202969-12)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2012	ND	1.90	94.8	2.00	7.49	
Toluene*	<0.050	0.050	12/14/2012	ND	2.07	103	2.00	8.00	
Ethylbenzene*	<0.050	0.050	12/14/2012	ND	2.01	101	2.00	8.89	
Total Xylenes*	<0.150	0.150	12/14/2012	ND	6.13	102	6.00	8.54	
Total BTEX	<0.300	0.300	12/14/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119 9	% 89.4-12	б						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	12/14/2012	ND	432	. 108	400	0.00	
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	<50.0	50.0	12/12/2012	ND	176	87.8	200	4.15	
DRO >C10-C28	3070	50.0	12/12/2012	ND	190	95.1	200	4.50	
Surrogate: 1-Chlorooctane	83.5	% 65.2-14	0						
Surrogate: I-Chlorooctadecane	151 9	63.6-15	.1						

## Sample ID: SP 4 @ 3' (H202969-13)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	12/14/2012	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/11/2012	Sampling Date:	12/07/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

#### Sample ID: SP 4 @ 6' (H202969-14)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	12/14/2012	ND	432	108	400	0.00	

## Sample ID: SP 4 @ 9' (H202969-15)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5000	16.0	12/14/2012	ND	432	108	400	0.00	

#### Sample ID: SP 4 @ 11' (H202969-16)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AP				<u>.</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/14/2012	ND	432	108	400	0.00	

## Sample ID: SP 5 @ SURFACE (H202969-17)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	45200	16.0	12/14/2012	ND	432	108	400	0.00	

## Sample ID: SP 5 @ 1' (H202969-18)

Chloride, SM4500CI-B	nloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/14/2012	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/11/2012	Sampling Date:	12/07/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

#### Sample ID: SP 5 @ 3' (H202969-19)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/14/2012	ND	432	108	400	0.00	

## Sample ID: SP 6 @ SURFACE (H202969-20)

Chloride, SM4500CI-B	Analyze	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	12/14/2012	ND	432	108	400	0.00	

#### Sample ID: SP 6 @ 1' (H202969-21)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/14/2012	ND	432	108	400	0.00	

#### Sample ID: SP 6 @ 2' (H202969-22)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/14/2012	ND	432	108	400	0.00	

### Sample ID: SP 7 @ SURFACE (H202969-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	12/14/2012	ND	432	108	400	0.00	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	12/11/2012	Sampling Date:	12/10/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

## Sample ID: SP 7 @ 1' (H202969-24)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	944	16.0	12/14/2012	ND	432	108	400	0.00			

## Sample ID: SP 7 @ 3' (H202969-25)

Chloride, SM4500CI-B	mg,	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/14/2012	ND ·	432	108	400	0.00	

### Sample ID: SP 8 @ SURFACE (H202969-26)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	12/14/2012	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/11/2012	Sampling Date:	12/10/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

## Sample ID: SP 8 @ 1' (H202969-27)

mg,	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/14/2012	ND	1.90	94.8	2.00	7,49	
<0.050	0.050	12/14/2012	ND	2.07	103	2.00	8.00	
<0.050	0.050	12/14/2012	ND	2.01	101	2.00	8.89	
<0.150	0.150	12/14/2012	ND	6.13	102	6.00	8.54	
<0.300	0.300	12/14/2012	ND ·					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

Surrogate: 4-Bromofluorobenzene (PIL 116 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	12/14/2012	ND	432	108	400	0.00	
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	12/12/2012	ND	176	87.8	200	4.15	
DRO >C10-C28	<10.0	10.0	12/12/2012	ND	190	95.1	200	4.50	
Surrogate: 1-Chlorooctane	85.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	63.6-15	4						

## Sample ID: SP 8 @ 2' (H202969-28)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/14/2012	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	12/11/2012	Sampling Date:	12/10/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

## Sample ID: SP 9 @ SURFACE (H202969-29)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	sult Reporting Limit Analyzed		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/14/2012	ND	432	108	400	0.00	

## Sample ID: SP 9 @ 1' (H202969-30)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/14/2012	ND	432	108	400	0.00	

#### Sample ID: SP 9 @ 2' (H202969-31)

Chloride, SM4500Cl-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	12/14/2012	ND	400	100	400	3.92	

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### **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

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	Company Name: BBC International, Inc.					BILL TO					ANALYSIS REQUEST												
	Cliff Brunson		-			/	P.O.	#:									I						
Address: P.O.	Box 805					0	Company:								1								
city: Hobbs	State: NM	Zip	; 8	3824	11	1	Attn:																
Phone #: 575-397-6388 Fax #: 575-397-0397					_	Addi	ress	;												ł			
Project #: Project Owner: Chesafrace/Ches					ies	CIE	~	,								1				}			
Project Name: Government D #4						State			Zip:												}		
Project Location	: Carlsbad						Pho	ne #	:										ł				
Sampler Name:	Seff Ornelas						Fax	#:															
FOR LAB USE ONLY		<u> </u>	Γ		MATRI	<u>,                                     </u>	Р	RES	ERV.	SAMPLI	NG												
Lab I.D. H202969-	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE	OTHER :	ACIU/BASE:	OTHER :	DATE	TIME	01-	BTEX	HL									
	SP 1 @ Surface	G	1		V			V		12-6-12	8:28 am	1											
02	SP 1 @ 1'	1	Li					$\parallel$		12-6-12		1	$\checkmark$	1								<b></b>	
03	SP 1 @ 4'										9:44 am	1											
	SP 2 @ Surface	_						$\downarrow$			10:30 am	·····							<u>`</u>				
05	SP 2 @ 1'	_			!]						11:00 am	<u> </u>											
	SP 2 @ 3'		11			$\left  - \right $					11:50 am	1											
07	SP 2 @ 5'	₩-				$\left  - \right $		_		12-6-12		V.											
	SP 3 @ Surface	₽-				$\left  \right $					2:00 pm	1	·										
	SP 3 @ 2'	-	ŀŀ	· [		-		-+			8:45 am 9:00 am	4											
10	SP 3 @ 3'	11	11						1	12-7-12	1 0.00 am	× 1	1		L	1	1			I	L	I!	

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	affiliates or successors arising out of or related to the performance	of services hereunder by C.	ardinal, recardless of whether such th	a mas besed upon any of the above stated re	asons or otherwise.				
	Relinguished By:		Received By/ /	/	Phone Result:	O Yes	D No	Add'l Phone #:	
		12-11-12	/ / / / /	/	Fax Result:	🛛 Yes	O No	Add'l Fax #:	
		Time:	I V.I	10000	REMARKS:				
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_	Relinquished By:	Date:	Received By: //	-					
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		Time:							
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	Delivered By: (Circle One)		Sample Con						
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	Sampler - UPS - Bus - Other:		1 SY Dres D'		Į				
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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Page 13 of 15

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IEAE	> 202 2226	EAV (FOR	202 2470
(205	) 393-2326	FAA (303)	393-2410

Company Name	BBC International, Inc.				5. P	· · ·	BI	L TO					1	ANAL	YSIS	S RE	QUE	ST		
Project Manager	Cliff Brunson				P.O.	#:														
Address: P.O.	Box 805				Con	npar	ıy:													
City: Hobbs	State: NM	Zip	: 8	38241	Attn	<b>I:</b>		_												
Phone #: 575-3	397-6388 Fax #: 575	-397	7-0	397	Add	Iress	5:								ł					
Project #:	Project Owner	Ch	B	ipeake/Chestor	Gity	:														
Project Name: C	Government D #4			1 1	Stat			Zip:						l						i l
Project Location	" Carlsbad				Pho	ne #	l:									(				
Sampler Name:	Seff Ornelos				Fax	#:								[						
FOR LAB USE ONLY				MATRIX		PRES	SERV.	SAMPLI	NG					[						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER :	ACID/BASE:	DTHER :	DATE	TIME	- 10	RTEX	Hdl								
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	SP 4 @ 1'						11		10:00 am	·····	$\checkmark$	1		<u> </u>		ļ				 
13	SP 4 @ 3'	<u> </u>							10:21 am			·		.		ļ		ļ		 
	SP 4 @ 6'	<u> </u>					<b> </b>		10:53 am		<b>[</b>			<u> </u>	<b></b>		ļ			 
<u> </u>	SP 4 @ 9'						<b>[</b> ]		11:30 am	·	[		[		-[					 
16	SP 4 @ 11'		$\left  - \right $	┠╾┼╾┼┠┼╼┼╼		_	[		12:19 am 1:01 pm				[		-[			.[	[	 <b></b>
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[17-		- <b> -</b> '-	<b> </b> −)	┨─┼─┼╹┼─┼─	+	+	•							-	-					 
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of Damages. Cardinal's liability and client's exclusive remedy for any claim ansing whether based in contract or tort, shall be analyses. All claims including those for negligence and any other cause whatsoever shall be deamed walved unless made in witting and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinat be liable for incidental or consequential damages, including without limitation, business interruptions, toss of use, or loss of oralits incurred by client, its subsitilaries,

affiliates or successors arising out of or related to the performance of services hereunder by Carting, reporting, and the reason of the above stated reasons or otherwise.

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476  $H \ Z \ \varphi$ 

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 EAX (505) 393-2476

Company Name	BBC International, Inc.				T	· .	BI	LL TO					ļ	NAL	YSIS	RE	QUE	ST			
	r: Cliff Brunson				P.(	0. #:						T		T							
Address: P.O.	Box 805				Cc	mpar	iy:						[						[		
City: Hobbs	State: NM	Zip	: 8	8241	At	tn:						[	[						[		
Phone #: 575-	397-6388 Fax #: 575	397	7-0	397	A	Idres	5:					[	[						[	·	
Project #:	Project Owne	C	v.v	ipeake/Chevre	ACI	ty:	******					[									
Project Name:	Government D #4			T		ate:		Zip:													
Project Locatio	: Carlsbad, DM				Pł	none #	ł:														
Sampler Name:	Jeff Ornelas				Fa	ıx #:															
FOR LAB USE ONLY		Γ.		MATRIX		PRE	ERV.	SAMPL	NG												
Lab I.D. <i>H202969-</i>	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUUGE OTHER :	ACID/BASE:	OTHER :	DATE	TIME	ر '( م	BTEX	TH									
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23,	SP 7 @ Surface						<u> </u>		3:00 pm	1											
24		<u> _</u>	1.						9:45 am	<b>√</b>			·				ļ				
25	SP 7 @ 3'	11	11				11_		10:11 am												Į
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PLEASE NOTE: Lisbility and Damages. Cardinals liability and client's exclusive remedy for any daim ensing whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

	affiliates or successors arising cet of or related to the performance	of services hereunder by Ca	irdinal, recardiess	of whether such flaim is based	upon any of the above stated re-	isons or otherwise.				
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314 Page 14 of 15

Page 15 of 15

**RDINAL LABORATORIES** 

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	BBC International, Inc.							•	E	311	LTO			—		F	NAL	YSIS	REC	QUES	бТ			
	: Cliff Brunson						Р.(	). #:			<u>,</u>			Ι	T		T	1						
Address: P.O.	Box 805						Co	mpa	iny:									ļ						
City: Hobbs	State: NM	Zip	: 8	382	41		At	in:																
Phone #: 575-	397-6388 Fax #: 575-	39	7-0	397	,	******	Ad	dres	ss:								1		1	ł		1		
Project #:	Project Owner	:d	60	NG	1. Ich	10.1	Cit	y:									ļ							
Project Name:	Government D #4			r		sı		ate:			Zip:													
Project Location	n: Carlsbad, NM						Ph	one	#:								ĺ				[	[	1	
Sampler Name:							Fa	x #:																
FOR LAB USE ONLY			Γ		MATI	RIX		PR	SEI	₹٧.	SAMPLI	NG												
Lab I.D. H202969-	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	-12 G1-											
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PLEASE NOTE: Listility and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Certifical within 30 days effor completion of the applicable service, In no event shall Cardinal be fiable for incidentation consequental damages, including without fimitation, business interrupying, loss of use, or loss of profits incurred by client, its subsidiaries,

	affiliates or successors arising out of or related to the performance o	I services hereunder by Cardinal,	regardless of whether such claim is bas	ed upon any of the above stated rea	sons or otherwise.				
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476  $H^2 2 \phi$ 



February 20, 2013

Cliff Brunson BBC International, Inc. P.O. Box 805 Hobbs, NM 88241

RE: GOVERNMENT D #4

Enclosed are the results of analyses for samples received by the laboratory on 02/13/13 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	02/13/2013	Sampling Date:	02/13/2013	
Reported:	02/20/2013	Sampling Type:	Soil	
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	CARLSBAD, NM			

### Sample ID: NORTH SIDE WALL @ 5 FT (H300415-01)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 110 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/19/2013	ND	432	108	400	3.64	
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	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	
Surrogate: 1-Chlorooctane	73.3				237				

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/20/2013	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

#### Sample ID: EAST SIDE WALL @ 5 FT (H300415-02)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					
Surrogate: 4-Bromofluorobensene (PIL	109 5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/19/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	
Surrogate: 1-Chlorooctane	67.3	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 84.1 % 63.6-154

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/20/2013	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

## Sample ID: SOUTH SIDE WALL @ 5 FT (H300415-03)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2,38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 109 % 89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/19/2013	ND	416	104	400	0.00	
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	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/20/2013	Sampling Type:	Soil
Project Name:	GOVERNMENT D #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

#### Sample ID: WEST SIDE WALL @ 5 FT (H300415-04)

BTEX 8021B	_ mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/19/2013	ND	416	104	400	0.00	
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	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	
Surrogate: 1-Chlorooctane	71.3 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.5 9	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **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 $6^{\circ}\text{C}$ Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 7

Page 7 of 7

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476	
Company Name: BBC International, Inc.	新語 BILLTO 主要 ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:
Address: P.O. Box 805	Company:
City: Hobbs State: NM Zip: 88241	Attn:
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:
Project #: Project Owner: [h2U/ON]	City:
Project Name: COUST MENT D#4	State: Zip:
Project Location: Ca.t (STROA	Phone #:
Sampler Name: Gost () Viting	Fax #:
FOR LABUEE ONLY	PRESERV_SAMPLING
We wanted a second	
Lab I.D. Sample I.D. COMP.	
Lab I.D. Sample I.D.	
Lab I.D. Sample I.D. WASTERWATER WASTERWATER H CONTAINERS Solit H CONTAINERS Solit H CONTAINERS	St.UDGE ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE
Lab I.D. Sample I.D. H301415 side	$\overline{3}$ 5 2 $\overline{5}$ 5 DATE TIME X 2-13-17 1:23 A X X X
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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## **Kathy Purvis**

From:	Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us></mike.bratcher@state.nm.us>
Sent:	Wednesday, January 16, 2013 4:19 PM
То:	Cliff P. Brunson
Cc:	Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	RE: Chevron-Government D #4-Remediation Plan

Reference: Chevron USA \* Government D 4 \* 30-015-24921 \* G-1-21s-27e \* Eddy County, New Mexico NMOCD Reference Number: 2RP-1455 \* Date of release: 12/3/12

Cliff,

Your proposal for remediation of the above referenced release is approved. The site is situated on Federal surface and may require like approval by BLM.

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, 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 P. Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Wednesday, January 16, 2013 2:40 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Chevron-Government D #4-Remediation Plan

Mike,

This e-mail is to confirm our discussion on January 14, 2013 concerning the remediation plan for the release that occurred at the Chevron Government D #4 tank battery. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Chevron will excavate impacted soils in the areas of SP1, SP2, and SP3 to a depth of 2 feet. In the area around SP4, the excavation will be 5 feet in depth then a compacted clay liner will be installed. In the areas depicted on the drawing by SP5, SP6, SP7, SP8, and SP9, the soil will be excavated to a depth of 1.5 feet. Confirmation sidewall samples will be taken from the 5 foot excavation around SP4 and analyzed for TPH, BTEX, and Chloride. These sample results will be forwarded to the OCD and discussed to obtain backfill approval. Once backfill approval is received, the site will be backfilled with clean soil. The depth to groundwater is this area is than 50 feet.

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

Chevron and I thank you for your assistance in handling this matter.

Thanks, Cliff

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