PJ XK 1535150940

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

Form C-141 Revised August 8, 2011

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

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

			Kei	ease Notifica	ation	i and Co	orrective A	ction			
						OPERA'	ΓOR	🔀 Ini	tial Report	П	Final Report
Name of Co	mpany	Oxy Permia	n Ltd.	<del></del>			hancey Summe				11202 213000
		tanolind Rd,		NM 88240	1	Telephone I					
Facility Nar		AU #98				Facility Typ					
Sues Cur	Val	Muses		Min and Or				ATRIA	- 20 005 1	0006	- 50
Surface Ow	ner Kel	ly Myers	<del></del>	Mineral O	wner		<del></del>	APIN	o. 30 <b>-</b> 025-1	0906 (1	nearest well)
				LOCA'	TION	OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County		
,	31	226	270						1.0	373.6	
	31	23S	37E	<u> </u>			<u> </u>		Lea Coun	.y, NM	
			]	Latitude <u>N 32.25</u>	897°	Longitu	de <u>W 103.2073:</u>	<u>5°</u>			
				NATI	nor:	OF RELI	FACE				
Type of Relea	asa Oilar	nd Produced v	vater	NAI	OKE,		Release 2 bbls oi	1 Volume	Recovered		
Type of Reio	ase on a	na i rodacca v	valoi				duced water	0 bbls	Recovered		Ì
Source of Rel	lease Ove	r pressure in 3	" poly pr	oduction flow line			our of Occurrenc	e Date an	d Hour of Dis	covery	
- <u></u>						04/10/2014					
Was Immedia	ate Notice C		V== [	No Not Rec	mired	If YES, To	Whom? eking-NMOCD, (	Ionnifor Van Cur	on DIM		
D 77.0	1 10 0		. 63 [_	1 No 🗀 Not Rec	uncu						
By Whom? Was a Watero	Jennifer G	nikey					our 04/10/2014 dume Impacting t				
was a water	Louise Reac	neu:	Yes 🗵	l No		11 1 1 1 1 1 1 2 3 , V C	nume impacting t	ne watercourse.			J
10 11 1						<u></u>		<del>.</del>			
If a Watercou	irse was im	pacied, Desen	be runy.	•							
				Peri 1 un					<u> </u>		
Describe Cau	se or Proble	em and Remed	IIAI ACTIO	n laken.*							-
Over pressure	in a 3" pol	v production i	flow line o	caused 2 bbls of oil	and 18	bbls of prod	uced water to leal	conto the ground	. No fluids w	ere rec	overed and
the line was re										•	
		-1.03		<del>-,</del>							
Describe Area	a Affected a	and Cleanup A	ction Tak	ten.*							
The affected a	area is appro	oximately 80'	х 80' оп а	and off location. F	temedia	ation will be	completed in acco	ordance with a re	nediation pla	n appro	ved by
NMOCD and	the BLM.	<b>,</b>							<b>F</b>	<b></b> FF	
							<del></del>	<del></del> _			
				is true and comple d/or file certain rel							
				e of a C-141 report							
should their o	perations h	ave failed to a	dequately	investigate and rer	nediate	contamination	on that pose a thre	at to ground wat	er, surface wa	ter, hur	man health
or the environ	ment. In ac	ddition, NMO	CD accep	tance of a C-141 re	port do	es not relieve	the operator of r	esponsibility for	compliance w	ith any	other
federal, state,	or local law	we and/or regu	lations.		<sub> </sub>		- 011 - 0011		. D		
1		//		<u> </u>			OIL CONS	SERVATION	DIVISIC	<u>)N</u>	
Signature:	-				1						į
				-		approved by	Environmental Sp	ecialist:			Ì
Printed Name	: Chance	y Summers						<del></del>			
Title: HES	Specialist					Approval Dat	۵,	Eii	Data		
riue: mes	aberentat					rbhroast Dar	<u> </u>	Expiration	Date:		<u></u> .
E-mail Addre	ss: <u>Chan</u> c	cey.Summers@	Roxy.com	<u></u>	c	Conditions of	Approval:		Agencie - 1		
									Attached	L	
Date:	15-19	•	Phone:	(575) 397-8216	_ 1.						

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# Leking, Geoffrey R, EMNRD

From:

Cliff P. Brunson <cbrunson@bbcinternational.com>

Sent:

Thursday, June 26, 2014 8:20 PM

To:

Leking, Geoffrey R, EMNRD

Cc:

C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject:

OXY-MLMU #98-Remediation Plan

Attachments:

Remediation Packet, MLMU #98.pdf

HOBBS OCD

JUN 2 6 2014

RECEIVED

Geoff,

This e-mail is to confirm our conversation on June 19, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will back drag the spill area in the areas of SP1 and SP2. In the areas around SP3 and SP4, Oxy will excavate to a depth of 1 foot as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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

E-Mail: <u>cbrunson@bbcinternational.com</u>

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# Leking, Geoffrey R, EMNRD

From:

Leking, Geoffrey R, EMNRD

Sent:

Tuesday, July 01, 2014 2:42 PM

To:

'Cliff P. Brunson'

Cc:

C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject:

OCD Concurrence with Various OXY Remediation Plans

Cliff

#### The OCD concurs with the:

- 1) OXY-State C Trac 11 Battery-Remediation Plan
- 2) OXY-Fred Turner JR B Battery-Remediation Plan
- 3) OXY-Federal 27 #8-Remediation Plan
- 4) OXY-MLMU #98-Remediation Plan
- 5) OXY-South Mattix Battery-Remediation Plan
- 6) OXY-MLMU Satellite #2-Remediation Plan
- 7) OXY-MLMU #71-Remediation Plan

Approval of the Red Tank 35 Fed #3 Remediation Plan is dependent on your response regarding the excavation depth at SP2 and SP3. Thanks Cliff.

Geoffrey Leking Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

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

**Sent:** Thursday, June 26, 2014 8:30 PM

To: Leking, Geoffrey R, EMNRD

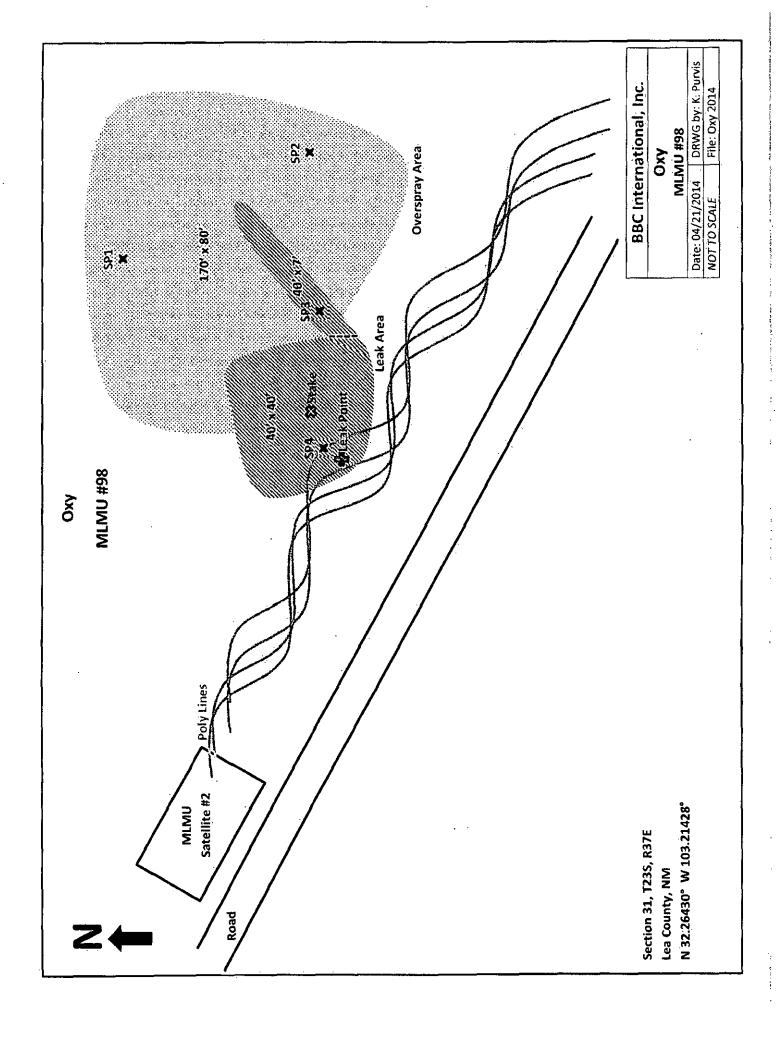
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** OXY-State C Trac 11 Battery-Remediation Plan

Geoff,

This e-mail is to confirm our conversation on June 19, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 4 feet in the area around SP1, 1 foot in the areas of SP2 and SP3, 2 feet in the area of SP4, and 1 foot in the areas of SP5 and SP6 as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff



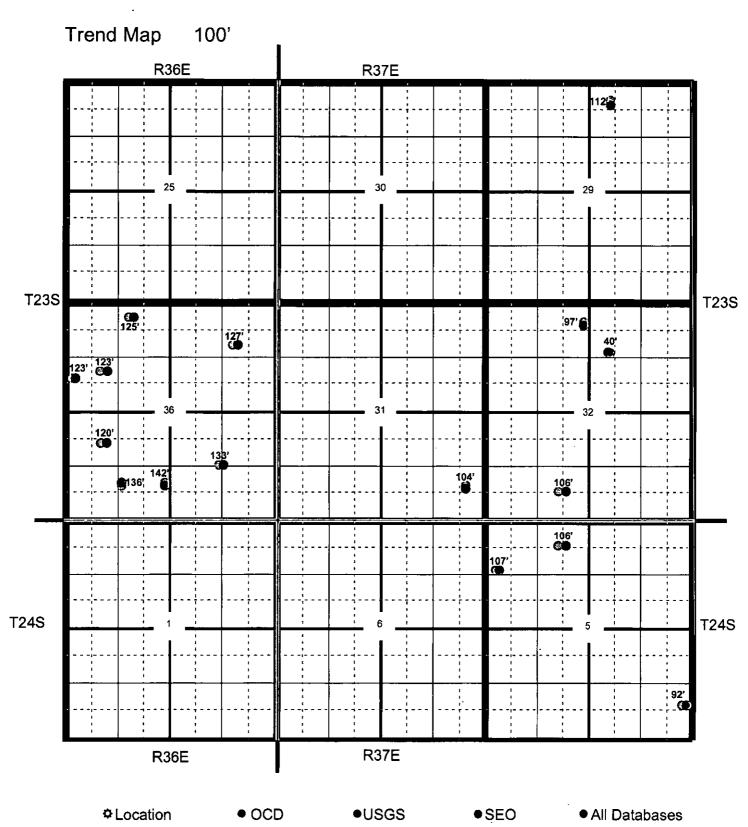
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# **Groundwater Plot**

# Oxy MLMU #98

CountyUnit LetterSectionTownshipRangeLea3123S37E



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# Section Quarters

# Oxy MLMU #98

CountyUnit LetterSectionTownshipRangeLea3123S37E

Trend Map 100'

1

NW/NW	NE/NW	NW/NE	NE/NE
		/	
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E NW/SW	Unit Letter F NE/SW	Unit Letter G NW/SE	Unit Letter H NE/SE
, , , , ,			
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
sw/sw	SE/SW	SW/SE	SE/SE
			<b>€</b> <sup>104</sup> '
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Location

• OCD

USGS

• SEO

All Databases

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				·
			·	

# Laboratory Analytical Results Summary MLMU #98

Indicate			Samole	SP1@	SP1 @ 1,
Method Date   Nethod Date				Surface	, ,
### ### ##############################	Analyte	Method	Date	4/28/14	4729/14
BTEX 8021B BTEX 8021B BTEX 8021B enes BTEX 8021B EX BTEX 8021B SM4500CLB TPH 8045M				. €Mg/m	у таука
ne BTEX 8021B  Senzene BTEX 8021B  Xylenes BTEX 8021B  BTEX BTEX 8021B  Ide SM4500CLB  TEM 8045M  TEM 8045M	Benzene	BTEX 8021B		<0.050	<0.050
Xylenes BTEX 8021B  Xylenes BTEX 8021B  BTEX BTEX 8021B  Ide SM4500CLB  TDH 8045M	Toluene	BTEX 8021B		<0.050	<0.050
Xylenes BTEX 8021B BTEX BTEX 8021B Ide SM4500CLB TPH 8045M	Ethylbenzene	BTEX 8021B		<0.050	<0.050
Ide SM4500CLB TPH 8015W	<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
ide SM4500CHB TPH 8015M	Total BTEX	BTEX 8021B		<0.300	<0.300
TPH 8015M	Chloride	SM4500CLB		<16.0	<16.0
TPH 8015M	GRO	TPH 8015M		<10.0	<10.0
10000	DRO	TPH 8015M		231	0'01>

		Sample	SP2 @ Surface	Surface Spz @1"
Analyte	Method	Date	1/29/14	4729/14
			та/Ка	бующ
Benzene	BTEX 8021B		<0.050	050.0>
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	050'0>
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CLB		64.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		204	<10.0

		Sample	⊬ '@ εd\$ .	SP3 @ 1.	SP3 @ 2'	SP3 @ 3	SP3 @ 3
Analyte	Method	Date	Surface 4/29/14		41/82/14		4129/14
			тд/Ка	mg/Kg	mg/Kg	mg/Kg	ë, img/Kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.718	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		4.82	<0.050	<0.050	<0.050	<0.050
Total Xylenes	Xylenes BTEX 8021B		16.3	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		21.9	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-8		1490	640	<16.0	<16.0	32.0
GRO	TPH 8015M		1220	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		46600	81.6	62.1	<10.0	<10.0

		Sample	SP4@ Surface	SP4 @ 1"	SP4@Z	SP4 @ 3
Analyte	Method	Date	11/62/14	409/14	41/29/14	4/29/14
			" mg/Kg. "	™ gX/gm 💯	° 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	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes BTEX 8021B	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		3080	448	320	48.0
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0
DRO	TPH 8015M		18100	<10.0	1440	<10.0



May 06, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #98

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 10:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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> 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 Tribal methanes (T

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

	•	



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

Fax To:

(575) 397-0397

Analyzed By: ms

Received:

04/30/2014

Reported:

BTEX 8260B

05/06/2014

Project Name:

MLMU #98

Project Number:

NONE GIVEN

mg/kg

104 %

98.5 %

65.2-140 63.6-154

Project Location:

JAL, NM

Sampling Date:

Sampling Type:

04/29/2014

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: SP 1 @ SURFACE (H401298-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	94.5	% 61.3-14	2						
Surrogate: Toluene-d8	105	% <sup>*</sup> 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	107	% 65.7-14	11						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP			- 111		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chforlde	<16.0	16.0	05/05/2014	ND	400	100	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	05/06/2014	ND ·	194	97.1	200	2.55	
DRO >C10-C28	231	10.0	05/06/2014	ND	212	106	200	4.06	

# Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

Celey D. Keine

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

Fax To: (575) 397-0397

Received:

04/30/2014

Sampling Date: Sampling Type: 04/29/2014

Reported:

05/06/2014

Soil

Project Name:

MLMU #98

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

JAL, NM

#### Sample ID: SP 1 @ 1' (H401298-02)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	95.3	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103 9	% 65.7-14	1						
Chloride, SM4500Cl-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	05/05/2014	ND	400	100	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	119 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	63.6-15	4 .						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune

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

Fax To:

(575) 397-0397

Received:

04/30/2014

Reported:

05/06/2014

Project Name: Project Number: MLMU #98 NONE GIVEN

Project Location:

JAL, NM

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ SURFACE (H401298-03)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	96.7	% 61.3-14	2					•	
Surrogate: Toluene-d8	106 9	% 71.3-12	9				•		
Surrogate: 4-Bromofluorobenzene	103 9	65.7-14	I						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	204	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	108 9	65.2-14	o		· · · · · ·	<del></del> _			
Surrogate: 1-Chlorooctadecane	114 9	6 63.6-15	4						

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and dient's exclusive rem ries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether

Celey & Keine

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	•		



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

Fax To:

(575) 397-0397

Received:

04/30/2014

Reported:

05/06/2014

Project Name: Project Number: MLMU #98

Project Location:

NONE GIVEN

JAL, NM

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ 1' (H401298-04)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	98.0 9	61.3-14	2						
Surrogate: Toluene-d8	105 %	6 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103 %	65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/i	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: I-Chlorooctane	105 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 %	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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

Fax To: (575) 397-0397

Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/06/2014 MLMU #98

Sampling Type:

Soil

Project Name:

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

JAL, NM

Sample Received By:

Jodi Henson

# Sample ID: SP 3 @ SURFACE (H401298-05)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	0.718	0.100	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	4.82	0.100	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	16.3	0.300	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	21.9	0.600	05/05/2014	ND					
Surrogate: Dibromofluoromethane	95.9	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9			_			
Surrogate: 4-Bromofluorobenzene	178	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS		<u>.</u>			S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1220	100	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	46600	100	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	305	% 65.2-14	0					<del>, ,</del>	·
Surrogate: 1-Chlorooctadecane	1330	% 63.6-15	4						

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04/29/2014

Reported:

05/06/2014

Sampling Type:

Soil

Project Name:

MLMU #98

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

JAL, NM

#### Sample ID: SP 3 @ 1' (H401298-06)

BTEX 8260B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5,20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	93.9	% 61.3-14	12						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	107	% 65.7-14	II						
Chloride, SM4500Cl-8	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	640	16.0	05/05/2014	ND	400	100	400	3,92	
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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	81.6	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	122 9	% 65.2-14	0						#UU 18 #
Surrogate: 1-Chlorooctadecane	130 9	63.6-15	4						

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Fax To: (575) 397-0397

Received:

04/30/2014

Reported: Project Name: 05/06/2014 MLMU #98 **NONE GIVEN** 

Project Number: Project Location:

JAL, NM

Sampling Date:

04/29/2014

Sampling Type:

Soll

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 3 @ 2' (H401298-07)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	98.5	% 61.3-14	2						
Surrogate: Toluene-d8	102 9	6 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104 %	65.7-14	1						
Chloride, SM4500Cl-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	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					- <u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	62.1	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	108 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 %	6 63.6-15	4						

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Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/06/2014

Sampling Type:

Soil

Project Name:

MLMU #98

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

JAL, NM

Samp	le	ID:	SP	3	0	3'	(H401298-08)	
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BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	· RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	<0.050	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	<0.050	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	<0.150	0.150	05/06/2014	ND	6.44	107	6.00	0.679	
Total BTEX	<0.300	0.300	05/06/2014	ND					
Surrogate: Dibromofluoromethane	95.6	% 61.3-14	12						
Surrogate: Toluene-d8	105	% 71.3-12	9	•					
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	11						
Chloride, SM4500Cl-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	05/05/2014	ND	400	100	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	<b>2</b> 12	106	200	4.06	
Surrogate: 1-Chlorooctane	110	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	i4						

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Received:

04/30/2014

Reported:

05/06/2014

Project Name:

MLMU #98 NONE GIVEN

Project Number: Project Location:

JAL, NM

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: SP 3 @ 4' (H401298-09)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	<0.050	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	< 0.050	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	<0.150	0.150	05/06/2014	ИD	6.44	107	6.00	0.679	
Total BTEX	<0.300	0.300	05/06/2014	ND					
Surrogate: Dibromofluoromethane	98.6	% 61.3-14	12						
Surrogate: Toluene-d8	1049	% 71.3-12	19						
Surrogate: 4-Bromofluorobenzene	98.8	% 65.7-14	<i>II</i> .						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	rng/	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	05/06/2014	ND	194	97.1	200 .	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	117 9	6 65.2-14	0	<u></u>					
Surrogate: I-Chlorooctadecane	1169	6 63.6-15	4						

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Celey D. Kuna

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Fax To:

(575) 397-0397

Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/06/2014

Sampling Type:

Soil

Project Name:

MLMU #98 NONE GIVEN Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

JAL, NM

#### Sample ID: SP 4 @ SURFACE (H401298-10)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2014	ND	2.48	124	2.00	0.626	
Toluene*	<0.050	0.050	05/03/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.42	107	6.00	4.81	
Total BTEX	<0.300	0.300	05/03/2014	ND					
Surrogate: Dibromofluoromethane	102 9	% 61.3-14	2						
Surrogate: Toluene-d8	99.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	112 9	65.7-14	I						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	18100	100	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	82.9 5	% 65.2-14	0						
Surrogate: I-Chlorooctadecune	759 9	63.6-15	4						

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Celey D. Keine

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Fax To: (575) 397-0397

Received:

04/30/2014

Reported: Project Name: 05/06/2014 MLMU #98

Project Number: Project Location: NONE GIVEN JAL, NM

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP 4 @ 1' (H401298-11)

BTEX \$260B	mg/	'kg	Analyzed By: ms			_		_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	05/03/2014	ND	2.17	109	2.00	0.904	
Toluene*	<0.050	0.050	05/03/2014	ND	2.33	117	2.00	2.93	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2.25	112	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.94	116	6.00	3.25	
Total BTEX	<0.300	0.300	05/03/2014	ND					
Surrogate: Dibromofluoromethane	98.8	% 61.3-14	2				•	-	
Surrogate: Toluene-d8	100	% 71.3-12	19						
Surrogate: 4-Bromofluorobensene	104 9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	448	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	113 9	65.2-14	0			_			
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/06/2014

Sampling Type:

Soil

Project Name:

MLMU #98

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

JAL, NM

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 2' (H401298-12)

BTEX 8260B	<u>mg/</u>	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2014	ND	2.17	109	2.00	0.904	
Toluene*	<0.050	0.050	05/03/2014	ND	2.33	117	2.00	2.93	
Ethylbenzene*	<0.050	0.050	05/03/2014	ND	2,25	112	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/03/2014	ND	6.94	116	6.00	3.25	
Total BTEX	<0.300	0.300	05/03/2014	ND					
Surrogate: Dibromofluoromethane	103 %	61.3-14	2						
Surrogate: Toluene-d8	98.75	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	124 9	65.7-14	1						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	320	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: M5						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	1440	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	115 %	6 65.2-14	0					<u>-</u>	
Surrogate: 1-Chlorooctadecane	137 %	6 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Fax To: (575) 397-0397

Received:

04/30/2014

04/29/2014

Reported:

05/06/2014

Sampling Date:

MLMU #98

Sampling Type:

Soil

Project Name:

**NONE GIVEN** 

Sampling Condition:

Cool & Intact

Project Number: Project Location: JAL, NM

Sample Received By:

Jodi Henson

# Sample ID: SP 4 @ 3' (H401298-13)

BTEX 82608	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.17	109	2.00	0.904	
Toluene*	<0.050	0.050	05/05/2014	ND	2.33	117	2.00	2.93	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.25	112	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.94	116	6.00	3.25	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	95,7	% 61.3-14	2						
Surrogate: Toluene-d8	103 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobensene	96.9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze		_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/05/2014	ND	400	100	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	05/06/2014	ND	194	97.1	200	2.55	
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	212	106	200	4.06	
Surrogate: 1-Chlorooctane	111 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						•

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\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and dient's exclusive remedy for any dairn arising, whether based in contract or tort, shall be limited to the amount paid by dient for analyses. any other cause whatsoever shall be deemed waived unless made in writing and incorrect by Cardinal within thirty (3D) days after completion of the applicable service. In no event shall Cardinal be lable 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 this services hereunder by Cardinal, regardless of whether such claims abased 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 Laboratomes.

Celey & Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
•	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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