

Closure Report

RECEIVED

By OCD; Dr. Oberding at 9:52 am, Mar 24, 2015

Site Description

Site Name:	Mescalero SWD
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 14, T10S, R32E
County:	Lea County, NM
GPS Coordinates:	N 33.44252° W 103.64709°

Release Data

Date of Release:	05/21/2012 and 05/23/2012
Type of Release:	Oil and produced water
Source of Release:	Tank overflow and plunging packing failure
Volume of Release:	2 bbls oil, 64 bbls produced water and 1 bbl oil, 109 bbls water
Volume Recovered:	35 bbls and 99 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire leak to a depth of 5 feet. Excavate an additional 5 feet (10' total) in the area of SP2. Install a compacted clay liner in the entire leak area and backfill the site with clean soil.	
Remediation Activities:	01/20/2015 to 02/14/2015	
Plan Sent to OCD:	04/25/2014	Meeting: Cliff Brunson and Geoffrey Leking
OCD Approval of Plan:	04/25/2014	Meeting: Cliff Brunson and Geoffrey Leking
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 06/07/2012
Final C-141	Signed 02/27/2015
Site Diagram	May 2012
Groundwater Plot	50'
TOPO Maps	May 2012
Lab Summary	06/01/2012-06/05/2012 and 06/27/2012-06/28/2012
Lab Analysis	06/01/2012-06/05/2012 and 06/27/2012-06/28/2012
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.

03/09/2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Mescalero SWD	Facility Type	Salt Water Disposal Facility

Surface Owner	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	14	10S	32E					Lea County, NM

Latitude 33.44252

Longitude 103.64709

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	2 bbls oil & 64 bbls produced water	Volume Recovered	35 bbls of produced water
Source of Release	Plugged screen on injection pump caused overflow of tank	Date and Hour of Occurrence	5/21/12 @ 10:00 am	Date and Hour of Discovery	5/21/12 @ 1:22 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking- OCD		
By Whom?	Chris Jones	Date and Hour	5/22/12 @ 2:10 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

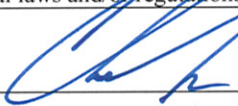
Describe Cause of Problem and Remedial Action Taken.*

A screen on the injection pump became plugged and caused the tank to overflow. 35 bbls of produced water were recovered via vacuum truck. Remediation will be performed according to a NMOCD-approved remediation plan.

Describe Area Affected and Cleanup Action Taken.*

Oil and produced water leaked inside the firewall affecting an area approximately 20' x 20'. 35 bbls of produced water were recovered and additional remediation will be performed in accordance with a NMOCD-approved remediation plan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Christopher Jones		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Christopher_Jones@oxy.com		Conditions of Approval:	
Date: <u>6-7-12</u> Phone: (575) 628-4121		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Mescalero SWD	Facility Type	Salt Water Disposal Facility

Surface Owner	Mineral Owner	Lease No.
---------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	14	10S	32E					Lea County, NM

Latitude 33.44252

Longitude 103.64709

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	1 bbls of oil & 109 bbls of produced water	Volume Recovered	99 bbls of produced water
Source of Release	Packing on tri-plex pump plunger failed	Date and Hour of Occurrence	5/23/12 @ 5:00 am	Date and Hour of Discovery	5/23/12 @ 10:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking- OCD		
By Whom?	Chris Jones	Date and Hour	5/24/12 @ 9:16 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The packing on a tri-plex pump plunger failed causing 110 bbls of oil and produced water to leak onto the ground. 99 bbls of produced water were recovered via vacuum truck. Remediation will be performed according to a NMOCD-approved remediation plan.

Describe Area Affected and Cleanup Action Taken.*

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OIL CONSERVATION DIVISION

Signature:

Printed Name: Christopher Jones

Title: HES Specialist

E-mail Address: Christopher_Jones@oxy.com

Date: 6-7-12 Phone: (575) 628-4121

Approved by District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

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Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
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Surface Owner	Mineral Owner	API No.	

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Latitude N 33.44252° Longitude W 103.64709°

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Signature: Chris Jones <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o=oxy, email=chjones88@yahoo.com, c=US Date: 2013.03.02 13:38:53 -0600</small>	OIL CONSERVATION DIVISION		
Printed Name: Christopher Jones	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>2/27/15</u>	Phone:		

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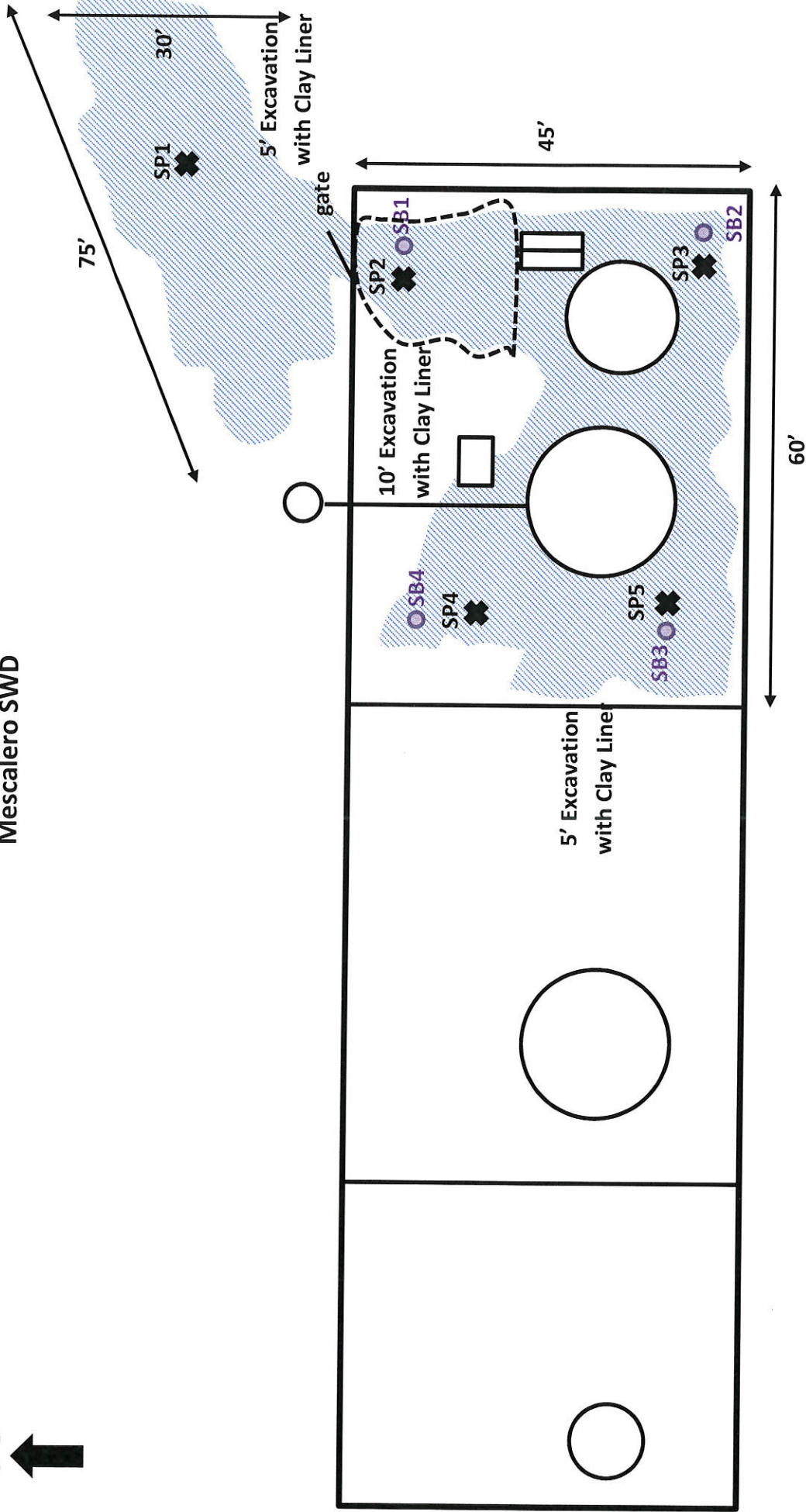
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Signature: Chris Jones <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o, ou, email=ckjones88@yahoo.com, c=US Date: 2015.03.02 13:39:12 -06'00'</small>		OIL CONSERVATION DIVISION			
Printed Name: Christopher Jones		Approved by Environmental Specialist:			
Title: HES Specialist		Approval Date:		Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: <u>2/27/15</u> Phone:					

* Attach Additional Sheets If Necessary



Oxy
Mescalero SWD



Section 14, T10S, R32E
Lea County, NM
GPS: N 33.44252, W 103.64709

BBC International, Inc.		
Oxy		
Mescalero SWD		
Date: 05/24/12	DRWG by: K. Purvis	
NOT TO SCALE	File: Oxy 2012	



Groundwater Plot

Oxy Mescalero SWD

County
Lea

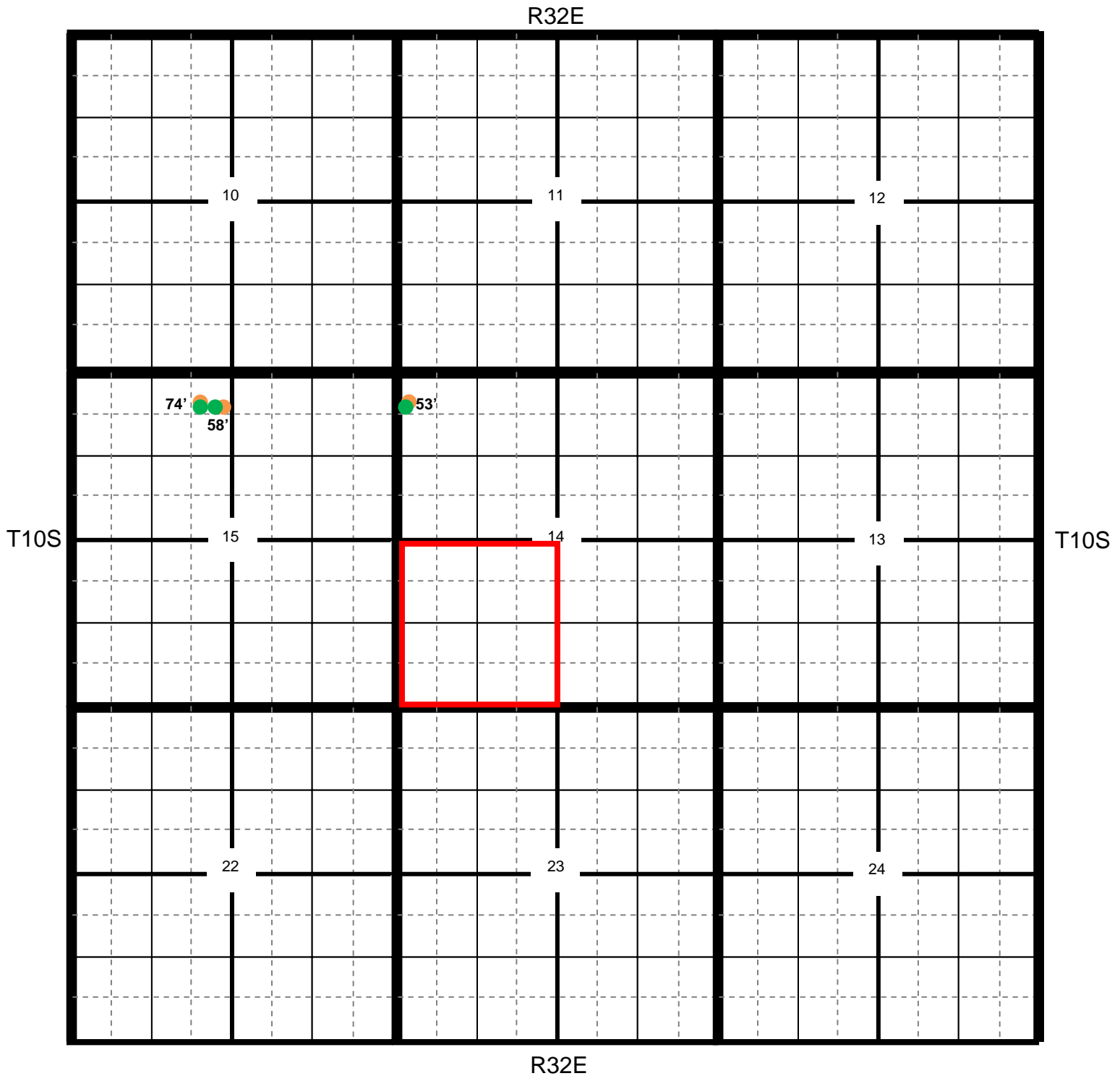
Unit Letter
SW ¼

Section
14

Township
10S

Range
32E

Trend Map ~50'



Location

OCD

USGS

SEO

All Databases

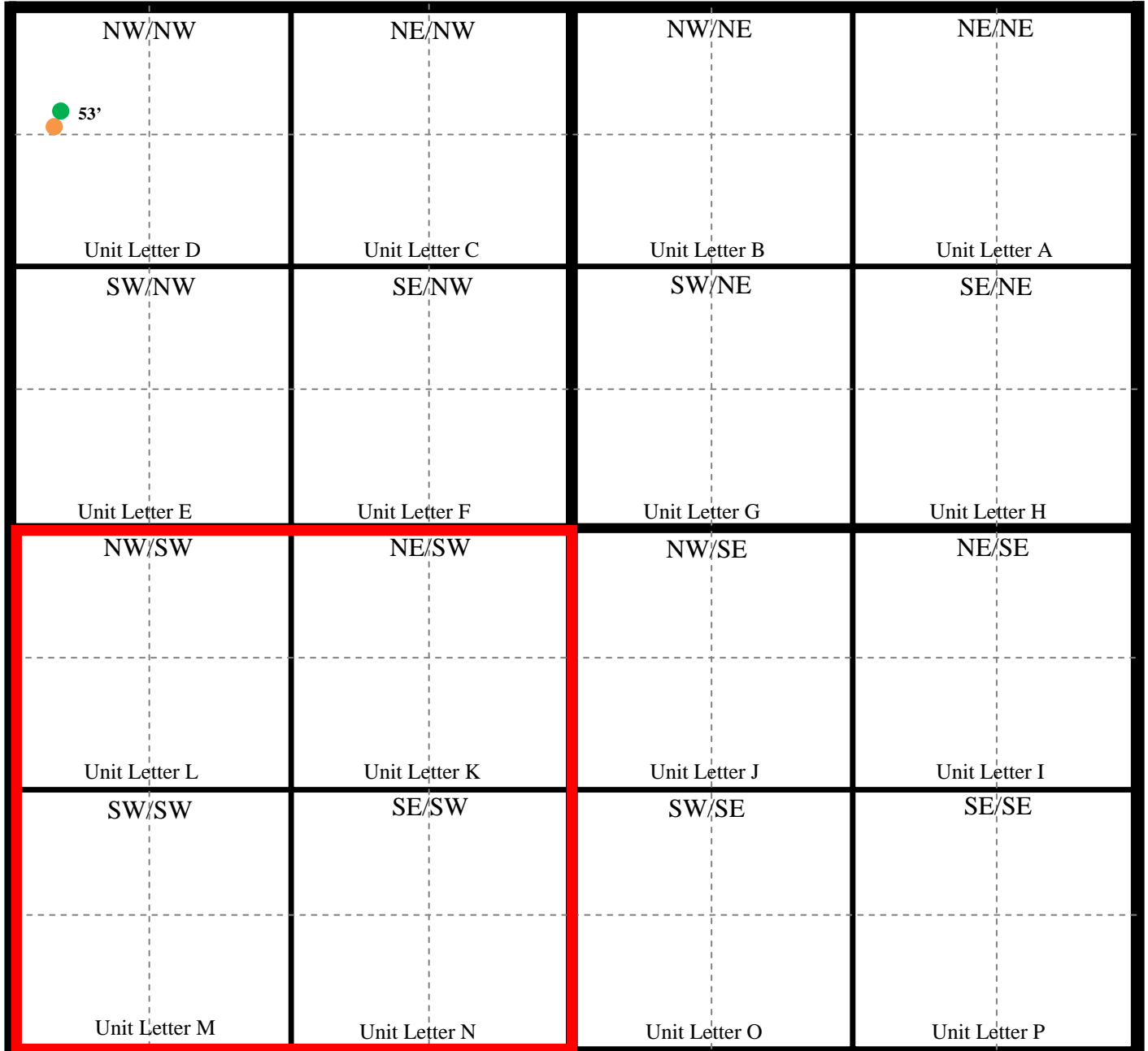
Oxy Mescalero SWD

County
Lea
 Unit Letter
SW ¼
 Section
14
 Township
10S
 Range
32E

Trend Map ~50'

1

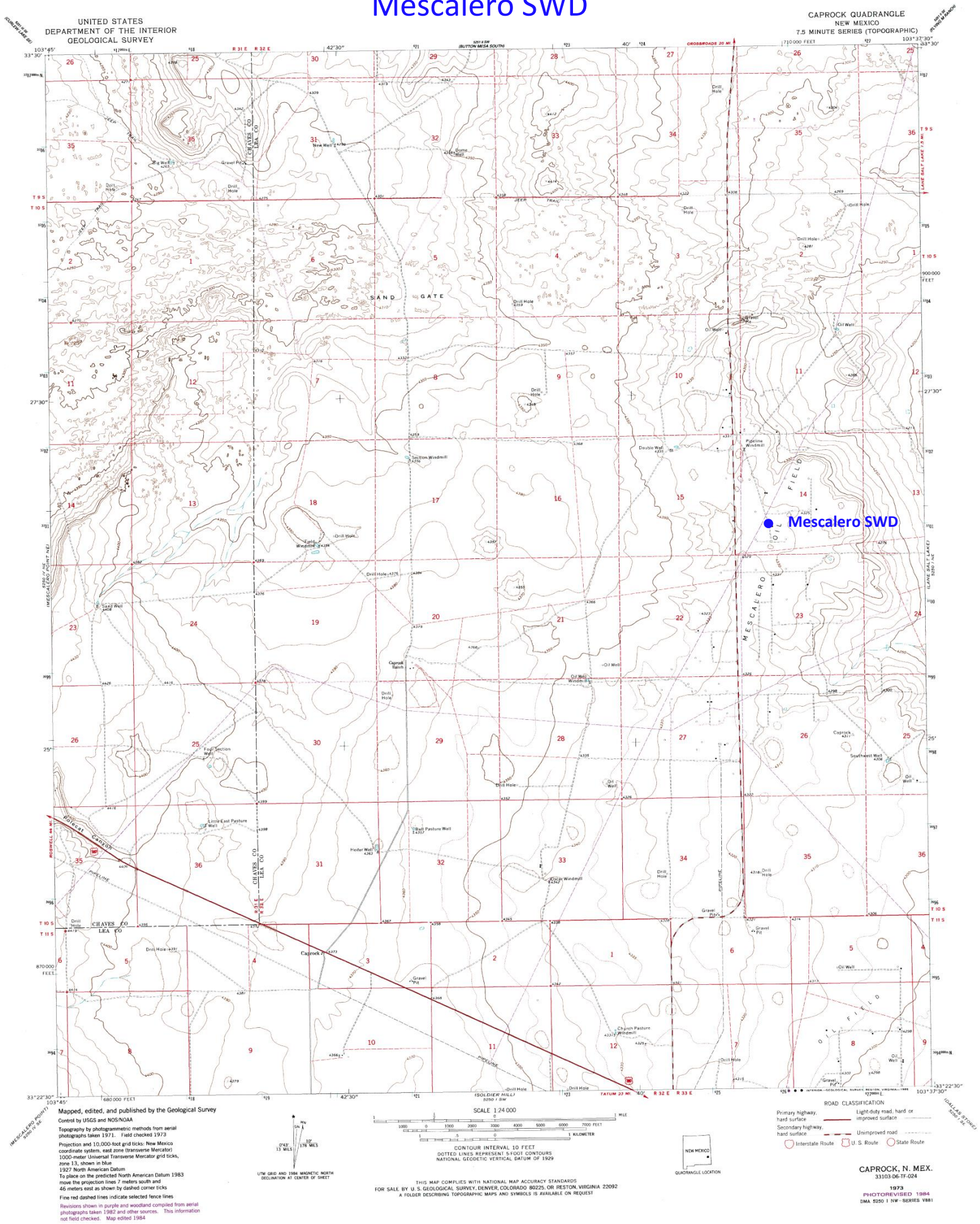
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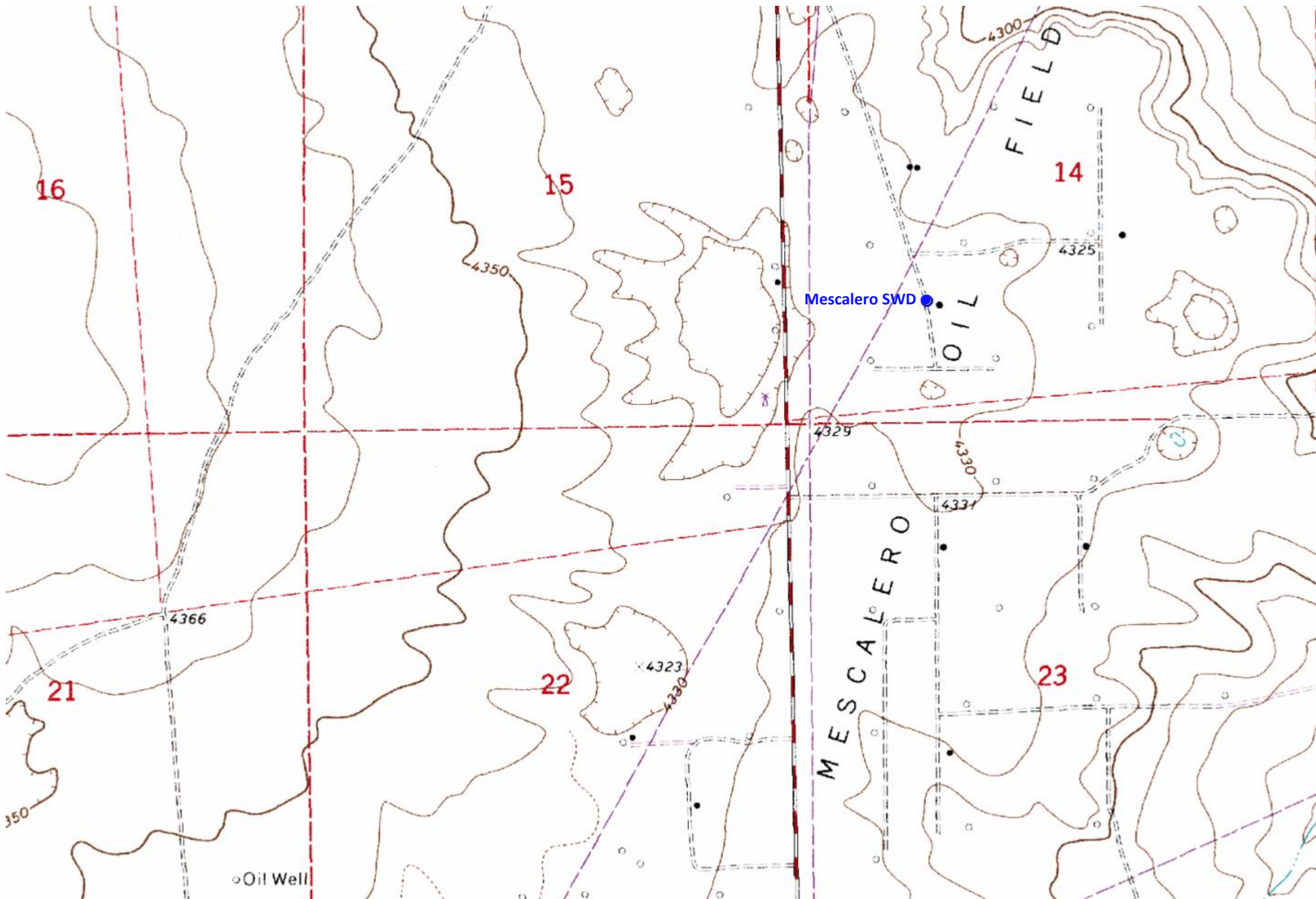
3

4

Mescalero SWD



Oxy Mescalero SWD



Laboratory Analytical Results Summary
OXY, Mescalero SWD

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.437	<0.050	<0.050
Toluene	BTEX 8021B		4.26	0.324	<0.050
Ethylbenzene	BTEX 8021B		11.5	0.74	0.113
Total Xylenes	BTEX 8021B		9.06	0.872	0.159
Chloride	SM4500Cl-B		1200	2200	976
GRO	TPH 8015M		214	<100	<50.0
DRO	TPH 8015M		3240	803	314

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.095	0.095	<0.050
Toluene	BTEX 8021B		1.07	1.13	0.322
Ethylbenzene	BTEX 8021B		3.1	3.53	1.38
Total Xylenes	BTEX 8021B		2.53	2.64	1.3
Chloride	SM4500Cl-B		9100	4400	5680
GRO	TPH 8015M		<100	<100	<50.0
DRO	TPH 8015M		1320	4360	1660

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		6.42	<0.050	<0.050
Toluene	BTEX 8021B		45.9	0.472	0.449
Ethylbenzene	BTEX 8021B		87.3	1.4	1.56
Total Xylenes	BTEX 8021B		55.1	2.61	1.4
Chloride	SM4500Cl-B		10600	5920	5200
GRO	TPH 8015M		1000	205	<100
DRO	TPH 8015M		6620	4690	1900

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		13	2.87	8.85
Toluene	BTEX 8021B		69.2	11	46.6
Ethylbenzene	BTEX 8021B		121	16.6	74
Total Xylenes	BTEX 8021B		86.5	11	44.3
Chloride	SM4500Cl-B		4160	7840	8000
GRO	TPH 8015M		2650	292	1110
DRO	TPH 8015M		25000	6870	8930

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		6.64	<0.050	<0.050
Toluene	BTEX 8021B		43.4	0.251	<0.050
Ethylbenzene	BTEX 8021B		89	1.07	0.052
Total Xylenes	BTEX 8021B		58.4	0.894	<0.150
Chloride	SM4500Cl-B		8600	2280	2800
GRO	TPH 8015M		1830	181	<50.0
DRO	TPH 8015M		13300	8160	184

Laboratory Analytical Results Summary
OXY, Mescalero SWD

		Sample	SB1 @ 5'	SB1 @ 10'	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 57'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		3240	4480	2600	432	608	304	256
GRO	TPH 8015M		<50.0	<10.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		261	36.5	n/a	45.7	n/a	n/a	130

		Sample	SB2 @ 5'	SB2 @ 10'	SB2 @ 20'	SB2 @ 30'	SB2 @ 40'	SB2 @ 50'	SB2 @ 55'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		0.098	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		3120	1070	2240	1660	1170	304	368
GRO	TPH 8015M		<50.0	<50.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		319	276	n/a	<10.0	n/a	n/a	103

		Sample	SB3 @ 5'	SB3 @ 10'	SB3 @ 20'	SB3 @ 30'	SB3 @ 40'	SB3 @ 50'	SB3 @ 57'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		3680	1330	2160	1630	1380	560	80
GRO	TPH 8015M		<10.0	n/a	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		220	n/a	n/a	70.2	n/a	n/a	<10.0

Laboratory Analytical Results Summary
OXY, Mescalero SWD

		Sample	SB4 @ 5'	SB4 @ 10'	SB4 @ 20'	SB4 @ 30'	SB4 @ 40'	SB4 @ 50'	SB4 @ 57'
Analyte	Method	Date	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500Cl-B		6560	784	3680	4160	5200	2320	320
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		137	27.6	n/a	34.6	n/a	n/a	<10.0

June 15, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MESCALERO SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/07/12 16:45.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H201291-01)

BTEx 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.437	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	4.26	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	11.5	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	9.06	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PID) 151 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	06/08/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	214	100	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	3240	100	06/08/2012	ND	184	91.8	200	9.04	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

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 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H201291-02)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	0.324	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	0.740	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	0.872	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	06/08/2012	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	803	100	06/08/2012	ND	184	91.8	200	9.04	

Surrogate: 1-Chlorooctane 76.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H201291-03)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	1.07	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	3.10	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	2.53	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PID) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9100	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	1320	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 99.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 191 % 63.6-154

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Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H201291-04)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	1.13	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	3.53	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	2.64	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	4360	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 216 % 63.6-154

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Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H201291-05)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.42	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	45.9	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	87.3	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	55.1	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1000	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	6620	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 209 % 65.2-140

Surrogate: 1-Chlorooctadecane 269 % 63.6-154

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 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H201291-06)

BTEx 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.472	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.40	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	2.61	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 195 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	205	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	4690	100	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 220 % 63.6-154

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Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H201291-07)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.0	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	69.2	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	121	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	86.5	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2650	200	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	25000	200	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 245 % 65.2-140

Surrogate: 1-Chlorooctadecane 621 % 63.6-154

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 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H201291-08)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.87	0.500	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	11.0	0.500	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	16.6	0.500	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	11.0	1.50	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	292	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	6870	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 300 % 63.6-154

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Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H201291-09)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.64	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	43.4	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	89.0	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	58.4	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1830	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	13300	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 162 % 65.2-140

Surrogate: 1-Chlorooctadecane 384 % 63.6-154

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Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 3' (H201291-10)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.251	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.07	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	0.894	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	181	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	8160	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 150 % 65.2-140

Surrogate: 1-Chlorooctadecane 306 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' (H201291-11)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	<0.050	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	0.113	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	0.159	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	06/11/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	314	50.0	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H201291-12)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.322	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.38	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	1.30	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	06/11/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	1660	50.0	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 90.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 142 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 4' (H201291-13)

BTX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.449	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.56	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	1.40	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 138 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	1900	100	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 152 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/07/2012
Reported: 06/15/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 4' (H201291-14)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.85	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	46.6	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	74.0	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	44.3	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	06/11/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1110	100	06/11/2012	ND	170	85.1	200	9.05		
DRO >C10-C28	8930	100	06/11/2012	ND	168	84.2	200	9.87		

Surrogate: 1-Chlorooctane 215 % 65.2-140

Surrogate: 1-Chlorooctadecane 333 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/07/2012
 Reported: 06/15/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 4' (H201291-15)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	<0.050	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	0.052	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	<0.150	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	06/11/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	184	50.0	06/11/2012	ND	168	84.2	200	9.87	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 151 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST																					
Project Manager: Cliff Brunson		Company:																																	
Address: P.O. Box 805		Attn:																																	
City: Hobbs		Address:		S.M.E.																															
Phone #: 575-397-6388		City:																																	
Fax #: 575-397-0397		State:		Zip:																															
Project #: Mesalero		Project Owner:		C.R.																															
Project Name: Mesalero		State:																																	
Project Location: Mesalero		Phone #:																																	
Sample Name: JEFF OLIVERAS		Fax #:																																	
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH		BTEX		CL-	
H2D1291		SP 1 @ 1'		G		1		✓																		6-1-12		320		✓		✓		✓	
1		SP 2 @ 3'		G		1		✓																		6-1-12		933		✓		✓		✓	
2		SP 2 @ 1'		G		1		✓																		6-1-12		119		✓		✓		✓	
3		SP 3 @ 3'		G		1		✓																		6-1-12		114		✓		✓		✓	
4		SP 3 @ 1'		G		1		✓																		6-1-12		839		✓		✓		✓	
5		SP 4 @ 3'		G		1		✓																		6-1-12		950		✓		✓		✓	
6		SP 4 @ 1'		G		1		✓																		6-1-12		1042		✓		✓		✓	
7		SP 5 @ 3'		G		1		✓																		6-1-12		1130		✓		✓		✓	
8		SP 5 @ 1'		G		1		✓																		6-1-12		1149		✓		✓		✓	
9		SP 5 @ 1'		G		1		✓																		6-1-12		104		✓		✓		✓	
10		SP 5 @ 3'		G		1		✓																		6-1-12		104		✓		✓		✓	
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Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		Cool Intact [X] Yes [] No		CHECKED BY: [Signature]																													

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO												ANALYSIS REQUEST																			
Project Manager: Cliff Brunson		Company:																																	
Address: P.O. Box 805		Attn:																																	
City: Hobbs		State: NM		Zip: 88241																															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: SAME																															
Project #:		Project Owner: DJ		City:																															
Project Name: Mescalero DWP		State:		Zip:																															
Project Location: Mescalero DWP		Phone #:		Fax #:																															
Sampler Name: Jeff Brakes																																			
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		TPH		BTEX		CL-	
H2D1291		11		SP		1		0		4		1		0		4		1		0		4		1		0		4		1		0		4	
12		SP		2		0		4		1		0		4		1		0		4		1		0		4		1		0		4			
13		SP		3		0		4		1		0		4		1		0		4		1		0		4		1		0		4			
14		SP		4		0		4		1		0		4		1		0		4		1		0		4		1		0		4			
15		SP		5		0		4		1		0		4		1		0		4		1		0		4		1		0		4			

July 06, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MESCALERO SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 17:00.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 1 @ 5' (H201483-01)

BTEX 8021B			mg/kg		Analyzed By: ZZZ				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: AM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	261	50.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 73.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 1 @ 10' (H201483-02)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	36.5	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

Sample ID: SB 1 @ 20' (H201483-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/03/2012	ND	416	104	400	0.00	

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Analytical Results For:

BBC International, Inc.
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Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 1 @ 30' (H201483-04)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	07/03/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	45.7	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 83.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.1 % 63.6-154

Sample ID: SB 1 @ 40' (H201483-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	07/03/2012	ND	416	104	400	0.00		

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Analytical Results For:

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P.O. Box 805
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Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 1 @ 50' (H201483-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 1 @ 57' (H201483-07)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	130	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 2 @ 5' (H201483-08)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	0.098	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	319	50.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 85.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 2 @ 10' (H201483-09)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	07/03/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	276	50.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Sample ID: SB 2 @ 20' (H201483-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	07/03/2012	ND	416	104	400	0.00	

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Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 2 @ 30' (H201483-11)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1660	16.0	07/03/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.7 % 63.6-154

Sample ID: SB 2 @ 40' (H201483-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/03/2012	ND	416	104	400	0.00	

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Analytical Results For:

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Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 2 @ 50' (H201483-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 2 @ 55' (H201483-14)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	103	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 87.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 3 @ 5' (H201483-15)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	220	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

Sample ID: SB 3 @ 10' (H201483-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	07/03/2012	ND	416	104	400	0.00	

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Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 3 @ 20' (H201483-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 3 @ 30' (H201483-18)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	70.2	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 73.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 3 @ 40' (H201483-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 3 @ 50' (H201483-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 06/29/2012
 Reported: 07/06/2012
 Project Name: Mescalero SWD
 Project Number: NONE GIVEN
 Project Location: BUTTON MESA ROAD

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 3 @ 57' (H201483-21)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.5 % 63.6-154

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 4 @ 5' (H201483-22)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	137	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 4 @ 10' (H201483-23)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	07/03/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	27.6	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.0 % 63.6-154

Sample ID: SB 4 @ 20' (H201483-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/03/2012	ND	416	104	400	0.00	

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 4 @ 30' (H201483-25)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	07/03/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	34.6	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: SB 4 @ 40' (H201483-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 06/29/2012
Reported: 07/06/2012
Project Name: Mescalero SWD
Project Number: NONE GIVEN
Project Location: BUTTON MESA ROAD

Sampling Date: 06/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 4 @ 50' (H201483-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: SB 4 @ 57' (H201483-28)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/03/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane 89.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

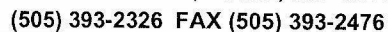
*=Accredited Analyte

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#26

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES

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

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>BTEX</div> <div>TPH</div> </div>											
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: Oxy		City:															
Project Name: Mescalero SWD				State: Zip:															
Project Location: Caprock				Phone #:															
Sampler Name: Jeff Osmelas				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING					
								GROUNDWATER											
								WASTEWATER											
								SOIL											
								OIL											
								SLUDGE											
								OTHER:											
								ACID/BASE:											
								ICE / COOL											
								OTHER:											
												DATE		TIME					
H201483		SB3 @ 57'		G		1								6-27-12 4:30 pm		✓			
22		SB4 @ 5'		G		1								6-28-12 9:38 am		✓			
13		SB4 @ 10'		G		1								6-28-12 9:46 am		✓			
24		SB4 @ 20'		G		1								6-28-12 10:30 am		✓			
25		SB4 @ 30'		G		1								6-28-12 10:38 am		✓			
26		SB4 @ 40'		G		1								6-28-12 10:43 am		✓			
27		SB4 @ 50'		G		1								6-28-12 11:00 am		✓			
28		SB4 @ 57'		G		1								6-28-12 11:15 am		✓			

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Relinquished By: <i>Jeff Osmelas</i>		Date: 6/28/12		Received By: <i>Jodi Henson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 5:00pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>[Signature]</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Saturday, April 26, 2014 4:00 PM
To: Geoffrey Leking
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Mescalero SWD-Remediation Plan
Attachments: Remediation Packet 2- Mescalero SWD.pdf

Geoff,

This e-mail is to confirm our conversation on April 25, 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 5 feet in the entire leak area that is depicted on the attached site diagram and an additional 5 feet (10 feet total) in the area of SP2. A compacted clay liner will then be installed across the entire excavation area and 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
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E-Mail: cbrunson@bbcinternational.com

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