

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	NAB1722627793
District RP	
Facility ID	
Application ID	


## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** Each of the following items must be included in the closure report.

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 2-4-22  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: OCD Date: 2/04/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 9/15/2022  
Printed Name: Ashley Maxwell Title: Environmental Specialist

# Closure Report

## Site Description

Site Name:	Oxy USA
Company:	Simpson CDM Com #1H CTB
Legal Description:	U/L A, Section 29, T21S, R27E
County:	Eddy County, NM
GPS Coordinates:	N 32.45685 W-104.20409

## Release Data

Date of Release:	07/21/2017
Type of Release:	Oil
Source of Release:	Fire tube gasket failure
Volume of Release:	12 bbls
Volume Recovered:	10 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the areas of SP1 and SP2 to a depth of 3 feet. Excavate the area of SP3 to a depth of 1.5 feet. Excavate the areas of SP4 to a depth of 2.5 feet. Backfill the site with clean soil.	
Remediation Activities:	05/08/2018 to 05/17/2018	
Plan Sent to OCD:	01/22/2018	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	03/05/2018	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 08/08/2017
Final C-141	Upon completion
Site Diagram	August 2017
Groundwater Plot	<50'
TOPO Maps	August 2017
Lab Summary	08/24/2017
Lab Analysis	08/24/2017
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan, Oxy requests closure approval from NMOCD.

Wade Dittrich, Environmental Specialist, Oxy USA

05/21/2018

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

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

NM OIL CONSERVATION  
ARTESIA DISTRICT

AUG 08 2017

Form C-141  
Revised April 3, 2017

RECEIVED Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

NAB 1722627793 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	OXY USA WTP LP 142463	Contact	WADE DITTRICH
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-390-2828
Facility Name	SIMPSON CDM IH CTB	Facility Type	BATTERY
Surface Owner	FEE	Mineral Owner	FEE
		API No.	30-015-42012

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	29	21S	27E	480	NORTH	310	EAST	EDDY

Latitude\_ 32.452408 \_ Longitude\_ -104.206689 \_ NAD83

### NATURE OF RELEASE

Type of Release	OIL	Volume of Release	12 bbls OIL	Volume Recovered	10 bbls
Source of Release	Fire tube gasket failure	Date and Hour of Occurrence	7-21-2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	CRYSTAL WEAVER-NMOCD; MIKE BRATCHER-NMOCD; AMBER GROVES-SLO		
By Whom?	WADE DITTRICH	Date and Hour	07/28/2017 @ 5:22PM	*e-mail: 7/24/17@ 7:18am	
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.\*

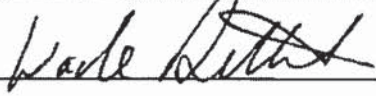

Describe Cause of Problem and Remedial Action Taken.\*

Spill caused by a fire tube gasket failure. The fire tube gasket has been repaired and is back in service.

Describe Area Affected and Cleanup Action Taken.\*

The affected area of the spill is 60x30 FT, leak has gone off location (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and the SLO.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: WADE DITTRICH	Signed By  Approved by Environmental Specialist:	
Title: ENVIROMENTAL COORDINATOR	Approval Date: 8/10/17	Expiration Date: N/A
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: See Attached	Attached: ARP-4333
Date: Phone: 575-390-2828		

\* Attach Additional Sheets If Necessary



Operator/Responsible Party,

The OCD has received the form C-141 you provided on 8/8/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4333 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 9/8/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted



for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

**Bratcher, Mike, EMNRD**

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**From:** Wade\_Dittrich@oxy.com  
**Sent:** Tuesday, August 8, 2017 7:32 AM  
**To:** Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD  
**Cc:** agroves@slo.state.nm.us; cbrunson@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com; kswinney@bbcinternational.com; Jennifer\_Smith@oxy.com  
**Subject:** Simpson CDM 1H CTB  
**Attachments:** Simpson CDM 1H CTB-Initial C-141.pdf

All,

Attached is the **Initial C-141**. Please review and let me know if you have any questions. Thank you.

Wade Dittrich  
**Environmental Coordinator**  
**Oxy Permian-New Mexico**  
575.390.2828 cell  
Wade\_Dittrich@Oxy.com

**Bratcher, Mike, EMNRD**

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**From:** Wade\_Dittrich@oxy.com  
**Sent:** Monday, July 24, 2017 7:26 AM  
**To:** Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD  
**Cc:** agroves@slo.state.nm.us; cbrunson@bbcinternational.com;  
kathy@bbcinternational.com; kswinney@bbcinternational.com;  
jgilkey@bbcinternational.com  
**Subject:** RE: Simpson CDM 1H CTB

All, this is the report with the corrected **API** number.

Wade Dittrich

**Environmental Coordinator**

**Oxy Permian-New Mexico**

575.390.2828 cell

Wade\_Dittrich@Oxy.com

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**From:** Dittrich, John W (Ervin Well Site Consultants)  
**Sent:** Monday, July 24, 2017 7:18 AM ✱  
**To:** 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Cc:** 'agroves@slo.state.nm.us' <agroves@slo.state.nm.us>; 'cbrunson@bbcinternational.com' <cbrunson@bbcinternational.com>; 'kathy@bbcinternational.com' <kathy@bbcinternational.com>; 'kswinney@bbcinternational.com' <kswinney@bbcinternational.com>; 'jgilkey@bbcinternational.com' <jgilkey@bbcinternational.com>  
**Subject:** Simpson CDM 1H CTB

All,  
This is to inform you that Oxy Permian had a **Reportable** release in Eddy County at the **Simpson CDM 1H CTB** on 7/21/2017.

- **Release Location:** Legal A-29-21S-27E, API: 30-015-42012
- **Release Volume:** 12 bbls of Oil and 0 bbls of Produced Water.
- **Recovered:** 10 bbls recovered
- **Cause of Release:** Fire tube gasket failure
- **Approximate Area impacted by release:** 60x30 FT, Leak has gone off location (measurements are subject to change with GPS tracking)
- **GPS Coordinates and Driving Direction:** 32.452408 , -104.206689 FROM CARLSBAD GO EAST ON HOBBS HWY 4 MILES, BO NORTH ON TRUCK BYPASS FOR 1.5 MILE, TAKE LEFT AT FIRST CATTLEGUARD TO 1ST INTERSECTION, TURN WEST GO .5 MILE TO BATTERY ON LEFT

Please let me know if you have any questions.



# Oxy, Simpson CDM 1H CTB

Leak date: 07/21/2017  
Eddy County, NM  
AP# 30-015-42012  
2RP-4333

## Legend

- 1.5 ft Excavation
- 2.5 ft Excavation
- 3 ft Excavation
- Cardinal sample points
- Sample points
- LEAK AREA

NORTH

EAST

WEST

SOUTH

SP1

SP3

SP2

SP4



80 ft

Google Earth

© 2017 Google



Oxy, Simpson CDM 1H CTB

Sample points, hand auger

SP1, N 32.45690 W-104.20410

SP2, N 32.45681 W-104.20403

SP3, N 32.45681 W-104.20425

SP4, N 32.45670 W-104.20424

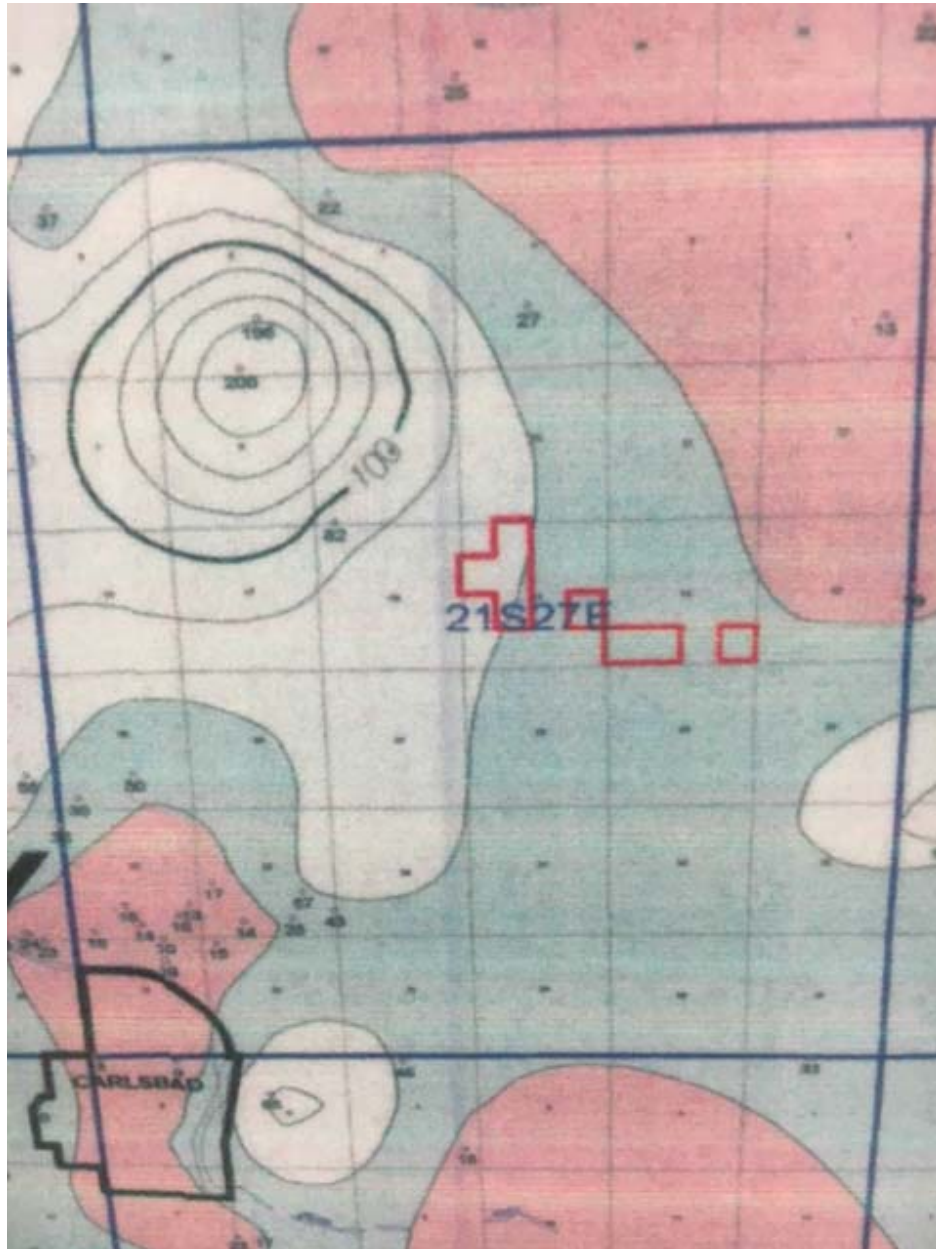
NORTH, N 32.45699 W-104.20410

SOUTH, N 32.45662 W-104.20416

EAST, N 32.45682 W-104.20399

WEST, N 32.45682 W-104.20435

**Oxy, Simpson CDM Com #1H CTB**  
**U/L A, Section 29, T21S T27E**  
**Groundwater: <50'**







# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD															
		Sub-	Q Q Q											Water			
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
<a href="#">C 01875</a>		C	ED	4	1	1	28	21S	27E	575157	3591204*	<input type="checkbox"/>	509	170		40	130
<a href="#">C 01449</a>		C	ED	1	3	3	21	21S	27E	574950	3591807*	<input type="checkbox"/>	587	108		75	33
<a href="#">C 00096</a>		CUB	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	91			
<a href="#">C 00779</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	247		18	229
<a href="#">C 00781</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	302		29	273
<a href="#">C 00888</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	270		12	258
<a href="#">C 01709</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	42		15	27
<a href="#">C 00925</a>		C	ED		1	3	28	21S	27E	575070	3590498*	<input type="checkbox"/>	900	300		46	254
<a href="#">C 01653</a>		C	ED		4	1	29	21S	27E	573856	3590882*	<input type="checkbox"/>	901	60		20	40
<a href="#">C 00688</a>		C	ED	2	2	3	29	21S	27E	573959	3590579*	<input type="checkbox"/>	1001	90		31	59
<a href="#">C 01087</a>		C	ED			1	29	21S	27E	573654	3591077*	<input type="checkbox"/>	1026	310		16	294
<a href="#">C 00652</a>			ED	2	4	4	29	21S	27E	574771	3590188*	<input type="checkbox"/>	1115	458			
<a href="#">C 02645</a>		C	ED	2	4	4	29	21S	27E	574771	3590188*	<input type="checkbox"/>	1115	195		45	150
<a href="#">C 02837</a>		C	ED	2	4	4	29	21S	27E	574771	3590188*	<input type="checkbox"/>	1115	179		155	24
<a href="#">C 03614 POD1</a>		CUB	ED	1	2	3	29	21S	27E	573836	3590510	<input type="checkbox"/>	1136	228		30	198
<a href="#">C 01321</a>		C	LE		2	3	29	21S	27E	573860	3590480*	<input type="checkbox"/>	1141	270		60	210
<a href="#">C 01755</a>		C	ED		2	3	29	21S	27E	573860	3590480*	<input type="checkbox"/>	1141	320		17	303
<a href="#">C 02045</a>		C	ED		2	3	29	21S	27E	573860	3590480*	<input type="checkbox"/>	1141	80		29	51
<a href="#">C 00552</a>		C	ED	1	2	3	29	21S	27E	573759	3590579	<input type="checkbox"/>	1149	240		24	216
<a href="#">C 00673</a>		C	ED	2	3	4	29	21S	27E	574367	3590182*	<input type="checkbox"/>	1152	309		30	279
<a href="#">C 01644</a>		C	ED		1	1	29	21S	27E	573450	3591278*	<input type="checkbox"/>	1206	66		35	31
<a href="#">C 01650</a>		C	ED		4	4	29	21S	27E	574672	3590089*	<input type="checkbox"/>	1209	45			
<a href="#">C 00222</a>			ED	1	3	4	29	21S	27E	574167	3590182*	<input type="checkbox"/>	1218	297			
<a href="#">C 00767</a>			ED	1	3	4	29	21S	27E	574167	3590182*	<input type="checkbox"/>	1218	150		26	124
<a href="#">C 00725</a>		C	ED	4	3	1	29	21S	27E	573552	3590775*	<input type="checkbox"/>	1221	222		22	200
<a href="#">C 03903 POD1</a>		CUB	ED	4	3	1	29	21S	27E	573540	3590712	<input type="checkbox"/>	1260	165			
<a href="#">C 01047</a>			ED		3	1	29	21S	27E	573453	3590876*	<input type="checkbox"/>	1274	288		256	32
<a href="#">C 01662</a>		C	ED		3	1	29	21S	27E	573453	3590876*	<input type="checkbox"/>	1274	40			
<a href="#">C 00188</a>		C	ED		3	3	28	21S	27E	575076	3590094*	<input type="checkbox"/>	1275	280			
<a href="#">C 01947</a>		C	ED		3	4	29	21S	27E	574268	3590083*	<input type="checkbox"/>	1275	43		18	25

<a href="#">C 01553</a>	C	ED	3	1	1	29	21S	27E	573349	3591177*	<input type="checkbox"/>	1312	84		
<a href="#">C 01649</a>	C	ED	3	1	1	29	21S	27E	573349	3591177*	<input type="checkbox"/>	1312	88	25	63
<a href="#">C 02170</a>	C	ED	1	4	3	28	21S	27E	575375	3590196*	<input type="checkbox"/>	1315	253	60	193
<a href="#">C 00943</a>	C	ED	2	4	3	29	21S	27E	573963	3590177*	<input type="checkbox"/>	1317	280	27	253
<a href="#">C 01174</a>	C	ED	1	3	1	29	21S	27E	573352	3590975*	<input type="checkbox"/>	1343	280	27	253
<a href="#">C 01299</a>	C	ED	1	3	1	29	21S	27E	573352	3590975*	<input type="checkbox"/>	1343	284	23	261
<a href="#">C 03171</a>	C	ED	3	2	3	29	21S	27E	573705	3590267	<input type="checkbox"/>	1402	100	31	69
<a href="#">C 00741</a>	C	ED	3	3	1	29	21S	27E	573352	3590775*	<input type="checkbox"/>	1404			
<a href="#">C 01069</a>	C	ED	3	3	1	29	21S	27E	573352	3590775*	<input type="checkbox"/>	1404	355	20	335
<a href="#">C 01248</a>	C	ED	3	3	1	29	21S	27E	573352	3590775*	<input type="checkbox"/>	1404	240	19	221
<a href="#">C 00634</a>	C	ED	4	1	3	29	21S	27E	573555	3590373*	<input type="checkbox"/>	1437	122	17	105
<a href="#">C 01155</a>	C	ED		1	3	29	21S	27E	573456	3590474*	<input type="checkbox"/>	1455	290	22	268
<a href="#">C 00606</a>	C	ED	1	1	3	29	21S	27E	573355	3590573*	<input type="checkbox"/>	1489	252	8	244
<a href="#">C 00749</a>	C	ED	4	4	3	29	21S	27E	573963	3589977*	<input type="checkbox"/>	1491			
<a href="#">C 00566</a>	C	ED	2	2	2	32	21S	27E	574773	3589785*	<input type="checkbox"/>	1517	323	18	305
<a href="#">C 00632</a>	C	ED	2	2	2	32	21S	27E	574773	3589785*	<input type="checkbox"/>	1517	270	30	240
<a href="#">C 00665</a>	CUB	ED	2	4	2	30	21S	27E	573150	3590961*	<input type="checkbox"/>	1543	40		
<a href="#">C 00668</a>	C	ED	2	4	2	30	21S	27E	573150	3590961*	<input type="checkbox"/>	1543	280	12	268
<a href="#">C 01165</a>		ED	2	4	2	30	21S	27E	573150	3590961*	<input type="checkbox"/>	1543	180	26	154
<a href="#">C 00660</a>	C	ED	2	1	2	32	21S	27E	574368	3589780*	<input type="checkbox"/>	1545	325	14	311
<a href="#">C 00337</a>	C	ED	1	1	2	32	21S	27E	574168	3589780*	<input type="checkbox"/>	1594	318	40	278
<a href="#">C 01038</a>	C	ED	3	4	3	29	21S	27E	573763	3589977*	<input type="checkbox"/>	1594	293	14	279
<a href="#">C 01096</a>	C	ED	3	4	3	29	21S	27E	573763	3589977*	<input type="checkbox"/>	1594	306	17	289
<a href="#">C 01101</a>	C	ED	3	4	3	29	21S	27E	573763	3589977*	<input type="checkbox"/>	1594	315	17	298
<a href="#">C 01068</a>	C	ED	3	1	3	29	21S	27E	573355	3590373*	<input type="checkbox"/>	1596	350	20	330
<a href="#">C 02530</a>	C	ED	3	1	3	29	21S	27E	573355	3590373*	<input type="checkbox"/>	1596	30	17	13
<a href="#">C 01175</a>		ED	4	4	2	30	21S	27E	573150	3590761*	<input type="checkbox"/>	1598	100	19	81
<a href="#">C 03484 POD1</a>	C	ED	2	4	4	19	21S	27E	573071	3591694	<input type="checkbox"/>	1633	95	42	53
<a href="#">C 01157</a>	C	ED		4	2	30	21S	27E	573051	3590862*	<input type="checkbox"/>	1663	292	17	275
<a href="#">C 02217</a>	CUB	ED		4	2	30	21S	27E	573051	3590862*	<input type="checkbox"/>	1663	270	17	253

Average Depth to Water: **33 feet**Minimum Depth: **8 feet**Maximum Depth: **256 feet**

Record Count: 60

**UTMNAD83 Radius Search (in meters):****Easting (X):** 574656**Northing (Y):** 3591298**Radius:** 1700

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/27/17 10:45 AM

WATER COLUMN/ AVERAGE DEPTH TO



WATER

### Public Land Survey System (PLSS)

☐ Q64:  Q16:  Q4:  Sec:  Tws:  Rng:

### State Plane Coordinate System - NAD27

☐ X:  ft Y:  ft Zone:

### State Plane Coordinate System - NAD83

☐ X:  ft Y:  ft Zone:

### Degrees/Minutes/Seconds

☐ Longitude (X): Degrees:  ° Minutes:  ' Seconds:  "

Latitude (Y): Degrees:  ° Minutes:  ' Seconds:  "

### UTM - NAD27

☐ Easting (X):  mtrs Northing (Y):  mtrs Zone:

**SUBMIT**

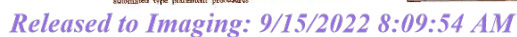
All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X):  mtrs Northing (Y):  mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



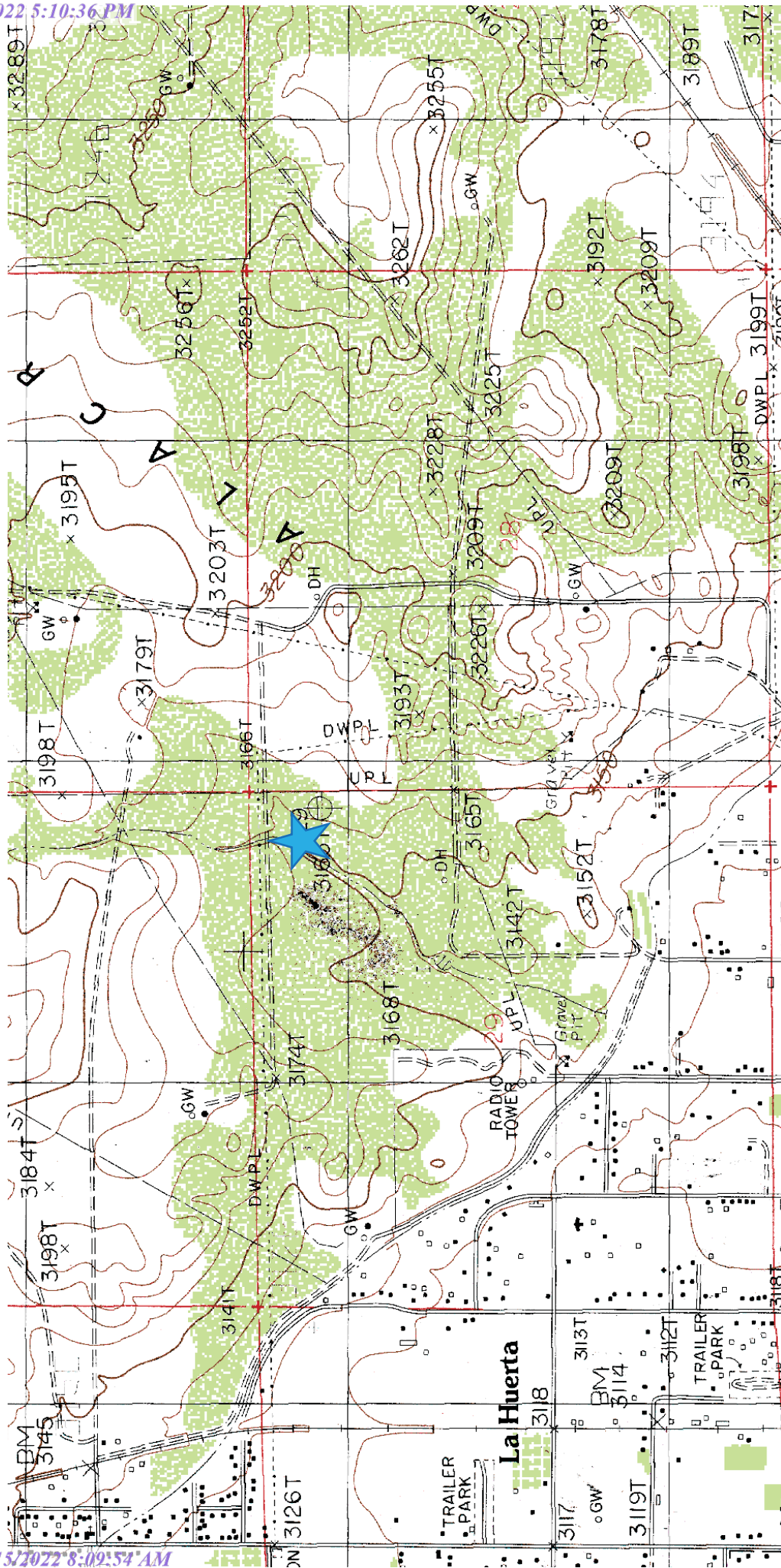
## Simpson CDM 1H CTB





# Oxy

## Simpson CDM Com #1H CTB





Laboratory Analytical Results Summary  
Simpson CDM 1H CTB

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 10'	SP1 @ 15'
			8/24/17	8/24/17	8/24/17	8/24/17	8/24/17	8/24/17	8/24/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	<0.300
Chloride	SM4500Cl-B		1460	1360	2080	352	80	96	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		73.9	<10.0	<10.0	<10.0	n/a	n/a	<10.0
EXT DRO	TPH 8015M		13.7	<10.0	<10.0	<10.0	n/a	n/a	<10.0

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 9'	SP2 @ 14'
			8/24/17	8/24/17	8/24/17	8/24/17	8/24/17	8/24/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		1470	1840	1310	288	128	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		30.6	<10.0	<10.0	<10.0	n/a	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 9'	SP3 @ 14'
			8/24/17	8/24/17	8/24/17	8/24/17	8/24/17	8/24/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		1.44	<0.050	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		2.67	<0.050	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		18.1	<0.150	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		22.2	<0.300	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		64	96	384	128	128	160
GRO	TPH 8015M		513	<10.0	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		2890	29.7	<10.0	<10.0	n/a	<10.0
EXT DRO	TPH 8015M		370	39.5	13.1	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 9'	SP4 @ 14'
			8/24/17	8/24/17	8/24/17	8/24/17	8/24/17	8/24/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		2.44	0.373	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		3.93	<0.050	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		39.9	5.95	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		46.3	6.32	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		1380	688	144	96	96	64
GRO	TPH 8015M		765	111	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		4090	1100	14.1	<10.0	n/a	<10.0
EXT DRO	TPH 8015M		541	200	29.6	<10.0	n/a	<10.0

Analyte	Method	Sample Date	NORTH @ SURFACE
			8/24/17
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		176
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Analyte	Method	Sample Date	EAST @ SURFACE
			8/24/17
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		144
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Analyte	Method	Sample Date	WEST @ SURFACE
			8/24/17
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		160
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Analyte	Method	Sample Date	SOUTH @ SURFACE
			8/24/17
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		160
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0



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September 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SIMPSON CDM 1H CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/25/17 16:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H702264-01)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736	
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124	
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943	
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07	
Total BTX	<0.300	0.300	08/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	08/29/2017	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	<10.0	10.0	08/28/2017	ND	206	103	200	3.80	
DRO >C10-C28	73.9	10.0	08/28/2017	ND	206	103	200	2.85	
EXT DRO >C28-C36	13.7	10.0	08/28/2017	ND					

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 118 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H702264-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736	
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124	
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943	
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07	
Total BTX	<0.300	0.300	08/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	08/29/2017	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	<10.0	10.0	08/28/2017	ND	206	103	200	3.80	
DRO >C10-C28	<10.0	10.0	08/28/2017	ND	206	103	200	2.85	
EXT DRO >C28-C36	<10.0	10.0	08/28/2017	ND					

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 114 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 3' (H702264-03)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736		
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124		
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943		
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07		
Total BTX	<0.300	0.300	08/29/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	08/29/2017	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	<10.0	10.0	08/28/2017	ND	206	103	200	3.80	
DRO >C10-C28	<10.0	10.0	08/28/2017	ND	206	103	200	2.85	
EXT DRO >C28-C36	<10.0	10.0	08/28/2017	ND					

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 4' (H702264-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736	
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124	
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943	
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07	
Total BTX	<0.300	0.300	08/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 81.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 5' (H702264-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/29/2017	ND	432	108	400	0.00		

**Sample ID: SP 1 @ 10' (H702264-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/29/2017	ND	432	108	400	0.00		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 15' (H702264-07)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736	
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124	
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943	
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07	
Total BTX	<0.300	0.300	08/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 89.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.9 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 1' (H702264-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736		
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124		
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943		
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07		
Total BTEx	<0.300	0.300	08/29/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	30.6	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 89.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.0 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H702264-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736		
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124		
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943		
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07		
Total BTEx	<0.300	0.300	08/29/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	08/29/2017	ND	432	108	400	0.00	QM-07	

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	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 83.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 3' (H702264-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736	
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124	
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943	
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07	
Total BTX	<0.300	0.300	08/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 85.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.0 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 4' (H702264-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736	
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124	
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943	
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07	
Total BTX	<0.300	0.300	08/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 85.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.5 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 9' (H702264-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/29/2017	ND	432	108	400	0.00	

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**Analytical Results For:**

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 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 14' (H702264-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2017	ND	2.10	105	2.00	0.736	
Toluene*	<0.050	0.050	08/29/2017	ND	2.01	101	2.00	0.124	
Ethylbenzene*	<0.050	0.050	08/29/2017	ND	2.12	106	2.00	0.943	
Total Xylenes*	<0.150	0.150	08/29/2017	ND	6.46	108	6.00	1.07	
Total BTX	<0.300	0.300	08/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 80.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.0 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 1' (H702264-14)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2017	ND	1.90	95.2	2.00	3.51	
Toluene*	1.44	0.050	08/30/2017	ND	1.83	91.7	2.00	2.30	
Ethylbenzene*	2.67	0.050	08/30/2017	ND	1.93	96.6	2.00	2.90	
Total Xylenes*	18.1	0.150	08/30/2017	ND	5.86	97.7	6.00	2.98	
Total BTEX	22.2	0.300	08/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 199 % 72-148

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/29/2017	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	513	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	2890	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	370	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 127 % 28.3-164

Surrogate: 1-Chlorooctadecane 127 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' (H702264-15)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2017	ND	1.90	95.2	2.00	3.51		
Toluene*	<0.050	0.050	08/30/2017	ND	1.83	91.7	2.00	2.30		
Ethylbenzene*	<0.050	0.050	08/30/2017	ND	1.93	96.6	2.00	2.90		
Total Xylenes*	<0.150	0.150	08/30/2017	ND	5.86	97.7	6.00	2.98		
Total BTEx	<0.300	0.300	08/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	29.7	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	39.5	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 88.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 100 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 3' (H702264-16)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2017	ND	1.90	95.2	2.00	3.51		
Toluene*	<0.050	0.050	08/30/2017	ND	1.83	91.7	2.00	2.30		
Ethylbenzene*	<0.050	0.050	08/30/2017	ND	1.93	96.6	2.00	2.90		
Total Xylenes*	<0.150	0.150	08/30/2017	ND	5.86	97.7	6.00	2.98		
Total BTEx	<0.300	0.300	08/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	13.1	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 89.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.3 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 4' (H702264-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2017	ND	1.90	95.2	2.00	3.51		
Toluene*	<0.050	0.050	08/30/2017	ND	1.83	91.7	2.00	2.30		
Ethylbenzene*	<0.050	0.050	08/30/2017	ND	1.93	96.6	2.00	2.90		
Total Xylenes*	<0.150	0.150	08/30/2017	ND	5.86	97.7	6.00	2.98		
Total BTEx	<0.300	0.300	08/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 88.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.9 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 9' (H702264-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/29/2017	ND	432	108	400	0.00	

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**Analytical Results For:**

BBC International, Inc.  
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 Fax To: (575) 397-0397

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 14' (H702264-19)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2017	ND	1.90	95.2	2.00	3.51		
Toluene*	<0.050	0.050	08/30/2017	ND	1.83	91.7	2.00	2.30		
Ethylbenzene*	<0.050	0.050	08/30/2017	ND	1.93	96.6	2.00	2.90		
Total Xylenes*	<0.150	0.150	08/30/2017	ND	5.86	97.7	6.00	2.98		
Total BTEx	<0.300	0.300	08/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 83.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 1' (H702264-20)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/30/2017	ND	1.90	95.2	2.00	3.51	
<b>Toluene*</b>	<b>2.44</b>	1.00	08/30/2017	ND	1.83	91.7	2.00	2.30	
<b>Ethylbenzene*</b>	<b>3.93</b>	1.00	08/30/2017	ND	1.93	96.6	2.00	2.90	
<b>Total Xylenes*</b>	<b>39.9</b>	3.00	08/30/2017	ND	5.86	97.7	6.00	2.98	
<b>Total BTX</b>	<b>46.3</b>	6.00	08/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1380</b>	16.0	08/29/2017	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
<b>GRO C6-C10</b>	<b>765</b>	10.0	08/29/2017	ND	180	89.8	200	0.610	
<b>DRO &gt;C10-C28</b>	<b>4090</b>	10.0	08/29/2017	ND	191	95.4	200	0.828	
<b>EXT DRO &gt;C28-C36</b>	<b>541</b>	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 152 % 28.3-164

Surrogate: 1-Chlorooctadecane 153 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 2' (H702264-21)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2017	ND	1.90	95.2	2.00	3.51	
<b>Toluene*</b>	<b>0.373</b>	0.050	08/30/2017	ND	1.83	91.7	2.00	2.30	
Ethylbenzene*	<0.050	0.050	08/30/2017	ND	1.93	96.6	2.00	2.90	
<b>Total Xylenes*</b>	<b>5.95</b>	0.150	08/30/2017	ND	5.86	97.7	6.00	2.98	
<b>Total BTX</b>	<b>6.32</b>	0.300	08/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 72-148

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>688</b>	16.0	08/29/2017	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
<b>GRO C6-C10</b>	<b>111</b>	10.0	08/29/2017	ND	180	89.8	200	0.610	
<b>DRO &gt;C10-C28</b>	<b>1100</b>	10.0	08/29/2017	ND	191	95.4	200	0.828	
<b>EXT DRO &gt;C28-C36</b>	<b>200</b>	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 106 % 28.3-164

Surrogate: 1-Chlorooctadecane 112 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 3' (H702264-22)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2017	ND	1.90	95.2	2.00	3.51		
Toluene*	<0.050	0.050	08/30/2017	ND	1.83	91.7	2.00	2.30		
Ethylbenzene*	<0.050	0.050	08/30/2017	ND	1.93	96.6	2.00	2.90		
Total Xylenes*	<0.150	0.150	08/30/2017	ND	5.86	97.7	6.00	2.98		
Total BTEx	<0.300	0.300	08/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	14.1	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	29.6	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 4' (H702264-23)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2017	ND	1.70	85.1	2.00	5.19		
Toluene*	<0.050	0.050	08/31/2017	ND	1.65	82.7	2.00	4.53		
Ethylbenzene*	<0.050	0.050	08/31/2017	ND	1.74	86.8	2.00	3.56		
Total Xylenes*	<0.150	0.150	08/31/2017	ND	5.39	89.8	6.00	3.91		
Total BTX	<0.300	0.300	08/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 86.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.1 % 34.7-157

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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 9' (H702264-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/29/2017	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 14' (H702264-25)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2017	ND	1.70	85.1	2.00	5.19		
Toluene*	<0.050	0.050	08/31/2017	ND	1.65	82.7	2.00	4.53		
Ethylbenzene*	<0.050	0.050	08/31/2017	ND	1.74	86.8	2.00	3.56		
Total Xylenes*	<0.150	0.150	08/31/2017	ND	5.39	89.8	6.00	3.91		
Total BTX	<0.300	0.300	08/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 94.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NORTH @ SURFACE (H702264-26)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2017	ND	1.70	85.1	2.00	5.19		
Toluene*	<0.050	0.050	08/31/2017	ND	1.65	82.7	2.00	4.53		
Ethylbenzene*	<0.050	0.050	08/31/2017	ND	1.74	86.8	2.00	3.56		
Total Xylenes*	<0.150	0.150	08/31/2017	ND	5.39	89.8	6.00	3.91		
Total BTEx	<0.300	0.300	08/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 93.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EAST @ SURFACE (H702264-27)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2017	ND	1.70	85.1	2.00	5.19		
Toluene*	<0.050	0.050	08/31/2017	ND	1.65	82.7	2.00	4.53		
Ethylbenzene*	<0.050	0.050	08/31/2017	ND	1.74	86.8	2.00	3.56		
Total Xylenes*	<0.150	0.150	08/31/2017	ND	5.39	89.8	6.00	3.91		
Total BTX	<0.300	0.300	08/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 79.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.2 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WEST @ SURFACE (H702264-28)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2017	ND	1.70	85.1	2.00	5.19		
Toluene*	<0.050	0.050	08/31/2017	ND	1.65	82.7	2.00	4.53		
Ethylbenzene*	<0.050	0.050	08/31/2017	ND	1.74	86.8	2.00	3.56		
Total Xylenes*	<0.150	0.150	08/31/2017	ND	5.39	89.8	6.00	3.91		
Total BTEx	<0.300	0.300	08/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/29/2017	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	<10.0	10.0	08/29/2017	ND	180	89.8	200	0.610	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	191	95.4	200	0.828	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 91.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/25/2017  
 Reported: 09/01/2017  
 Project Name: SIMPSON CDM 1H CTB  
 Project Number: 7/21/17 LEAK  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/24/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SOUTH @ SURFACE (H702264-29)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2017	ND	1.70	85.1	2.00	5.19		
Toluene*	<0.050	0.050	08/31/2017	ND	1.65	82.7	2.00	4.53		
Ethylbenzene*	<0.050	0.050	08/31/2017	ND	1.74	86.8	2.00	3.56		
Total Xylenes*	<0.150	0.150	08/31/2017	ND	5.39	89.8	6.00	3.91		
Total BTX	<0.300	0.300	08/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/29/2017	ND	416	104	400	3.77		

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	08/29/2017	ND	198	99.0	200	4.24	
DRO >C10-C28	<10.0	10.0	08/29/2017	ND	192	96.0	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	08/29/2017	ND					

Surrogate: 1-Chlorooctane 98.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.3 % 34.7-157

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Corrected  $+25^{\circ}\text{C}$





## ORDINAL 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. #:		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company: Oxy			
Address: P.O. Box 805		Attn: Wade Hirsch			
City: Hobbs		Address:			
State: NM		City:			
Zip: 88241		State:			
Phone #: 575-397-6388		Fax #: 575-397-0397			
Project #:		Project Owner: Oxy			
Project Name: Simpson CDM 1H CTB		State:			
Project Location: Eddy County, NM		Zip:			
Phone #:		Fax #:			
Sampler Name: Jeff Ornelas		Matrix:			
FOR LAB USE ONLY		PRESERV			
Lab I.D.		DATE			
Sample I.D.		TIME			
11		8/24/17			
12		8/24/17			
13		8/24/17			
14		8/24/17			
15		8/24/17			
16		8/24/17			
17		8/24/17			
18		8/24/17			
19		8/24/17			
20		8/24/17			
SP2 @ 4'		11:15 AM			
SP2 @ 9'		11:27 AM			
SP2 @ 14'		11:40 AM			
SP3 @ 1'		12:59 PM			
SP3 @ 2'		1:11 PM			
SP3 @ 3'		1:19 PM			
SP3 @ 4'		1:28 PM			
SP3 @ 9'		1:40 PM			
SP3 @ 14'		2:01 PM			
SP4 @ 1'		2:10 PM			
(G)RAB OR (C)OMP.					
# CONTAINERS					
GROUNDWATER					
WASTEWATER					
SOIL					
OIL					
SLUDGE					
OTHER :					
ACID/BASE:					
ICE / COOL					
OTHER :					
DATE		TIME			
8/24/17		11:15 AM			
8/24/17		11:27 AM			
8/24/17		11:40 AM			
8/24/17		12:59 PM			
8/24/17		1:11 PM			
8/24/17		1:19 PM			
8/24/17		1:28 PM			
8/24/17		1:40 PM			
8/24/17		2:01 PM			
8/24/17		2:10 PM			
REMARKS:					
Relinquished By: Jeff Ornelas					
Relinquished By: Jeff Ornelas					
Date: 8/24/17					
Time: 3:30 PM					
Received By: Wade Hirsch					
Date: 8/25/17					
Time: 4:52 PM					
Received By: Wade Hirsch					
Date: 8/25/17					
Time: 4:52 PM					
Delivered By: (Circle One) 9:05:4 / 8:8:4					
Sampler - UPS - Bus - Other:					





## ORDINAL 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:		Jey																			
Address: P.O. Box 805		Attn: Wade Strick																					
City: Hobbs		Address:																					
State: NM Zip: 88241																							
Phone #: 575-397-6388		City:																					
Fax #: 575-397-0397		State:																					
Project #: Project Owner: Oxy		Zip:																					
Project Name: Simpson CDM 1H CTB		Phone #:																					
Project Location: Eddy County, NM		Fax #:																					
Sample Name: Jeff Ornelas		PRESERV		SAMPLING																			
FOR LAB USE ONLY		MATRIX																					
Lab I.D.		Sample I.D.																					
H76824		(G)RAB OR (C)OMP.																					
31		# CONTAINERS																					
38		GROUNDWATER																					
33		WASTEWATER																					
34		SOIL																					
35		OIL																					
32		SLUDGE																					
37		OTHER :																					
36		ACID/BASE:																					
39		ICE / COOL																					
34		OTHER :																					
31		DATE		TIME																			
38		8/24/17		2:15 PM										✓									
33		8/24/17		2:22 PM										✓									
34		8/24/17		2:25 PM										✓									
35		8/24/17		2:39 PM										✓									
32		8/24/17		2:53 PM										✓									
37		8/24/17		3:13 PM										✓									
36		8/24/17		3:16 PM										✓									
39		8/24/17		3:19 PM										✓									
34		8/24/17		3:22 PM										✓									
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32		8/24/17		3:22 PM										✓									
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31		8/24/17		3:22 PM										✓									
38		8/24/17		3:22 PM										✓									
33		8/24/17		3:22 PM										✓									
34		8/24/17		3:22 PM										✓									
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32		8/24/17		3:22 PM										✓									
37		8/24/17		3:22 PM										✓									
36		8/24/17		3:22 PM										✓									
39		8/24/17		3:22 PM										✓									
34		8/24/17		3:22 PM										✓									
31		8/24/17		3:22 PM										✓									
38		8/24/17		3:22 PM										✓									
33		8/24/17		3:22 PM										✓									
34		8/24/17		3:22 PM										✓									
35		8/24/17		3:22 PM										✓									
32		8/24/17		3:22 PM										✓									
37		8/24/17		3:22 PM										✓									
36		8/24/17		3:22 PM										✓									
39		8/24/17		3:22 PM										✓									
34		8/24/17		3:22 PM										✓									
31		8/24/17		3:22 PM										✓									
38		8/24/17		3:22 PM										✓									
33		8/24/17		3:22 PM										✓									
34		8/24/17		3:22 PM										✓									
35		8/24/17		3:22 PM										✓									
32		8/24/17		3:22 PM										✓									
37		8/24/17		3:22 PM										✓									
36		8/24/17		3:22 PM										✓									
39		8/24/17		3:22 PM										✓									
34		8/24/17		3:22 PM										✓									
31		8/24/17		3:22 PM										✓									
38		8/24/17		3:22 PM										✓									
33		8/24/17		3:22 PM										✓									
34		8/24/17		3:22 PM										✓									
35		8/24/17		3:22 PM										✓									
32		8/24/17		3:22 PM										✓									
37		8/24/17		3:22 PM										✓									
36</																							

**From:** Bratcher, Mike, EMNRD  
**To:** [Cliff Brunson](#)  
**Cc:** [Weaver, Crystal, EMNRD](#); [Wade Dittrich](#); [Jennifer\\_Smith@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** RE: OXY Simpson CDM 1H CTB (2RP-4333) - Delineation Workplan  
**Date:** Monday, March 5, 2018 10:29:49 AM

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RE: OXY USA \* Simpson CDM 1H CTB \* 2RP-4333 \* DOR: 7/21/17

Cliff,

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

Mike Bratcher  
NMOCD District 2  
811 South First Street  
Artesia, NM 88210  
575-748-1283 Ext 108

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

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**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Saturday, November 25, 2017 3:16 PM  
**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>; Wade Dittrich <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; [Jennifer\\_Smith@oxy.com](mailto:Jennifer_Smith@oxy.com); [Ken Swinney](mailto:Ken Swinney) <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; [Jennifer Gilkey](mailto:Jennifer Gilkey) <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; [Kathy Purvis](mailto:Kathy Purvis) <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** OXY Simpson CDM 1H CTB (2RP-4333) - Delineation Workplan

Mike and Amber,

Please find the attached Delineation Workplan and remediation proposal for the OXY Simpson CDM 1H CTB (2RP-4333). OXY is requesting that you review this plan and is looking forward to both the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

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

CONDITIONS  
  
Action 78705

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 78705
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/15/2022