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DELINEATION/REMEDIATION WORKPLAN

OXY - CEDAR CANYON 15-1 SWD

(Leak Date: 10/13/19)

Incident Reference #: NRM2000244253

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2000244253.

The following information includes:

- 1. Appropriate completed and signed C-141 pages.
- 2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 3. GPS information for sample points and sample methodology.
- 4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results, and/or copy of Chevron groundwater trend map).
- 5. Watercourse/features map within 1000 feet.
- 6. BLM Cave Karst map.
- 7. FEMA National Flood map.
- 8. Laboratory analysis results summary table and original laboratory analysis reports.
- 9. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD rules, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP2 – SP5, and SP11 (WHITE shade on diagram) will require zero remediation. The leak area near SP1, SP7, and SP10 (PURPLE shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP8 (YELLOW shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP9 (GREEN shade on diagram) will be excavated to a depth of 1 foot.

Bottom and sidewall confirmation samples will be collected every 100 feet. The estimated amount of soil to be excavated is 1,583 cubic yards. The remediation will be completed within 90 days of approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	NRM2000244253
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	51 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ■ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ■ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ■ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ■ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ■ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	■ Yes □ No
Are the lateral extents of the release within a 100-year floodplain?	■ Yes □ No
Did the release impact areas not on an exploration, development, production, or storage site?	■ Yes □ No
Attach a comprehensive report (electronic submittels in adf formet are quifered) down at discussion of the last	

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Ch	aracterization Report Checklist: Each of the following items must be included in the report.
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody
	,

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID		
District RP	NRM2000244253	
Facility ID		
Application ID		

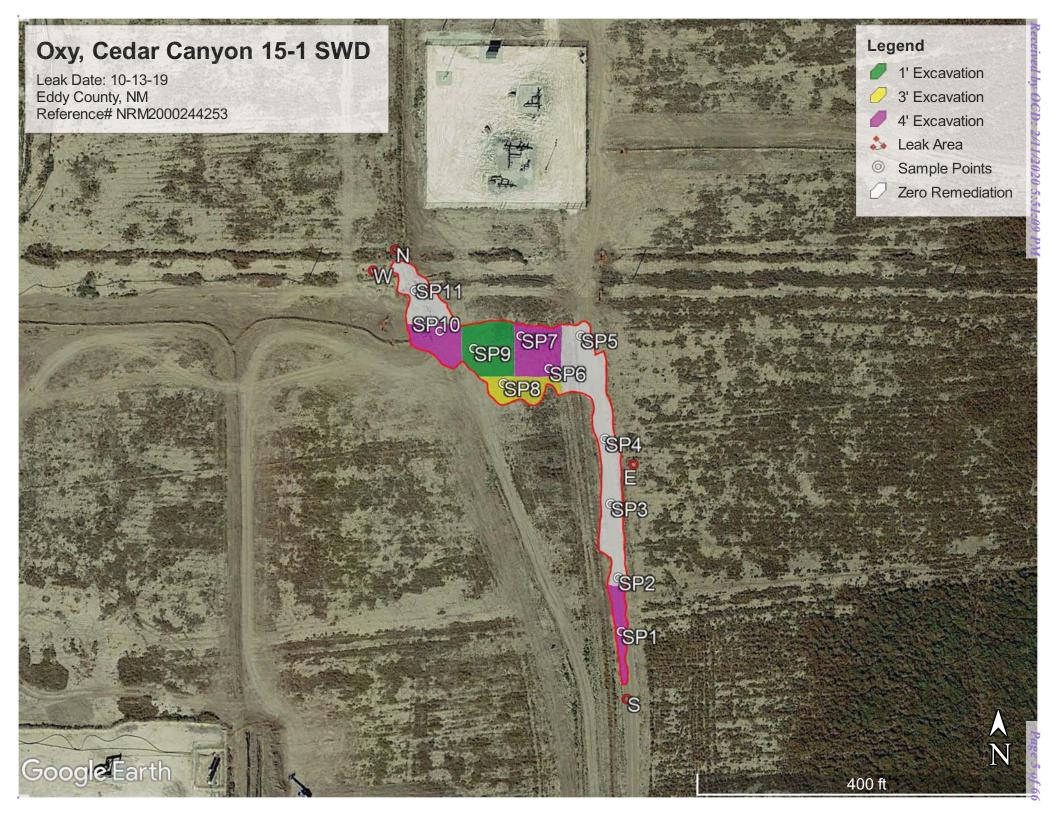
regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich Signature: wade_dittrich@oxy.com	Title: Environmental Coordinator Date: 2-10-2020 Telephone: (575) 390-2828
OCD Only Received by: Cristina Eads	Date: _03/18/2020

Form C-141 Page 5 State of New Mexico
Oil Conservation Division

	W
Incident ID	
District RP	NRM2000244253
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
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Defermed Promosts Only. Each of the following items must be confirmed as an first of the following items must be confirmed as a first of the following items as a first of the f
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
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. Printed Name: Wade Dittrich Title: Environmental Coordinator Date: 2-0-2000 Telephone: (575) 390-2828
OCD Only
Received by: Cristina Eads Date: 03/18/2020
Approved
Signature: Outland Date: 03/18/2020



CEDAR CANYON 15-1 SWD FACILITY (10-13-19)

CONFIRMATION SAMPLE POINTS

SP1, N 32.20893, W -103.97681

SP2, N 32.20910, W -103.97683

SP3, N 32.20934, W -103.97685

SP4, N 32.20955, W -103.97688

SP5, N 32.20988, W -103.97697

SP6, N 32.20977, W -103.97709

SP7, N 32.20988, W -103.97720

SP8, N 32.20973, W -103.97726

SP9, N 32.20984, W -103.97738

SP10, N 32.20989, W -103.97750

SP11, N 32.21002, W -103.97760

North, N 32.21061, W -103.97767

East, N 32.20946, W -103.97767

West, N 32.21009, W -103.97776

South, N 32.20871, W -103.97679

Oxy, Cedar Canyon 15-1 SWD Disposal Facility **U/L D, Section 22, T24S, R29E**

Groundwater: 75'-100'





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:			
Groundwater	~	New Mexico	~	GO	
					٠

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs **site_no list** = • 321355104012001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico
Latitude 32°13'55", Longitude 104°01'20" NAD27
Land-surface elevation 2,983 feet above NAVD88
The depth of the well is 160 feet below land surface.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measureme
1983-02-01		D	47.14			2		U		
1987-10-16		D	51.84			2		U		
1988-02-11		D	52.19			2		U		
1992-10-20		D	51.78			2		S		

Explanation					
Section	Code	Description			
Water-level date-time accuracy	D	Date is accurate to the Day			
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot			
Status		The reported water-level measurement represents a static level			
Method of measurement	S	Steel-tape measurement.			
Method of measurement	U	Unknown method.			
Measuring agency		Not determined			
Source of measurement	U	Source is unknown.			
Water-level approval status	А	Approved for publication Processing and review completed.			

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

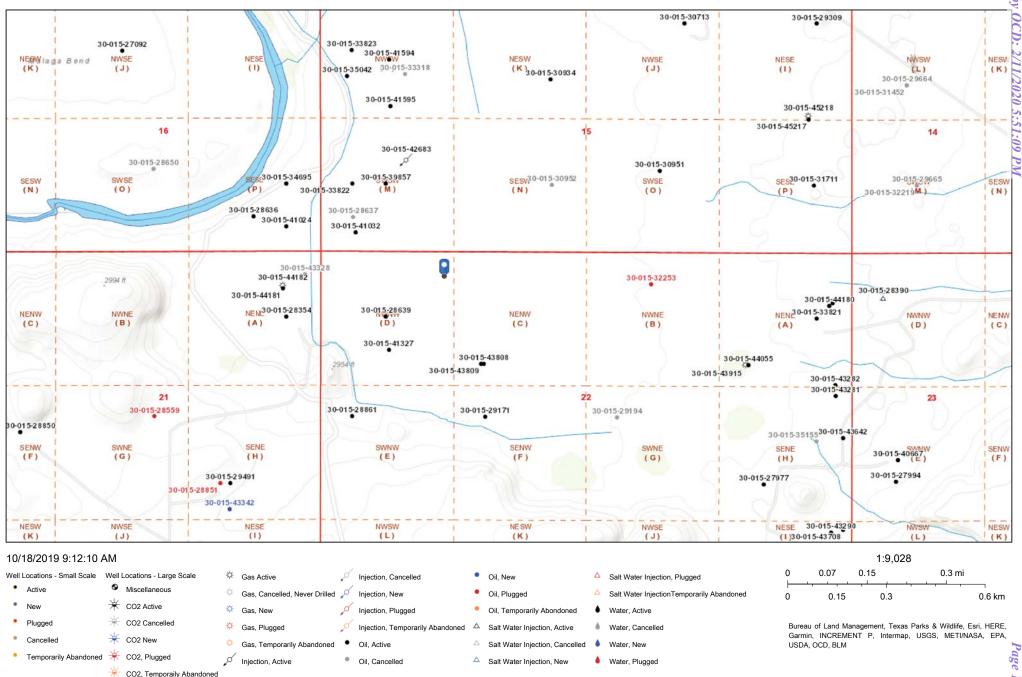
Page Contact Information: New Mexico Water Data Maintainer

Page Last Modified: 2019-10-18 11:26:54 EDT

0.48 0.43 nadww01

USA.gov

Oxy, Cedar Canyon 15-1 SWD Disposal Facility



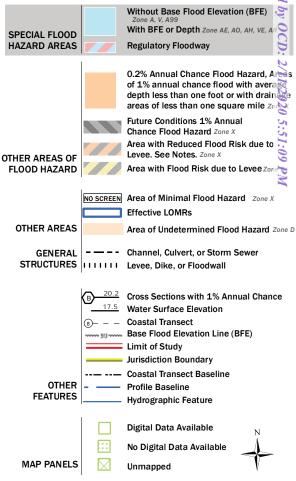
BLM CAVE KARST Legend Oxy, Cedar Canyon 15-1 SWD Disposal Facility **MAP** 🏂 Leak Area Leak date: 10/13/19 Eddy County, NM Low potential Medium potential 746 Google Earth 3000 ft © 2018 Google

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOU





The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/18/2019 at 11:45:43 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Laboratory Analytical Results Summary Oxy, Cedar Canyon 15-1 SWD 10-13-19

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	12/27/19	12/27/19	12/27/19	12/27/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

			SP1 @							
		Sample ID	Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	12/27/19	12/27/19	12/27/19	12/27/19	12/27/19	12/27/19	12/27/19	12/27/19
			mg/kg							
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		<16.0	208	1680	2960	1920	432	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		10.4	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	12/27/19	12/27/19	12/27/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		<16.0	336	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

			SP3@		
		Sample ID	Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	12/27/19	12/27/19	12/27/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	< 0.300	n/a
Chloride	SM4500CI-B		<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP4 @		
		Sample ID	Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	12/27/19	12/27/19	12/27/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		<16.0	16.0	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP5@		
		Sample ID	Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	12/27/19	12/27/19	12/27/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		<16.0	32.0	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP6@					
		Sample ID	Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19
			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
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	< 0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		12800	2440	1630	368	48.0	64.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M	·	<10.0	<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 6'	SP7 @ 8'	SP7 @ 9'
• • •										
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19
			mg/kg	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	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	< 0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		28800	12400	13600	13800	2840	496	112	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	30.3	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary Oxy, Cedar Canyon 15-1 SWD 10-13-19

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 5'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19
			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
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		36400	2960	1680	416	64.0	64.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a

			SP9@		
		Sample ID	Surface	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	< 0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		11400	144	336
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		16.1	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP10 @								
		Sample ID	Surface	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'	SP10 @ 4'	SP10 @ 6'	SP10 @ 8'	SP10 @ 9'	SP10 @ 10'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/31/19	12/31/19	12/31/19	12/31/19
			mg/kg	mg/kg	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	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	< 0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		13400	13600	21000	13200.0	5520.0	2880.0	336.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		24.3	25.4	14.4	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

			SP11 @		
		Sample ID	Surface	SP11 @ 1'	SP11 @ 2'
Analyte	Method	Date	12/31/19	12/31/19	12/31/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	< 0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	< 0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	< 0.300	n/a
Chloride	SM4500CI-B		<16.0	48.0	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a



January 10, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 15-1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/03/20 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By: Tamara Oldaker

Project Location:

OXY - EDDY CO NM

Sample ID: NORTH @ SURFACE (H000021-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.92	96.0	2.00	1.86	
Toluene*	<0.050	0.050	01/08/2020	ND	1.95	97.3	2.00	2.49	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	2.03	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	6.09	102	6.00	2.76	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	87.5	% 41-142							
Surrogate: 1-Chlorooctadecane	93.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: EAST @ SURFACE (H000021-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.92	96.0	2.00	1.86	
Toluene*	<0.050	0.050	01/08/2020	ND	1.95	97.3	2.00	2.49	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	2.03	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	6.09	102	6.00	2.76	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.2	% 37.6-14	7						

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*=Accredited Analyte

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

88.0 %

37.6-147

Sample ID: WEST @ SURFACE (H000021-03)

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	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	85.8 %	% 41-142							

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Surrogate: 1-Chlorooctadecane

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SOUTH @ SURFACE (H000021-04)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	88.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.5	% 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Project Location: OXY - EDDY CO NM Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H000021-05)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	10.4	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	88.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	90.1	% 37.6-14	7						

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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:

BTEX 8021B

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

mg/kg

92.6 %

37.6-147

Sample ID: SP 1 @ 1' (H000021-06)

				-					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	89.0	% 41-142	ı						

Analyzed By: ms

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

Sample ID: SP 1 @ 2' (H000021-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	88.2 9	6 41-142							
Surrogate: 1-Chlorooctadecane	93.3 9	6 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

Analyte

Analyte

OXY - EDDY CO NM

Sample ID: SP 1 @ 3' (H000021-08)

Chloride,	SM4500CI-B
-----------	------------

mg/kg

Analyzed By: AC

Method Blank

BS % Recovery

104

True Value QC

Qualifier

Chloride

Result 2960

01/08/2020 16.0

Analyzed

Analyzed

ND

416

400

RPD 0.00

Sample ID: SP 1 @ 4' (H000021-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

416

True Value QC % Recovery

Chloride

1920

Result

16.0 01/08/2020 Method Blank ND

104

400

RPD Qualifier 0.00

Sample ID: SP 1 @ 5' (H000021-10)

Chloride, SM4500Cl-B

ma	/ka
mg,	/ Kg

Analyzed By: AC

Analyte Result

Analyzed

Method Blank BS % Recovery True Value QC

104

104

RPD

Qualifier

Chloride

Chloride

432

Result

<16.0

01/08/2020

ND

Method Blank

ND

ND

416

BS

416

416

400

0.00

Sample ID: SP 1 @ 6' (H000021-11)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Analyzed

01/08/2020

Analyzed

01/08/2020

% Recovery

True Value QC

400

400

RPD

0.00

Qualifier

Sample ID: SP 1 @ 7' (H000021-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

	Analyte	Result
Chloride		<16.0

Reporting Limit

16.0

Method Blank BS

True Value QC % Recovery

104

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

Sample ID: SP 2 @ SURFACE (H000021-13)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	85.6	% 37.6-14	7						

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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:

RTFY 8021R

01/03/2020

Sampling Date:

Sample Received By:

12/27/2019

Reported:

01/10/2020

Sampling Type: Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

ma/ka

Sample ID: SP 2 @ 1' (H000021-14)

BIEX 8021B	mg/	кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142)						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	7						

Analyzed By: me

Cardinal Laboratories

*=Accredited Analyte

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

Sample ID: SP 2 @ 2' (H000021-15)

Chloride, SM4500Cl-B	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	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: (575) 397-0397

Received:

RTFY 8021R

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

ma/ka

Sample ID: SP 3 @ SURFACE (H000021-16)

very True Value QC RPD Qualifier 5 2.00 9.17
5 2.00 9.17
7 2.00 9.59
3 2.00 10.1
8 6.00 9.67
very True Value QC RPD Qualifier
400 0.00
very True Value QC RPD Qualifier
5 200 0.228
3 200 0.0984
1

Analyzed By: me

Cardinal Laboratories

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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:

RTFY 8021R

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

ma/ka

95.5 %

37.6-147

Sample ID: SP 3 @ 1' (H000021-17)

BIEX 8021B	тд/кд		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	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	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142)						

Analyzed By: me

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 3 @ 2' (H000021-18)

Chloride, SM4500Cl-B mg/kg

Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride <16.0 16.0 01/08/2020 ND 416 104 400 3.92

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Celeg D. Kreene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 4 @ SURFACE (H000021-19)

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	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 4 @ 1' (H000021-20)

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	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	84.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.2	% 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

Sample ID: SP 4 @ 2' (H000021-21)

Chloride, SM4500Cl-B	nloride, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/08/2020	ND	416	104	400	3.92	

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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:

RTFY 8021R

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

89.2 %

37.6-147

Sample ID: SP 5 @ SURFACE (H000021-22)

BIEX 8021B	тд/кд		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	85.2	% 41-142)						

Analyzed By: me

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 5 @ 1' (H000021-23)

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	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	88.6	% 37.6-14	7						

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*=Accredited Analyte

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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:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/10/2020

Sampling Type:

12/2//2019 Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 5 @ 2' (H000021-24)

Chloride, SM4500Cl-B

mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/08/2020	ND	416	104	400	3.92	

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Celeg D. Keine



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

mg/kg

Sample ID: SP 6 @ SURFACE (H000021-25)

	9/	9	7	7:					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	91.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

Analyzed By: ms

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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:

BTEX 8021B

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

mg/kg

94.8 %

37.6-147

Sample ID: SP 6 @ 1' (H000021-26)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142)						

Analyzed By: ms

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Surrogate: 1-Chlorooctadecane

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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:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 6 @ 2' (H000021-27)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/08/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 6 @ 3' (H000021-28)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Method Blank

% Recovery 104

True Value QC RPD Qualifier

Chloride

368

01/08/2020 16.0

Analyzed

Analyzed

ND

BS 416

3.92

Sample ID: SP 6 @ 4' (H000021-29)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

% Recovery

True Value QC RPD

Qualifier

Chloride

Result 48.0

16.0 01/08/2020

Reporting Limit

Method Blank ND

Method Blank

416

104

400

400

3.92

Sample ID: SP 6 @ 5' (H000021-30)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit Analyzed Chloride 64.0 01/08/2020 16.0

ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.92 Qualifier

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 7 @ SURFACE (H000021-31)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/09/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28800	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	84.2	% 41-142							
Surrogate: 1-Chlorooctadecane	92.6	% 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 7 @ 1' (H000021-32)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/09/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	83.9 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.9 9	% 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Project Location: OXY - EDDY CO NM Sample Received By:

Tamara Oldaker

Sample ID: SP 7 @ 2' (H000021-33)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/09/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	01/08/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	30.3	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	83.0 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	96.7 %	6 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 7 @ 3' (H000021-34)

mg/kg

Analyzed By: AC

Analyte	

Result Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC 400

Qualifier

Chloride

13800

Result

2840

496

Result

112

01/08/2020 16.0

ND

Method Blank

ND

BS 416

104

RPD

3.92

3.92

3.92

Sample ID: SP 7 @ 4' (H000021-35)

Chloride, SM4500Cl-B

Analyte

mg/l	۲g
------	----

Reporting Limit

16.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed By: AC

BS

416

BS

416

% Recovery

104

True Value QC

RPD Qualifier

Chloride

Chloride

Chloride

Sample ID: SP 7 @ 6' (H000021-36)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result

Analyzed 01/08/2020

01/08/2020

Analyzed

01/08/2020

Analyzed

01/08/2020

Method Blank

ND

% Recovery

True Value QC 400

400

400

400

RPD

Qualifier

Sample ID: SP 7 @ 8' (H000021-37)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Analyzed

Method Blank ND

BS 416

400

% Recovery 104

104

True Value QC

RPD

3.92

Qualifier

Sample ID: SP 7 @ 9' (H000021-38)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Chloride 80.0

Method Blank BS

ND

True Value QC % Recovery

100

RPD

3.92

Qualifier

Cardinal Laboratories

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

mg/kg

Sample ID: SP 8 @ SURFACE (H000021-39)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.73	86.5	2.00	9.17	
Toluene*	<0.050	0.050	01/09/2020	ND	1.73	86.7	2.00	9.59	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.79	89.3	2.00	10.1	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.39	89.8	6.00	9.67	
Total BTEX	<0.300	0.300	01/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500CI-B Analyte	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
,	_		-		BS 400	% Recovery	True Value QC	RPD 3.92	Qualifier
Analyte	Result	Reporting Limit	Analyzed 01/08/2020	Method Blank		•	·		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 01/08/2020	Method Blank		•	·		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 36400 mg/	Reporting Limit 16.0	Analyzed 01/08/2020 Analyze	Method Blank ND d By: MS	400	100	400	3.92	
Analyte Chloride TPH 8015M Analyte	Result 36400 mg/	Reporting Limit 16.0 kg Reporting Limit	Analyzed 01/08/2020 Analyze	Method Blank ND d By: MS Method Blank	400 BS	100 % Recovery	400 True Value QC	3.92 RPD	

Analyzed By: ms

_

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

78.6 % 87.5 % 41-142 37.6-147

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 8 @ 1' (H000021-40)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	01/08/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

mg/kg

98.2 %

37.6-147

Sample ID: SP 8 @ 2' (H000021-41)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	01/08/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	83.8	% 41-142	1						

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

Analyte

Analyte

Analyte

OXY - EDDY CO NM

Sample ID: SP 8 @ 3' (H000021-42)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

% Recovery True Value QC

RPD

Qualifier

Chloride

Result **416**

16.0 01/08/2020

Analyzed

Analyzed

Method Blank ND

400

3.92

Sample ID: SP 8 @ 4' (H000021-43)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

yzeu by. AC

% Recovery

100

Qualifier

Chloride

Chloride

Result 64.0

Result

64.0

16.0 01/08/2020

Method Blank ND BS 400

BS

400

100

True Value QC 400

400

RPD Qual

Sample ID: SP 8 @ 5' (H000021-44)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed 01/08/2020

Method Blank ND % Recovery

True Value QC 400

RPD 3.92 Qualifier

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 33 of 51



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 9 @ SURFACE (H000021-45)

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	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

98.7 %

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	01/08/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	mg/kg Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	16.1	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane

84.6 %

41-142

Surrogate: 1-Chlorooctadecane

94.4 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

ma/ka

Sample ID: SP 9 @ 1' (H000021-46)

Result	Reporting Limit	Analyzed	M 11 1 1 1 1					
<0.050		,, zea	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
~0.030	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25	
<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
<0.300	0.300	01/08/2020	ND					
100 9	% 73.3-12	9						
mg/	/kg	Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	01/08/2020	ND	400	100	400	3.92	
mg/	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
<10.0	10.0	01/09/2020	ND	224	112	200	1.54	
<10.0	10.0	01/09/2020	ND					
80.4	% 41-142	?						
89.1	% 37.6-14	7						
	<0.050 <0.150 <0.300 100 9 mg/ Result 144 mg/ Result <10.0 <10.0 <80.4	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 100 % 73.3-12 mg/kg Result Reporting Limit 144 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Analyzed By: MC

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Celegy Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 9 @ 2' (H000021-47)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/08/2020	ND	400	100	400	3.92	

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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:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

10 15 15

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

Sample ID: SP 10 @ SURFACE (H000021-48)

TEX 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	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	01/08/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	24.3	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	83.8	% 41-142)						
Surrogate: 1-Chlorooctadecane	94.1	% 37.6-14	7						

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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:

BTEX 8021B

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY CO NM

mg/kg

Sample ID: SP 10 @ 1' (H000021-49)

	9/	9	71.14.1,20						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	01/08/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	25.4	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142							
Surrogate: 1-Chlorooctadecane	93.8	% 37.6-14	7						

Analyzed By: MS

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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:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By:

97.4

112

Cool & Intact Tamara Oldaker

0.451

1.54

200

200

Project Number:

10-13-19

Project Location:

BTEX 8021B

OXY - EDDY CO NM

mg/kg

Sample ID: SP 10 @ 2' (H000021-50)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	01/08/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

195

224

01/09/2020

01/09/2020

01/09/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane

GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

91.4 %

<10.0

14.4

<10.0

41-142

10.0

10.0

10.0

Surrogate: 1-Chlorooctadecane

101 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/30/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

Analyte

Analyte

OXY - EDDY CO NM

Sample ID: SP 10 @ 3' (H000021-51)

Chloride,	SM4500CI-B
-----------	------------

mg/kg

Analyzed By: AC

Result Reporting Limit

Analyzed Method Blank BS % Recovery

100

True Value QC

Qualifier

Chloride

13200

01/08/2020 16.0

ND

400

400

RPD 3.92

Sample ID: SP 10 @ 4' (H000021-52)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

True Value QC % Recovery

Qualifier

Chloride

Result 5520

16.0 01/08/2020

Reporting Limit

Reporting Limit

Method Blank ND

400

100

400

RPD 3.92

Sample ID: SP 10 @ 6' (H000021-53)

Chloride, SM4500Cl-B

Analyzed By: AC

Analyte Result

% Recovery

True Value QC

RPD

Chloride

01/08/2020 16.0

Method Blank ND

BS 400

100

400

Qualifier

Chloride

Chloride

2880

Result

336

Result

<16.0

3.92

Analyte

mg/kg

Analyzed By: AC

Analyzed

Analyzed

Sample ID: SP 10 @ 8' (H000021-54)

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 01/08/2020

01/08/2020

Method Blank ND

Method Blank

ND

BS 400

% Recovery

True Value QC

RPD

Qualifier

Sample ID: SP 10 @ 9' (H000021-55)

Chloride, SM4500Cl-B

mg/kg

Analyzed

Analyzed By: AC

BS

400

% Recovery

100

100

True Value QC

400

400

3.92

RPD

3.92

Qualifier

Cardinal Laboratories

Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

Page 40 of 51



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

Chloride

01/03/2020

Sampling Date:

400

100

12/31/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

16.0

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

3.92

400

Project Number:

10-13-19

<16.0

Project Location:

OXY - EDDY CO NM

Sample ID: SP 10 @ 10' (H000021-56)

Chioride, SM4500CI-B	mg/	кд	Anaiyzed	i By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

01/08/2020

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Celeg D. Kreene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

01/03/2020

Sampling Date:

12/31/2019

Reported:

01/10/2020

ma/ka

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Project Location: OXY - EDDY CO NM

Sample Received By:

Tamara Oldaker

Sample ID: SP 11 @ SURFACE (H000021-57)

8.25 8.96 8.62 8.46	Qualifier
8.96 8.62	
8.62	
8.46	
RPD	Qualifier
3.92	
RPD	Qualifier
0.451	
1.54	

Analyzed By: MC

Cardinal Laboratories

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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:

01/03/2020

Sampling Date:

12/31/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

10-13-19

Project Location:

OXY - EDDY CO NM

Sample ID: SP 11 @ 1' (H000021-58)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/08/2020	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	01/09/2020	ND	195	97.4	200	0.451	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	224	112	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	85.79	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.9	% 37.6-14	7						

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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:

01/03/2020

Sampling Date:

12/31/2019

Reported:

01/10/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON 15-1 SWD

Sampling Condition:

Cool & Intact

Project Number:

10-13-19

Sample Received By:

Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 11 @ 2' (H000021-59)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/08/2020	ND	416	104	400	3.77	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 2/11/2020 5:51:09 PM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

186

RDINAL LA	BUL	KAIC	IKI	=5
101 East Marla	nd, Ho	obbs, i	MI 8	38240
(505) 393-2326	FAX	(505) 3	93-2	476

	e: BBC International, Inc.							Т			B	ILL 7	0							A N A	LVS	215	DEC	QUE	СТ			
Project Manage	er: Cliff Brunson							P	.0.	#:						I	Т		Ť	111/	I			XOE.		T-	т—	
Address: P.C). Box 805							С	omp	pan	v:	OVI	X		1													
city: Hobbs	State: NM	Zi	p:	882	241				ttn:		11	ado	0		1													
Phone #: 575	-397-6388 Fax #: 575	5-39	97-0	039	7				ddr		·	Mu																
Project #:	Project Owne	r: C	ху		72.01				ity:		_												- 1					
Project Name:	Cedar Canyon 15-1 SWD 10-13-		- 50						tate			Zip:																
Project Location	on: Eddy County, NM								hon			Zip.	-															
Sampler Name		9							ax#							1												
FOR LAB USE ONLY	Terror Terror	T	Т	Т	1	VIATI	RIX	11.0	-0	RESI	ERV	SAN	/IPLI	NG	1		1											
-		MP.	1	_							T				1		1											
		OR (C)OMP	RS	GROUNDWATER	E										1	~	1					1						
Lab I.D.	Sample I.D.	OR (AN P	N N	VAT			1	SE	70						I)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \										
		AB	Įķ	IS	TEV		JGE	ER:	/BA	00	ER				7	1	- 2	T										
H000021	8	(G)RAB	# CONTAINERS	GRC	WASTEWATER	SOIL		H	ACID/BASE:	ICE / COOL	OTHER:	DA	TE	TIME	0	A	7 /	+										
1	North @ Surface	e	1			1			T	Ī				8:59 AM	1	1	+	/	_			+	\dashv	\neg			_	
2	East @ Surface	1	1			1				1		12-27		9:11 AM	1	1		/	-	-		+	+					
3	West @ Surface									1		12-27	_	9:22 AM	1	1	-	/	-			+	+			-		
4	South @ Surface		П									12-27-	19	9:33 AM	1	1		/	+			+	+					
5	SP1 @ Surface											12-27-	19	9:45 AM	1	1	ľ	,	\dashv			+	+					
4	SP1 @ 1'		П						Г	1		12-27-	19	9:51 AM	1	1	j	,	1			+	-					
7	SP1 @ 2'											12-27-	19	10:01 AM	1	1		-	\dashv			+	1					
8	SP1 @ 3'											12-27-	19	10:15 AM	1			\top				+						
9	SP1 @ 4'											12-27-	19	10:23 AM	1			1	+			+	+					
DI EASE NOTE: Lieblita	SP1 @ 5'	V	V			V				V		12-27-	19	10:41 AM	1							1	+	-				
	nd Damages. Cardinal's liability and client's exclusive remedy for any those for negligence and any other cause whatsoever shall be															nle												
affiliates or successors aris	ing out of or related to the performance of services hereunder by (
Relinquished B	y: Date: 12:31-19	Re	ecei	ved	Ву:									Phone Res	ult:	□ Ye		□ No			Phone							
	Time:												ŀ	Fax Result REMARKS		□ Ye	es	□ No) A	Add'l	Fax #:	[
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Dolivared Pu	: (Circle One)	1		10	u	w	a	1	L.	a	RA	OK																
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Sampler - UPS	- Bus - Other: #113 -0	.5	0		PY	es [Ye	s	-	Te	* HOUSE																	
						NO	_ NO)		W .	20		- 1															1

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

151

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	BBC International, Inc.								HT.	BI	LL TO	(En		_			ANA	LYSIS	RF	OUE	ST			
	r: Cliff Brunson						7	2.0.	#:						Ĭ									
Address: P.O.							-	Com	pan	y: (Drux													
city: Hobbs	State: NM	Zip	: 8	8241	1		1	Attn:	l	Va	de													
Phone #: 575-	397-6388 Fax #: 575	-397	7-03	397			1	Addr	ress	:														
Project #:	Project Owner	r: Ox	кy					City:																
Project Name: (Cedar Canyon 15-1 SWD 10-13-1	9					5	State	e:		Zip:													
Project Location	n: Eddy County, NM						F	hor	ne#															
Sampler Name:	Simon Rendon						F	ax #	#:				1										- 1	
FOR LAB USE ONLY				-	MA	TRIX		P	RES	ERV.	SAMPLI	NG	1										- 1	
Lab I.D. <i><u></u> </i>	Sample I.D.	G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME	Cl	PSTEX	Fort EV									
11	SP1 @ 6'	3	1		i				1		12-27-19	10:57 AM	1											
	SP1 @ 7'	1	1		1				1		12-27-19	11:11 AM	1											
	SP2 @ Surface										12-27-19		1	1	-1									
	SP2 @ 1'		Ш								12-27-19	11:25 AM	1	1	1									
	SP2 @ 2'										12-27-19	11:37 AM	1											
	SP3 @ Surface		Ш					┸			12-27-19	12:12 PM	1	✓	1									
	SP3 @ 1'		4								12-27-19	THE COURT OF THE PARTY OF THE P	1	1	1									
18	SP3 @ 2' SP4 @ Surface		Ш					_			12-27-19	1:11 PM	1											
		1					_	┸			12-27-19	1:15 PM	1	1	1									
	SP4 @ 1'	7	7		V				_'		12-27-19	1:18 PM	1	1	1									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or to analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is bar										rdinal w	within 30 days after of its incurred by o	r completion of the	ne applica ries.	ble								11		
Relinguished By	v: Date:	Re	ceiv	ed By	1.							Phone Res	cult-	T Vo	c [No	Addil	Dhone t	4.					

illiates of successors ansing out of or related to the performance of	services nereunder by Ca	ardinal, regardless of whether such claim is bas	ed upon any of the above stated rea	sons or otherwise.				
Relinquished By:	Date:	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:	
	12:31-19			Fax Result:	☐ Yes	□ No	Add'I Fax #:	
	Time:			REMARKS:			• And the second	
Relinquished By:	Date:	Received By:	0.					
assign	1-3-20 Time:	busara	Maller	,				
Delivered By: (Circle One)	14.	Sample Condition	CHECKED BY					
Sampler - UPS - Bus - Other:	13 -0	Cool Intact Yes Yes No No	(Initials)					

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

Received by OCD: 2/11/2020 5:51:09 PM

3 of 6

RDINAL LABORATORIES

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

CHAIN-OF-CUSTOD'	/ AND	ANALYSIS	REQUEST
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	e: BBC International, Inc.							L	4	Y12: 17	B	IL	L TO						AN	IAL	YSI	SR	REC	UE	ST			
Project Manage	er: Cliff Brunson							P	P.O. 1	#:											HE COLL	T	T	No. of Contract				
Address: P.O.	. Box 805							c	omp	par	ny:	0	XVX		1						ĺ							"
city: Hobbs	State: NM	Zir): {	882	41				Attn:		Wa	ad	les								ĺ							!
Phone #: 575-	-397-6388 Fax #: 575-	-39	7-0	397				Δ	Addr		-																	!
Project #:	Project Owner	r: O	ху					c	ity:						1						ı							!
Project Name:	Cedar Canyon 15-1 SWD 10-13-1								tate			z	ip:															
Project Location	n: Eddy County, NM								hon		#:		.p.															
Sampler Name:									ax#		1.50																	
FOR LAB USE ONLY	1 3 3 3 3 3	1000			M	IATR	RIX			4.7719	SERV	v.	SAMPLI	NG			1											
Lab I.D. 사 0000 21	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE OTHER	ACID/BASE:	ACIDIDAGE.	ICE / COOL	O Lilein	DATE	TIME	10	RIFY	くいこと	PHEX										
21	SP4 @ 2'	9	1	Ĭ		1	5 0.	1	1	1	-	-8	T.550.00909(tb=30)	50000000	1				_			\vdash	+	\neg		\vdash	_	\vdash
22	SP4 @ 2' SP5 @ Surface SP5 @ 1'	1	i		1	1			T	1	1	-	12-27-19		1	1	Τ,	/				+-	+			_		
23	SP5 @ 1'							1						1:43 PM	1	1		/					+					
24	SP5 @ 2'											_			1								+					
25	SP6 @ Surface									1		1	12-30-19	9:11 AM	1	1	١,	/					+					
26	SP6 @ 1' SP6 @ 2' SP6 @ 3' SP6 @ 4'											1	12-30-19	9:23 AM	1	1	١,	/					+					
27	SP6 @ 2'											1	12-30-19	9:40 AM	1	1	١,	1					\top					
28	SP6 @ 3'	1										1	12-30-19	9:56 AM	1													
29	SP6 @ 4'											1	12-30-19	10:11 AM	1								1					
30	SP6 @ 5'	1	1		*	y				1	V		12-30-19	10:19 AM	1													
service in no event shall C	and Damages. Cardinal's liability and client's exclusive remedy for a ling those for negligence and any other cause whatsoever shall be clarified by the control of the con	g without Cardinal Re	d waiv ut limiti il, rega	ved unle tation, bi	ss made usiness of whethe	de in wr s interru	vriting as ruptions	and rec is, loss	ceived s of use	d by Ca se, or lo	loss of	l within	in 30 days after ts incurred by c	r completion of th	ne applic ries, se sult: t:	able Y		□ N			Phone ax #:							
	Date: /-3 - 20 Time: // (Circle One)	Re		(Sample Cool	Int	tact		2	C		KET	D BY:															
Sampler - UPS	- Bus - Other: #113 - 0	2.5	C		□ Ye	es L	31	es No	11	T	0.	_																

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Received by OCD: 2/11/2020 5:51:09 PM

ARDINAL 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.							lii Biin		BI	LL TO						AN	ALYSI	S RE	QUE	ST	 	
Project Manage	er: Cliff Brunson							P.O.	. #:											T			
Address: P.O	. Box 805							Con	npa	ny:	OXUX		1										
city: Hobbs	State	NM zij	o: 8	3824	1			Attn	1:	Wa	de		1										
Phone #: 575-	397-6388 Fax #:	575-39	7-0	397				Add	ires	s:													
Project #:	Projec	t Owner: C	ху					City	r:														
Project Name:	Cedar Canyon 15-1 SWD 1	0-13-19						Stat	,		Zip:												
Project Locatio	n: Eddy County, NM						i	Pho		#:													
Sampler Name:		_						Fax															
FOR LAB USE ONLY					MA	TRI		-		SERV	SAMPL	ING	1		1					1			
		JAMP.	1	2											5	X							
	85)1	OR (C)OMP	ERS	ATE	포										1	0				1			
Lab I.D.	Sample I.D.		AN	MO	××××××××××××××××××××××××××××××××××××××		ш		4SE	д 				I	1	1							
		(G)RAB	# CONTAINERS	GROUNDWATER	WASTEWATER	١.	SLUDGE	OTHER:	ACID/BASE	ICE / COOL OTHER:			-1	1	- 6)							
H000021		9	#	GR.	SOIL	ō	SLI	6	G .	5 5	DATE	TIME		A	5 L								
31	SP7 @ Surface	6	1	Ш	l			4		1_	12-30-19	Thiometerminentification	1	1	1								
	SP7 @ 1'		1	Ш	-1					1	12-30-19		✓	1	1								
	SP7 @ 2'		Ш		1						[10742] S0.785 (4150)	10:37 AM	1	1	1								
34	SP7 @ 3'		Ш		1			4			12-30-19		1										
	SP7 @ 4'										12-30-19		✓										
	SP7 @ 6'		Ц					_			12-30-19	11:43 AM	1										
37 38	SP7 @ 8'		Н			-		_			12-30-19	12:49 AM	1										
58	SP7 @ 9'							\perp			12-30-19	1:11 PM	1										
	SP8 @ Surface			Ш	_4			_		1	12-30-19	1:15 PM	1	1	1	8 1							
PLEASE NOTE: Liability a	SP8 @ 1' nd Damages. Cardinal's liability and client's exclusive	ramady for any cla	14	ag what	V	1	ntrast s		aball b	٧	12-30-19	1:20 PM	1	1	✓								
analyses All claims includ	ng those for negligence and any other cause whatsoe ardinal be liable for incidental or consequental damag	ver shall be deeme	d waiv	ed unles	s made i	n writi	no and i	receive	ed by (Cardinal	within 30 days after	er completion of th	a annlina	ble									
affiliates or successors aris	ing out of or related to the performance of services he	reunder by Cardina	rega	dless of	whether	such	claim is	based	ise, or upon	any of the	rofits incurred by e above stated re	asons or otherwis	e										
Relinquished B	y: Date:	3-19	ecer	ed E	y:							Phone Res		□ Y		□ No		'I Phone 'I Fax #:					
	Time:	DM										REMARKS					7100	· · · · · ·					
Relinquished B	y: Date:	R	ecei	ed E	y:				,	11	1												
	Time:	05-0		4	2	,,	11- 1		//		a Lot	2											
Delivered By	: (Circle One)	10	-	14	ample	a	u	4	1	AC	ED BY:												
- A	S CANDELLING THE STREET			С	ool	Inta	ct			(Init	ials)												
Sampler - UPS	- Bus - Other: #1/2	-05		[Ye	s 🖪	Yes		-	TO													

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-247	6																						
Company Name	BBC International, Inc.								H	- 15.	BI	LL TO		å				ANA	LYSI	S RE	QUE	ST		
Project Manage	r: Cliff Brunson							1	P.O.	#:		Post												
Address: P.O.	. Box 805							-	Con	npan	y: (DXIX		1			1						'	
city: Hobbs	State: NM	Zip	p: (882	41				Attn		1/1/	ado		ĺ										
Phone #: 575-									2.21	ress	100	acit												
Project #:	Project Owner	1.000							City		-													
Project Name: (Cedar Canyon 15-1 SWD 10-13-1		440						Stat			Zip:												
	n: Eddy County, NM							_		ne#														
Sampler Name:	0.								ax	200														
FOR LAB USE ONLY					ı	VIATE	RIX	_	-	RES	ERV.	SAMPLI	NG	Í		1							'	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	G	BTEX	-774 FV-1								
41	SP8 @ 2'	5	1			1				(12-30-19	1:27 PM	1	1	1								
42	SP8 @ 3'	1	1			1			1	1		12-30-19	1:37 PM	1										
	SP8 @ 4'		T						1			12-30-19	1:48 PM	1										
44	SP8 @ 5'											12-30-19	2:01 PM	1										
45	SP9 @ Surface					I			T			12-30-19	2:05 PM	1	1	1								
	SP9 @ 1'											12-30-19	2:10 PM	1	1	1								
												12-30-19	2:15 PM	1										
	SP10 @ Surface	1										12-30-19	2:16 PM	1	1	1								
	SP10 @ 1'	1										12-30-19	2:20 PM	1	1	1								
50	SP10 @ 2'	V	Y	1		V				V		12-30-19	2:27 PM	1	1	1								

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

annates or successors arising out or or related to the perio	irriance of services hereunder by Ca	rdinal, regardless of whether such claim is based upon any o	of the above stated reasons or otherwise.				
Relinquished By:	Date:	Received By:	Phone Result:	☐ Yes	□ No	Add'l Phone #:	
	12.31-19		Fax Result:	☐ Yes	□ No	Add'I Fax #:	
	Time:		REMARKS:				
Relinquished By:	Date:	Received By:					- 1
	7-3-20 Time:	1- ////	1/0				
E allas	7610	Iduara Slad	WARCE				
Delivered By: (Circle One)		Sample Condition CHE	CKED BY:				
			nitials)				
Sampler - UPS - Bus - Other:	#113 -0	Yes Yes					
	77110 -0	.JC No No					

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Page 51 of 51

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6 of 6

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

Company Nam	e: BBC International, Inc.								B	ILL TO						ΔΝΑ	LYSIS	S DE	OHE	CT.			
Project Manage	er: Cliff Brunson						P.	0. #:							7	T	LIGIC	J KL	-QUE	31			
Address: P.O	. Box 805						Co	ompa	nv:	DXIX		1											
city: Hobbs	State: NM	Zi	p: 8	824	1				1.0	. /													
Phone #: 575-								dres	V	unc		1											
Project #:	Project Owne						Cit		٥.			-				1							
Project Name:	Cedar Canyon 15-1 SWD 10-13-							ate:		(3													
	n: Eddy County, NM							-00012410		Zip:					8								
Sampler Name:	14-50							one	#:			4											
FOR LAB USE ONLY	- Trongon	Т	Т		MATI	RIX	ra	X#:	SERV	SAMPL	INC	-		1									
		₽.		40				1		- OANII L	ING	1		1)								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	70	BTFX	Tat tal									
	SP10 @ 3'	5	1		L				i	12-30-19	2:39 PM	1										-+	_
52	SP10 @ 4'	1	1		1				i	12-30-19	2:51 PM	1										-	
53			Ш							12-31-19	9:42 AM	1										-	
54	SP10 @ 8'	Ш	Ш							12-31-19	10:15 AM	1											
55	SP10 @ 9'		Ш							12-31-19	10:35 AM	1										_	
	SP10 @ 10'		Ш							12-31-19	10:50 AM	1				1							
57	SP11 @ Surface									12-31-19	11:20 AM	1	1	1								-	_
	SP11 @ 1'									12-31-19	11:45 AM	1	1	1						-	_		
59	SP11 @ 2'	1	V		1			1	1	12-31-19	12:35 PM	1									-		
PLEASE NOTE: LIGHT	d Domestic Constitution of the Constitution of																			_			
andiyaca mi ciaims includi	d Damages. Cardinai's liability and client's exclusive remedy for a g those for negligence and any other cause whatsoever shall be irdinal be liable for incidental or consequental damages, including	doomor	d maining	luntana .		(4)		, shall be red by C		to the amount paid	by the client for	the	ble	-									

Relinquished By:	Date: Recei	ved By:	Phone Result:	□ Yes	- N-	
	12.31-19		Fax Result:		□ No	Add'l Phone #:
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AND THE PROPERTY OF THE PROPER	1-3-20 Recei	veg by.	1			
< 0 .	Time;		11/2			
AVAX	11,100	INJUATA IVVAI	elfor			
Delivered By: (Circle One)	141-0	wow or warm	- age			
Donvered By. (Onche One)			ECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)			
Sampler - UPS - Bus - Other:	#113 -0.50	Yes Yes				
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