



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION/REMEDATION WORKPLAN

OXY – SUNDANCE 4-32 SWD (Leak Date: 1/20/21)

Incident ID: NAPP2103556268

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NAPP2103556268.

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).
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 SP1 (PURPLE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP2 – SP8, SP10 – SP12 and SP14 (YELLOW shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP9 (BLUE shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP13 (GREEN shade on diagram) will be excavated to a depth of 2 feet.

Bottom and sidewall confirmation samples will be collected at no greater than 200 square ft. intervals. Estimated volume of material to be removed is 804 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 agency or private surface owner.

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

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2103556268
District RP	
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?	437 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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.

Characterization 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

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2103556268
District RP	
Facility ID	
Application ID	

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 CoordinatorSignature:  Date: 3-30-21email: wade_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**Received by: Cristina Eads Date: 04/02/2021

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2103556268
District RP	
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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)

Deferral Requests Only: 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
Signature:  Date: 3-30-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD OnlyReceived by: Cristina Eads Date: 04/02/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 07/22/2021

Oxy, Sundance 4-32 SWD

Leak Date: 1-20-2021
Eddy County, NM
Incident ID: NAPP2103556268

Legend

1' Excavation

2' Excavation

3' Excavation

4' Excavation

Leak Area

Sample Points



Oxy Sundance 4-32 SWD (1-20-21)

Sample points

SP1, N 32.25209 W-103.79012

SP2, N 32.25209 W-103.78997

SP3, N 32.25199 W-103.79011

SP4, N 32.25198 W-103.78996

SP5, N 32.25202 W-103.78982

SP6, N 32.25187 W-103.78980

SP7, N 32.25188 W-103.78995

SP8, N 32.25187 W-103.79010

SP9, N 32.25210 W-103.79035

SP10, N 32.25198 W-103.79034

SP11, N 32.25184 W-103.79032

SP12, N 32.25170 W-103.79035

SP13, N 32.25169 W-103.79015

SP14, N 32.25172 W-103.78994

NORTH, N 32.25214 W-103.79004

EAST, N 32.25185 W-103.78976

WEST, N 32.25190 W-103.79035

SOUTH, N 32.25167 W-103.78994



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National Water Information System: Web Interface


USGS Water Resources

Data Category: Groundwater

Geographic Area: New Mexico

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Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321421103464901

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321421103464901 24S.31E.04.433422

Eddy County, New Mexico
Latitude 32°14'23.7", Longitude 103°46'47.8" NAD83
Land-surface elevation 3,419.00 feet above NGVD29
The depth of the well is 627 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1959-03-13		D	62610		2994.40	NGVD29	1	Z		
1959-03-13		D	62611		2996.11	NAVD88	1	Z		
1959-03-13		D	72019	424.60			1	Z		
2013-01-17	00:30 UTC	m	62610		2981.53	NGVD29	3	S	USGS	
2013-01-17	00:30 UTC	m	62611		2983.24	NAVD88	3	S	USGS	
2013-01-17	00:30 UTC	m	72019	437.47			3	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	Above
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[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?>

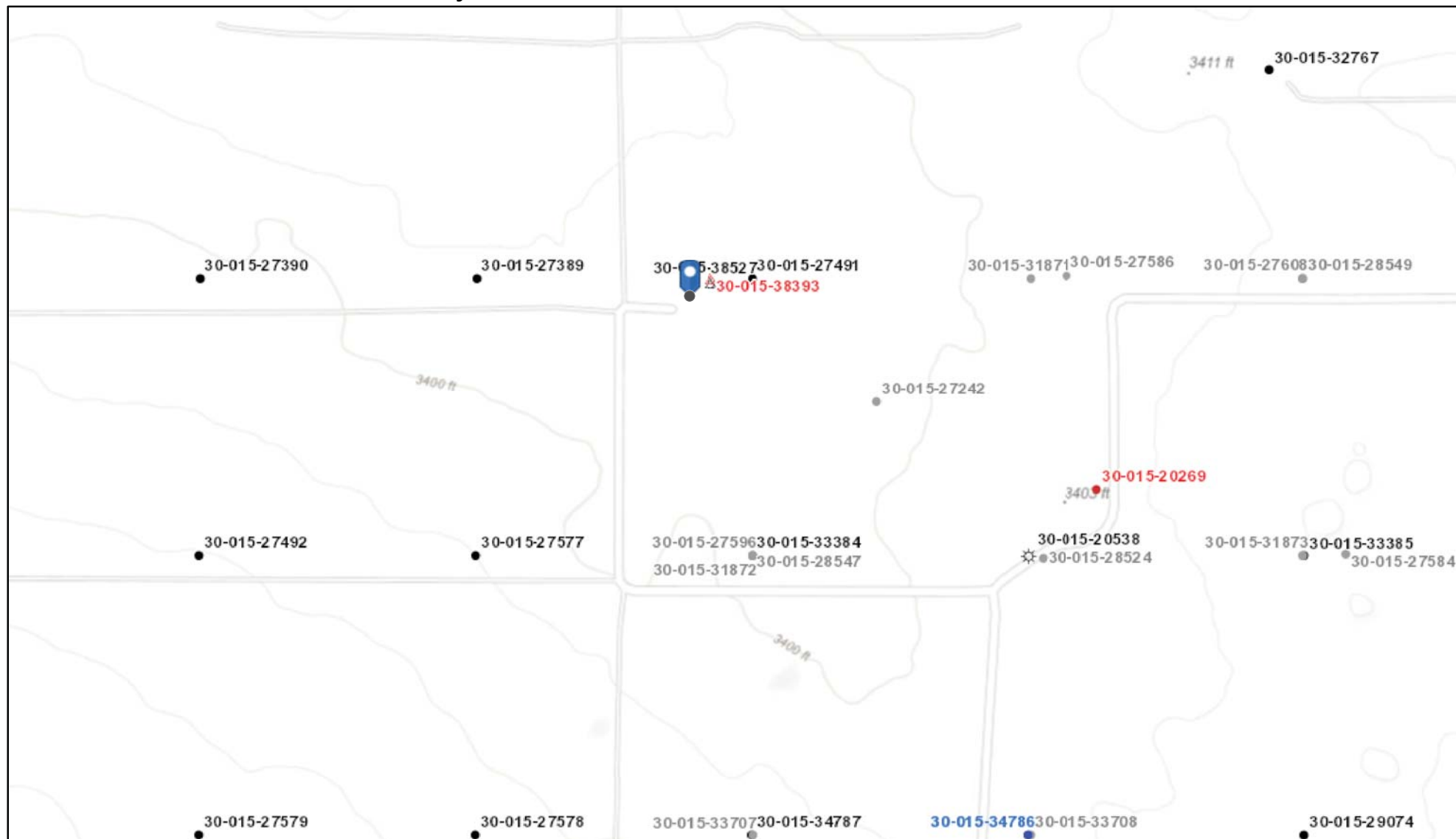


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2021-03-05 15:57:00 EST

0.34 0.29 nadww01

Oxy Sundance 4-32 SWD + 3,000 ft to h2o



2/4/2021, 1:32:53 PM

Wells - Large Scale

? undefined

* Miscellaneous

* CO2, Active

* CO2, Cancelled

* CO2, New

* CO2, Plugged

* CO2, Temporarily Abandoned

* Gas, Active

* Gas, Cancelled

* Gas, New

* Gas, Plugged

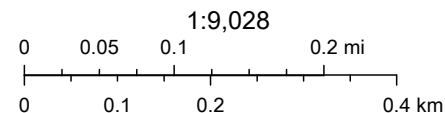
* Gas, Temporarily Abandoned

* Injection, Active

* Injection, Cancelled

* Injection, New

* Injection, Plugged



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD

New Mexico Oil Conservation Division



NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

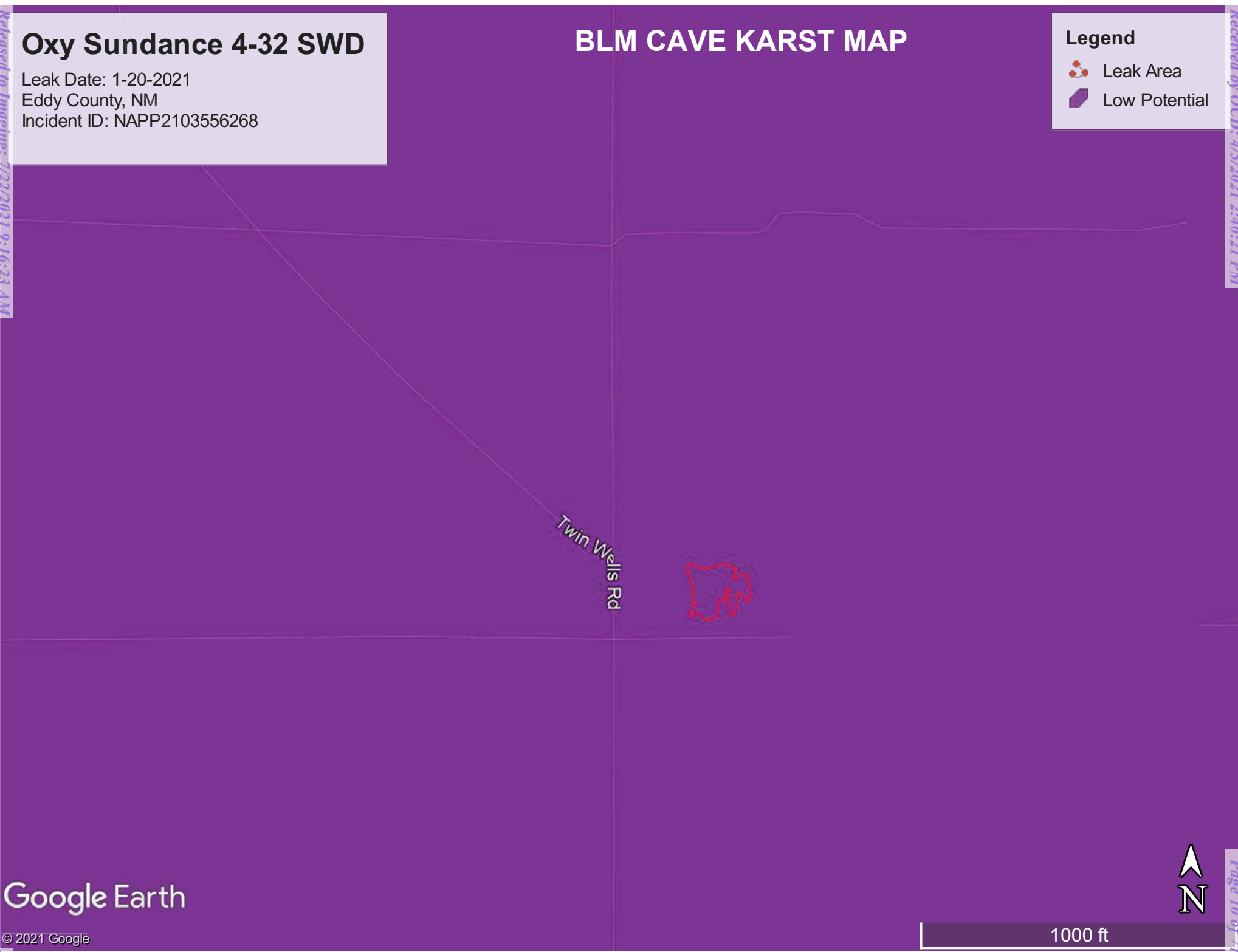
Oxy Sundance 4-32 SWD

Leak Date: 1-20-2021
Eddy County, NM
Incident ID: NAPP2103556268

BLM CAVE KARST MAP

Legend

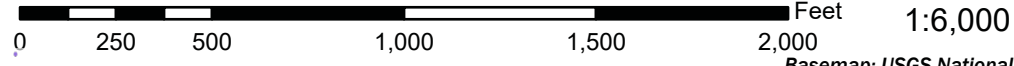
-  Leak Area
-  Low Potential



National Flood Hazard Layer FIRMette



103°47'43"W 32°15'21"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone K
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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 2/4/2021 at 3:34 PM 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.

Released to Imaging: 7/22/2021 9:16:23 AM

Received by OCD: 4/8/2021 2:40:21 PM

Laboratory Analytical Results Summary
Oxy, Sundance 4-32 SWD 1-20-21

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	3/1/21	3/1/21	3/1/21	3/1/21
			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	SM4500Cl-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

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	3/1/21	3/1/21	3/1/21	3/1/21	3/1/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		27200	4260	3360	256	176
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		5050	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		1440	<10.0	n/a	n/a	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	3/1/21	3/1/21	3/1/21
			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	SM4500Cl-B		68800	96.0	96.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		155	<10.0	n/a
EXT DRO	TPH 8015M		59.1	<10.0	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	3/1/21	3/1/21	3/1/21
			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	SM4500Cl-B		36000	112	112
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		1960	16.6	n/a
EXT DRO	TPH 8015M		669	14.2	n/a

Laboratory Analytical Results Summary
Oxy, Sundance 4-32 SWD 1-20-21

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	3/1/21	3/1/21	3/1/21
			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	SM4500Cl-B		79200	160	64.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		152	<10.0	n/a
EXT DRO	TPH 8015M		43.2	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	3/1/21	3/1/21	3/1/21
			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	SM4500Cl-B		20000	48.0	48.0
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		12800	<10.0	n/a
EXT DRO	TPH 8015M		2810	<10.0	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	3/2/21	3/2/21	3/2/21	3/3/21	3/4/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		64000	800	848	32.0	48.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	3/2/21	3/2/21	3/2/21	3/2/21	3/2/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		56800	1520	1340	1410	944
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		142	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		29.2	<10.0	n/a	n/a	n/a

Laboratory Analytical Results Summary
Oxy, Sundance 4-32 SWD 1-20-21

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	3/2/21	3/2/21	3/2/21
			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	SM4500Cl-B		16000	1960	912
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		6680	105	n/a
EXT DRO	TPH 8015M		1530	21.3	n/a

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'	SP9 @ 5'
Analyte	Method	Date	3/2/21	3/2/21	3/2/21	3/2/21	3/2/21	3/2/21
			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		0.336	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		0.336	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		7400	5440	5441	800	656	96.0
GRO	TPH 8015M		87.7	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		14800	25.2	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		3060	<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP10 @ Surface	SP10 @ 1'	SP10 @ 2'
Analyte	Method	Date	3/2/21	3/2/21	3/2/21
			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		0.237	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		11600	208	624
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		12900	<10.0	n/a
EXT DRO	TPH 8015M		2720	<10.0	n/a

		Sample ID	SP11 @ Surface	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	3/2/21	3/2/21	3/2/21	3/2/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		13500	544	736	352
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a
DRO	TPH 8015M		7920	<10.0	n/a	n/a
EXT DRO	TPH 8015M		1540	<10.0	n/a	n/a

Laboratory Analytical Results Summary
Oxy, Sundance 4-32 SWD 1-20-21

		Sample ID	SP12 @ Surface	SP12 @ 1'	SP12 @ 2'
Analyte	Method	Date	3/3/21	3/3/21	3/3/21
			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	SM4500Cl-B		3600	240	64.0
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		17200	10.8	n/a
EXT DRO	TPH 8015M		3740	<10.0	n/a

		Sample ID	SP13 @ Surface	SP13 @ 1'	SP13 @ 2'	SP13 @ 2'
Analyte	Method	Date	3/3/21	3/3/21	3/3/21	3/3/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		23200	4000	944	224
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a
DRO	TPH 8015M		10800	71.4	n/a	n/a
EXT DRO	TPH 8015M		2300	<10.0	n/a	n/a

		Sample ID	SP14 @ Surface	SP14 @ 1'	SP14 @ 2'
Analyte	Method	Date	3/3/21	3/3/21	3/3/21
			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	SM4500Cl-B		45600	48.0	144
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		13.2	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a



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

March 10, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 4-32 SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/05/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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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:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: N @ SURFACE (H210549-01)

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	03/08/2021	ND	2.12	106	2.00	2.44	
Toluene*	<0.050	0.050	03/08/2021	ND	2.12	106	2.00	1.80	
Ethylbenzene*	<0.050	0.050	03/08/2021	ND	2.08	104	2.00	2.90	
Total Xylenes*	<0.150	0.150	03/08/2021	ND	6.15	103	6.00	3.08	
Total BTEX	<0.300	0.300	03/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: E @ SURFACE (H210549-02)

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	03/08/2021	ND	2.12	106	2.00	2.44	
Toluene*	<0.050	0.050	03/08/2021	ND	2.12	106	2.00	1.80	
Ethylbenzene*	<0.050	0.050	03/08/2021	ND	2.08	104	2.00	2.90	
Total Xylenes*	<0.150	0.150	03/08/2021	ND	6.15	103	6.00	3.08	
Total BTEx	<0.300	0.300	03/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/09/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: W @ SURFACE (H210549-03)

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	03/08/2021	ND	2.12	106	2.00	2.44		
Toluene*	<0.050	0.050	03/08/2021	ND	2.12	106	2.00	1.80		
Ethylbenzene*	<0.050	0.050	03/08/2021	ND	2.08	104	2.00	2.90		
Total Xylenes*	<0.150	0.150	03/08/2021	ND	6.15	103	6.00	3.08		
Total BTEx	<0.300	0.300	03/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: S @ SURFACE (H210549-04)

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	03/08/2021	ND	2.12	106	2.00	2.44		
Toluene*	<0.050	0.050	03/08/2021	ND	2.12	106	2.00	1.80		
Ethylbenzene*	<0.050	0.050	03/08/2021	ND	2.08	104	2.00	2.90		
Total Xylenes*	<0.150	0.150	03/08/2021	ND	6.15	103	6.00	3.08		
Total BTEx	<0.300	0.300	03/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H210549-05)

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	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTEx	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	27200	16.0	03/09/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	5050	50.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	1440	50.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 265 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 1 @ 1' (H210549-06)

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	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTEx	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4260	16.0	03/09/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H210549-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	03/09/2021	ND	400	100	400	0.00	

Sample ID: SP 1 @ 3' (H210549-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/09/2021	ND	400	100	400	0.00	

Sample ID: SP 1 @ 4' (H210549-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/09/2021	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H210549-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTX	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	68800	16.0	03/09/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	155	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	59.1	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.3 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 2 @ 1' (H210549-11)

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	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTEx	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/09/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.3 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 2 @ 2' (H210549-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/09/2021	ND	400	100	400	0.00		

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

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H210549-13)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTX	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	03/09/2021	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	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	1960	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	669	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 151 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 3 @ 1' (H210549-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/09/2021	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	03/08/2021	ND	203	101	200	6.96	
DRO >C10-C28*	16.6	10.0	03/08/2021	ND	222	111	200	6.04	
EXT DRO >C28-C36	14.2	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.6 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 3 @ 2' (H210549-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/09/2021	ND	416	104	400	0.00		

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

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 4 @ SURFACE (H210549-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTX	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	79200	16.0	03/09/2021	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	03/08/2021	ND	213	106	200	6.98	QR-03
DRO >C10-C28*	152	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	43.2	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 4 @ 1' (H210549-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTEx	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/09/2021	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	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.0 % 42.2-156

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Analytical Results For:

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

Received: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2' (H210549-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/09/2021	ND	416	104	400	0.00	

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Analytical Results For:

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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 5 @ SURFACE (H210549-19)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTX	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	03/09/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	12800	50.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	2810	50.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 673 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 1' (H210549-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2021	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	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.6 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/01/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 5 @ 2' (H210549-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2021	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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 6 @ SURFACE (H210549-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTEx	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64000	16.0	03/09/2021	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	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.2 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 6 @ 1' (H210549-23)

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	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTEX	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/09/2021	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	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.2 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 6 @ 2' (H210549-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/09/2021	ND	416	104	400	0.00	

Sample ID: SP 6 @ 3' (H210549-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2021	ND	416	104	400	0.00	

Sample ID: SP 6 @ 4' (H210549-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2021	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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 7 @ SURFACE (H210549-27)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	56800	16.0	03/09/2021	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	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	142	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	29.2	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 67.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.7 % 42.2-156

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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: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 1' (H210549-28)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTEX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	03/09/2021	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	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.4 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 7 @ 2' (H210549-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	03/09/2021	ND	416	104	400	0.00		

Sample ID: SP 7 @ 3' (H210549-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	03/09/2021	ND	416	104	400	0.00	

Sample ID: SP 7 @ 4' (H210549-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	03/09/2021	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: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ SURFACE (H210549-32)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	03/09/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	6680	50.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	1530	50.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 404 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 8 @ 1' (H210549-33)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTX	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	03/10/2021	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	105	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	21.3	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.7 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 8 @ 2' (H210549-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	03/10/2021	ND	432	108	400	3.77		

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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: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 9 @ SURFACE (H210549-35)

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	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	0.336	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTEX	0.336	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7400	16.0	03/10/2021	ND	432	108	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	87.7	50.0	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	14800	50.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	3060	50.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 145 % 44.3-144

Surrogate: 1-Chlorooctadecane 706 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 9 @ 1' (H210549-36)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.72	
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/10/2021	ND	432	108	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	03/08/2021	ND	213	106	200	6.98	
DRO >C10-C28*	25.2	10.0	03/08/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.5 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 9 @ 2' (H210549-37)

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	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTEx	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	03/10/2021	ND	432	108	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	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 9 @ 3' (H210549-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/10/2021	ND	432	108	400	3.77		

Sample ID: SP 9 @ 4' (H210549-39)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	03/10/2021	ND	432	108	400	3.77		

Sample ID: SP 9 @ 5' (H210549-40)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/10/2021	ND	432	108	400	3.77	

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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 10 @ SURFACE (H210549-41)

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	03/09/2021	ND	2.04	102	2.00	3.72		
Toluene*	<0.050	0.050	03/09/2021	ND	2.04	102	2.00	3.75		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	1.99	99.7	2.00	3.72		
Total Xylenes*	0.237	0.150	03/09/2021	ND	5.85	97.5	6.00	3.63		
Total BTEX	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	03/10/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	12900	50.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	2720	50.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 638 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 10 @ 1' (H210549-42)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.07	103	2.00	1.71	
Toluene*	<0.050	0.050	03/09/2021	ND	2.09	104	2.00	1.29	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.04	101	6.00	1.69	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/10/2021	ND	432	108	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	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.4 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 10 @ 2' (H210549-43)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	03/10/2021	ND	432	108	400	3.77		

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 11 @ SURFACE (H210549-44)

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	03/09/2021	ND	2.07	103	2.00	1.71	
Toluene*	<0.050	0.050	03/09/2021	ND	2.09	104	2.00	1.29	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.04	101	6.00	1.69	
Total BTEx	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13500	16.0	03/10/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	7920	50.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	1540	50.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 420 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 11 @ 1' (H210549-45)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.07	103	2.00	1.71	
Toluene*	<0.050	0.050	03/09/2021	ND	2.09	104	2.00	1.29	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.04	101	6.00	1.69	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/10/2021	ND	432	108	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	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.5 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/02/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 11 @ 2' (H210549-46)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	03/10/2021	ND	432	108	400	3.77	

Sample ID: SP 11 @ 3' (H210549-47)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/10/2021	ND	432	108	400	3.77		

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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: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 12 @ SURFACE (H210549-48)

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	03/09/2021	ND	2.07	103	2.00	1.71	
Toluene*	<0.050	0.050	03/09/2021	ND	2.09	104	2.00	1.29	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.04	101	6.00	1.69	
Total BTEx	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	03/10/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	03/09/2021	ND	213	106	200	6.98		
DRO >C10-C28*	17200	50.0	03/09/2021	ND	227	113	200	2.57		
EXT DRO >C28-C36	3740	50.0	03/09/2021	ND						

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 1260 % 42.2-156

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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: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 12 @ 1' (H210549-49)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.07	103	2.00	1.71	
Toluene*	<0.050	0.050	03/09/2021	ND	2.09	104	2.00	1.29	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.04	101	6.00	1.69	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/10/2021	ND	432	108	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	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	10.8	10.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.6 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/03/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 12 @ 2' (H210549-50)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/10/2021	ND	432	108	400	3.77		

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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:	03/05/2021	Sampling Date:	03/03/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 13 @ SURFACE (H210549-51)

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	03/09/2021	ND	2.07	103	2.00	1.71	
Toluene*	<0.050	0.050	03/09/2021	ND	2.09	104	2.00	1.29	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.04	101	6.00	1.69	
Total BTEx	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23200	16.0	03/10/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/09/2021	ND	213	106	200	6.98	
DRO >C10-C28*	10800	50.0	03/09/2021	ND	227	113	200	2.57	
EXT DRO >C28-C36	2300	50.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 553 % 42.2-156

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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: 03/05/2021
 Reported: 03/10/2021
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 13 @ 1' (H210549-52)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	2.07	103	2.00	1.71	
Toluene*	<0.050	0.050	03/09/2021	ND	2.09	104	2.00	1.29	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.04	101	6.00	1.69	
Total BTX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/10/2021	ND	432	108	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	03/08/2021	ND	201	101	200	2.56	
DRO >C10-C28*	71.4	10.0	03/08/2021	ND	233	117	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.2 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/03/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 13 @ 2' (H210549-53)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	03/10/2021	ND	416	104	400	3.92	QM-07	

Sample ID: SP 13 @ 3' (H210549-54)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/10/2021	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:	03/05/2021	Sampling Date:	03/03/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 14 @ SURFACE (H210549-55)

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	03/09/2021	ND	1.94	96.9	2.00	3.83		
Toluene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.60		
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	2.20		
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.44	107	6.00	2.14		
Total BTEx	<0.300	0.300	03/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	45600	16.0	03/10/2021	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	03/08/2021	ND	201	101	200	2.56	
DRO >C10-C28*	13.2	10.0	03/08/2021	ND	233	117	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.1 % 42.2-156

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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:	03/05/2021	Sampling Date:	03/03/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 14 @ 1' (H210549-56)

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	03/09/2021	ND	1.94	96.9	2.00	3.83	
Toluene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.60	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.44	107	6.00	2.14	
Total BTEx	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/10/2021	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	03/08/2021	ND	201	101	200	2.56	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	233	117	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.7 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/05/2021	Sampling Date:	03/03/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: SP 14 @ 2' (H210549-57)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/10/2021	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(1 of 6)

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:																					
Address: P.O. Box 805				Company: OXY																					
City: Hobbs State: NM Zip: 88241				Attn: WADE																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner: Oxy				City:																					
Project Name: Sundance 4-32 SWD (1-20-21)				State: Zip:																					
Project Location: Eddy County, NM				Phone #:																					
Sampler Name: Simon Rendon				Fax #:																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT							
H210549																									
1	N @ Surface	G	I										3/1/21		✓	✓	✓								
2	E @ Surface												3/1/21		✓	✓	✓								
3	W @ Surface												3/1/21		✓	✓	✓								
4	S @ Surface												3/1/21		✓	✓	✓								
5	SP1 @ Surface												3/1/21		✓	✓	✓								
6	SP1 @ 1'												3/1/21		✓	✓	✓								
7	SP1 @ 2'												3/1/21		✓										
8	SP1 @ 3'												3/1/21		✓										
9	SP1 @ 4'												3/1/21		✓										
10	SP2 @ Surface												3/1/21		✓	✓	✓								

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Relinquished By:	Date: 3-5-21 Time: 8:00 AM	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 3-5-21 Time: 4:00 PM	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	0.8°C #113	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		
		CHECKED BY: (Initials)		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(2 of 6)

Page 51 of 55

Company Name: BBC International, Inc.										BILL TO										ANALYSIS REQUEST																							
Project Manager: Cliff Brunson										P.O. #:																																	
Address: P.O. Box 805										Company: OXY																																	
City: Hobbs State: NM Zip: 88241										Attn: WADE																																	
Phone #: 575-397-6388 Fax #: 575-397-0397										Address:																																	
Project #: Project Owner: Oxy										City:																																	
Project Name: Sundance 4-32 SWD (1-20-21)										State: Zip:																																	
Project Location: Eddy County, NM										Phone #:																																	
Sampler Name: Simon Rendon										Fax #:																																	
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.								(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		CL		BTX		TPH		EXT	
H210549										G		I																															
11		SP2 @ 1'																																									
12		SP2 @ 2'																																									
13		SP3 @ Surface																																									
14		SP3 @ 1'																																									
15		SP3 @ 2'																																									
16		SP4 @ Surface																																									
17		SP4 @ 1'																																									
18		SP4 @ 2'																																									
19		SP5 @ Surface																																									
20		SP5 @ 1'																																									

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Relinquished By: <i>Simon Rendon</i>		Date: 3-5-21 Time: 8:00 AM		Received By: <i>Israel Penn</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: <i>Israel Penn</i>		Date: 3-5-21 Time: 4:00 PM		Received By: <i>Guerra Odeker</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>6.8c #113</i>						Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <i>T.O.</i>	
REMARKS:									

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

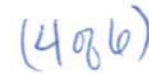
(306)

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company: OXY																							
City: Hobbs		State: NM Zip: 88241		Attn: WADE																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																							
Project #:		Project Owner: Oxy		City:																							
Project Name: Sundance 4-32 SWD (1-20-21)				State: Zip:																							
Project Location: Eddy County, NM				Phone #:																							
Sampler Name: Simon Rendon				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME		CL BTEX TPH EXT											
H210549				G		I																					
21		SP5 @ 2'												3/11/21 2:54 PM		✓											
22		SP6 @ Surface												3/12/21 8:50 AM		✓ ✓ ✓											
23		SP6 @ 1'												3/12/21 9:02 AM		✓ ✓ ✓											
24		SP6 @ 2'												3/12/21 9:17 AM		✓											
25		SP6 @ 3'												3/12/21 9:30 AM		✓											
26		SP6 @ 4'												3/12/21 9:38 AM		✓											
27		SP7 @ Surface												3/12/21 9:51 AM		✓ ✓ ✓											
28		SP7 @ 1'												3/12/21 10:07 AM		✓ ✓ ✓											
29		SP7 @ 2'												3/12/21 10:18 AM		✓											
30		SP7 @ 3'												3/12/21 10:31 AM		✓											

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Relinquished By: <i>Simon Rendon</i>		Date: 3-5-21	Received By: <i>Israel Pena</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 8:00 PM					Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Israel Pena</i>		Date: 3-5-21	Received By: <i>Isabella Aldrete</i>		REMARKS:			
Time: 4:00 PM								
Delivered By: (Circle One)								
Sampler - UPS - Bus - Other: <i>0.8°C #113</i>		Sample Condition Cool Intact		CHECKED BY: (Initials)				
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<i>TO</i>				

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(5 of 6)

Page 54 of 55

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST													
Project Manager: Cliff Brunson				P.O. #:																									
Address: P.O. Box 805				Company: OXY																									
City: Hobbs		State: NM Zip: 88241		Attn: WADE																									
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																									
Project #:		Project Owner: Oxy		City:																									
Project Name: Sundance 4-32 SWD (1-20-21)		State: Zip:		Phone #:																									
Project Location: Eddy County, NM				Fax #:																									
Sampler Name: Simon Rendon																													
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS)		MATRIX			PRESERV.			SAMPLING																	
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :			ACID/BASE: ICE / COOL OTHER :			DATE TIME		CL		BTX		TPH EXT											
H210549				G I								3/2/21 1:32pm		✓		✓		✓											
41 SP10 @ Surface				↓ ↓								3/2/21 1:45pm		✓		✓		✓											
42 SP10 @ 1'												3/2/21 2:04pm		✓															
43 SP10 @ 2'												3/2/21 2:27pm		✓		✓		✓											
44 SP11 @ Surface												3/2/21 2:40pm		✓		✓		✓											
45 SP11 @ 1'												3/2/21 2:52pm		✓															
46 SP11 @ 2'												3/2/21 3:06pm		✓															
47 SP11 @ 3'												3/3/21 9:05 AM		✓		✓		✓											
48 SP12 @ Surface												3/3/21 9:17 AM		✓		✓		✓											
49 SP12 @ 1'												3/3/21 9:31 AM		✓															
50 SP12 @ 2'																													

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Relinquished By:	Date: 3-5-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Simon Rendon</i>	Time: 8:00 AM	<i>Israel Pena</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 3-5-21	Received By:	REMARKS:	
<i>Israel Pena</i>	Time: 4:00 PM	<i>Jamara Delgado</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>J.D.</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(6 of 6)

Page 55 of 55

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: Sundance 4-32 SWD (1-20-21) Project Location: Eddy County, NM Sampler Name: Simon Rendon				BILL TO P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE ICE / COOL OTHER:				SAMPLING DATE TIME				CL BTEX TPH EXT											
Lab I.D. H210549		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE ICE / COOL OTHER:		DATE TIME		CL BTEX TPH EXT															
SP13 @ Surface				G		I				3-3-21 9:47 AM		✓															
SP13 @ 1'				✓		✓				3-3-21 10:07 AM		✓															
SP13 @ 2'				✓		✓				3-3-21 10:34 AM		✓															
SP13 @ 3'				✓		✓				3-3-21 10:46 AM		✓															
SP14 @ Surface				✓		✓				3-3-21 11:04 AM		✓															
SP14 @ 1'				✓		✓				3-3-21 11:16 AM		✓															
SP14 @ 2'				✓		✓				3-3-21 11:30 AM		✓															

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Relinquished By: Simon Rendon Date: 3-5-21 Time: 8:00 PM		Received By: Israel Pena Date: 3-5-21 Time: 4:00 PM		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:	
Relinquished By: Israel Pena Date: 3-5-21 Time: 4:00 PM		Received By: Israel Pena Date: 3-5-21 Time: 4:00 PM		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:	
Delivered By: (Circle One) UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) TO	

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District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 22891

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 22891
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.	7/22/2021