



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 WORKPLAN

COG – LYCHEE BWS STATE COM #001H (Leak Date: 5/26/18) RP # 1RP-5077

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-5077.

The following information includes:

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

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

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP5 (PINK shade on diagram) will be excavated to a depth of 1.5 feet. The leak area near SP6 – SP8 (BLUE shade on diagram) will be excavated to a depth of 2.5 feet. The YELLOW shaded area inside the lined facility is requested to be deferred until the decommissioning of the facility. SP1 – SP3 were sampled through the liner. Further delineation is not possible due to the production equipment and piping preventing access unless the facility is decommissioned. When the release occurred the pressure from the ruptured line punctured the liner causing produced water to remain under the liner and then allowed fluids to escape outside of the lined facility onto the pad and into the pasture.

Sidewall and bottom confirmation samples will be collected at no greater than 50 ft. intervals for the excavated areas. Estimated volume of material to be removed is 80 cubic yards. The remediation will be completed within 90 days of plan approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

ENVIRONMENTAL CONSULTING AND REMEDIATION SERVICES
HOBBS, NEW MEXICO • WEBSITE: www.bbcinternational.com • HOUSTON, TEXAS

Incident ID	
District RP	1RP-5077
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?	100-125 (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 checked="" 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 1/2-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.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5077
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: Rebecca HaskellTitle: Senior HSE CoordinatorSignature: Rebecca HaskellDate: 2/21/19email: rhaskell@concho.comTelephone: (432) 683-7443**OCD Only**

Received by: _____

Date: _____

Incident ID	
District RP	1RP-5077
Facility ID	
Application ID	

Remediation Plan


Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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: Rebecca Haskell Title: Senior HSE Coordinator
Signature:  Date: 2/21/19
email: rhaskell@concho.com Telephone: (432) 683-7443

OCD Only

Received by: _____ Date: _____


- ☐ Approved ☒ **Remediation Plan Approved with COAs** ☐ Denied ☒ **Deferral Denied**
☐ Approved with Attached Conditions of Approval ☐ ~~Deferral Approved~~


Signature:  Date: 11/28/2022


COG, Lychee BWS State Com #1H


Leak date: 05/26/18
Lea County, NM
API# 30-015-42445
1RP-5077


Legend


 1.5 ft Excavation


 2.5 ft Excavation


 Cardinal sample points, Leak area 1


 Cardinal sample points, Leak area 2

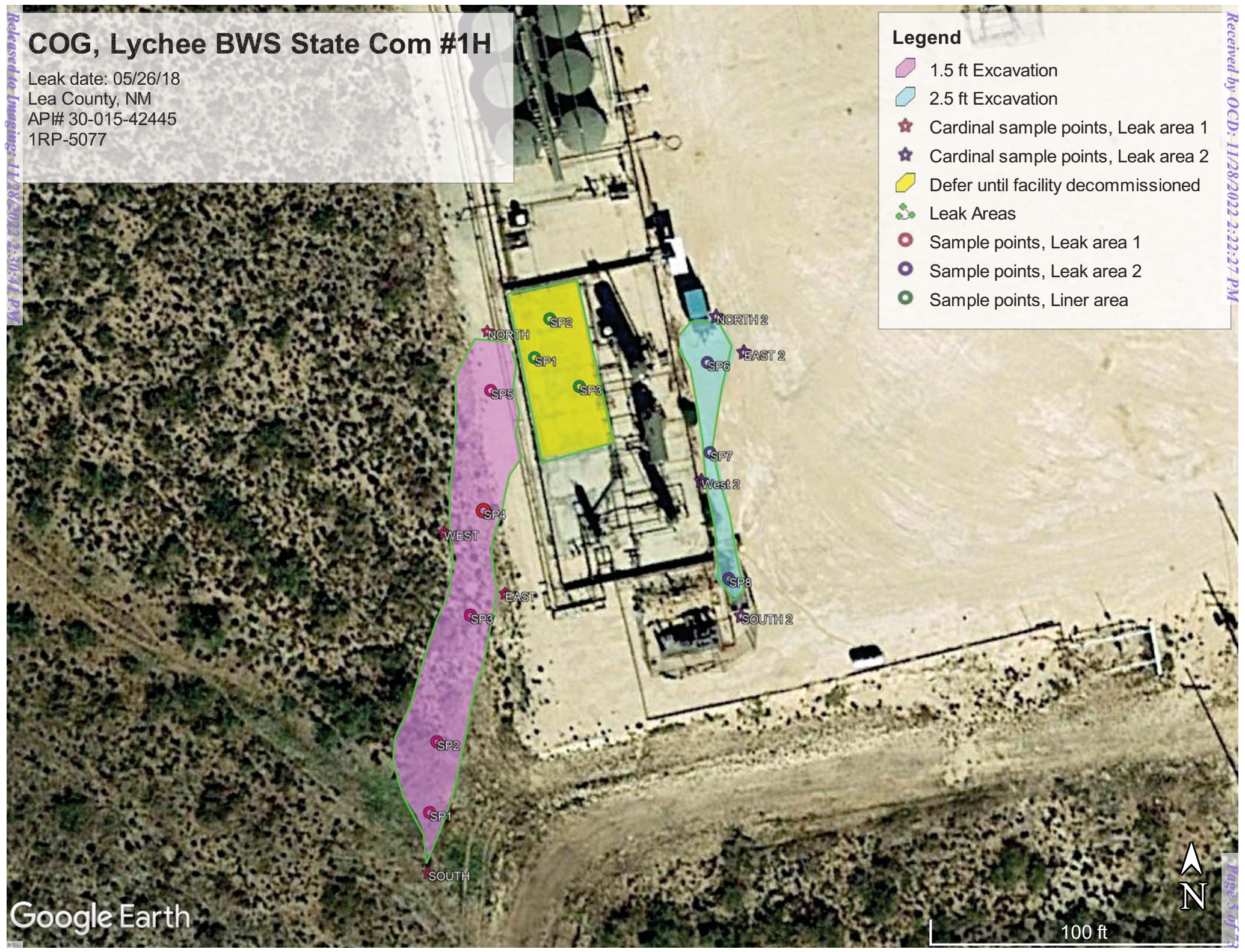
 Defer until facility decommissioned

 Leak Areas

 Sample points, Leak area 1

 Sample points, Leak area 2

 Sample points, Liner area



COG, Lychee BWS State Com #1H

Sample points, Leak area 1

SP1, N 32.45703 W-103.45624

SP2, N 32.45709 W-103.45623

SP3, N 32.45720 W-103.45620

SP4, N 32.45730 W-103.45619

SP5, N 32.45740 W-103.45618

NORTH, N 32.45746 W-103.45618

SOUTH, N 32.45697 W-103.45624

EAST, N 32.45722 W-103.45616

WEST, N 32.45728 W-103.45623

Sample points, Leak area 2

SP6, N 32.45743 W-103.45595

SP7, N 32.45735 W-103.45595

SP8, N 32.45723 W-103.45593

NORTH 2, N 32.45747 W-103.45594

SOUTH 2, N 32.45720 W-103.45591

EAST 2, N 32.45744 W-103.45591

WEST 2, N 32.45732 W-103.45595

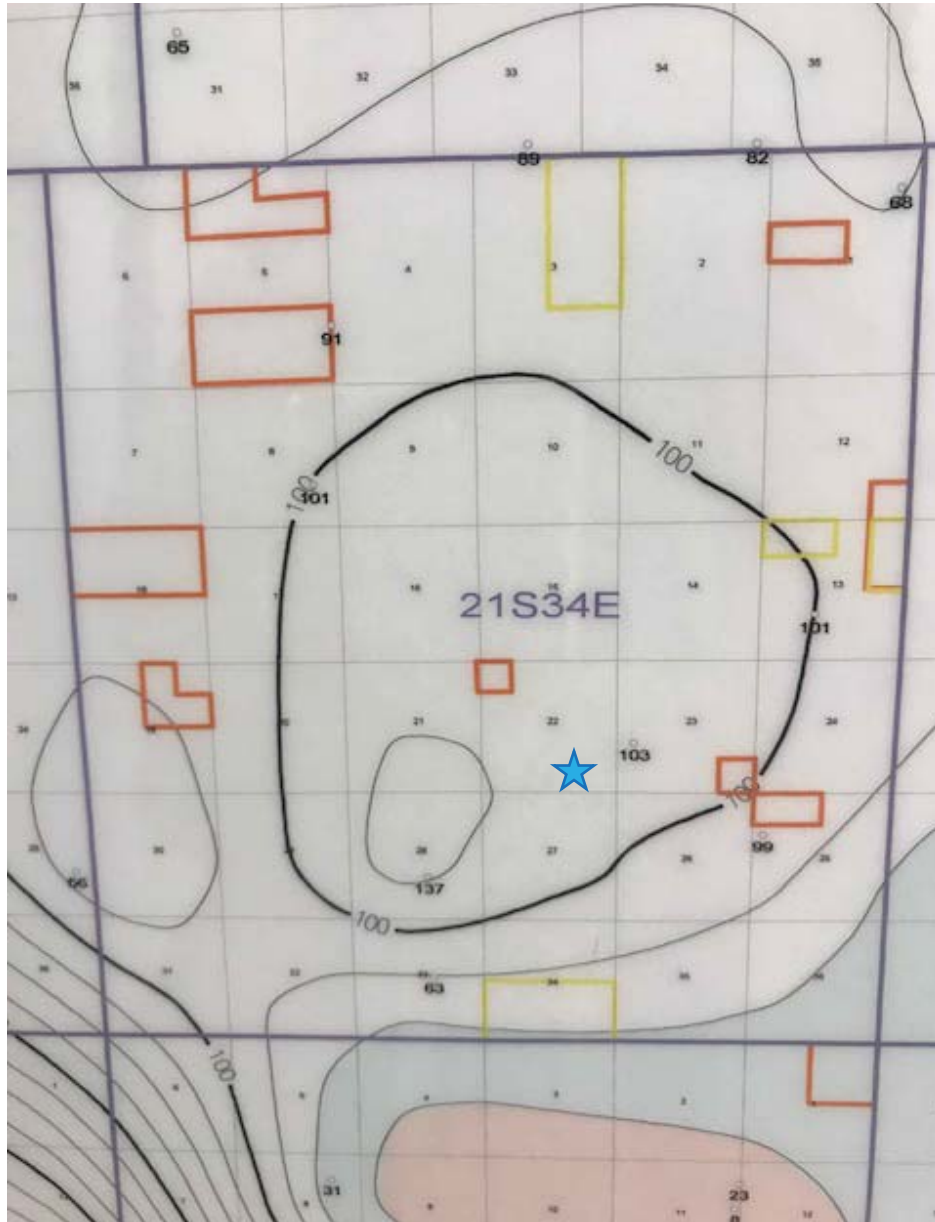
Sample points, Liner area


SP1, N 32.45743 W-103.45613

SP2, N 32.45747 W-103.45612

SP3, N 32.45741 W-103.45609

COG, Lychee BWS State Com #001H
U/L O, Section 22, T21S, R34E
Groundwater: 100'



 National Water Information System: Web Interface USGS Water Resources	Date Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? USGS Home Contact USGS Water-level accuracy Search USGS	?	
Data Category: <input type="text" value="Groundwater"/>					Geographic Area: <input type="text" value="New Mexico"/>			<input type="button" value="GO"/>

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322738103263701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 322738103263701 21S.34E.23.31000

Lea County, New Mexico

Latitude 32°27'45.6", Longitude 103°26'49.4" NAD83

Land-surface elevation 3,715 feet above NAVD88

The depth of the well is 5,390 feet below land surface.

This well is completed in the Capitan Limestone (313CPTN) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurment
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1967-02-01		D	1030.70			2			U	
1977-01-12		D	1166.27			2			R	USGS
1978-01-01		D	1157.64			2			R	USGS
2012-11-27	13:50 MST	m	804.26			2			T	USGS
2013-06-24	12:30 MDT	m	798.30			2			T	USGS
2013-09-09	11:40 MDT	m	795.63			2			T	USGS
2013-12-02	11:50 MST	m	794.47			2			T	USGS
2014-03-17	11:15 MDT	m	793.54			2			T	USGS
2014-06-30	11:45 MDT	m	788.44			2			T	USGS
2014-09-29	12:00 MDT	m	789.06			2			T	USGS
2014-12-01	11:05 MST	m	787.57			2			T	USGS
2015-03-26	11:20 MDT	m	785.16			2			T	USGS
2015-05-18	11:45 MDT	m	783.57			2			T	USGS
2015-09-28	11:30 MDT	m	777.91			2			T	USGS
2015-12-01	11:25 MST	m	776.12			2			T	USGS
2016-03-21	12:15 MDT	m	774.03			2			T	USGS
2016-06-26	12:10 MDT	m	775.92			2			T	USGS
2016-09-21	10:50 MST	m	774.99			2			T	USGS

Date	Time	?	Water level, feet	Explanation	Water level, feet	Referenced vertical datum	?	?
Section		Water-level date-time accuracy	Water level, feet	Explanation	Water level, feet	Referenced vertical datum	Water-level accuracy	?
Water-level date-time accuracy		D	below land surface	Date is accurate to the Day	above specific vertical datum			S
Water-level date-time accuracy		m		Date is accurate to the Minute				
Water-level accuracy		2		Water level accuracy to nearest hundredth of a foot				
Status				The reported water-level measurement represents a static level				
Method of measurement		R		Reported, method not known.				
Method of measurement		T		Electric-tape measurement.				
Method of measurement		U		Unknown method.				
Measuring agency				Not determined				
Measuring agency		USGS		U.S. Geological Survey				
Source of measurement		S		Measured by personnel of reporting agency.				
Source of measurement		U		Source is unknown.				
Water-level approval status		A		Approved for publication -- Processing and review completed.				
Water-level approval status		P		Provisional data subject to revision.				

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Title: Groundwater for New Mexico: Water Levels

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



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

Page Last Modified: 2019-02-06 16:42:28 EST



1.65 0.6 nadww01

COG, Lychee BWS State Com #1H

Leak date: 05/26/18
Lea County, NM
AP# 30-025-42445
2RP-5077

BLM CAVE KARST MAP

Legend

-  High
-  Low potential

P1

30

Google Earth

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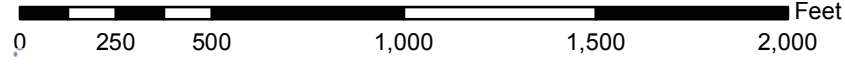


1000 ft

National Flood Hazard Layer FIRMMette



32°27'36.49"N



1:6,000

32°27'6.13"N

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 X
		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		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 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 2/6/2019 at 5:00:29 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.

Received by Imaging: 11/28/2022 2:30:41 PM
Map: 5WLE009

Received by OCD: 11/28/2022 2:22:27 PM

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.998	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		1.32	0.175	<0.050	n/a
Total Xylenes	BTEX 8021B		1.34	0.35	<0.150	n/a
Total BTEX	BTEX 8021B		6.66	0.526	<0.300	n/a
Chloride	SM4500Cl-B		2200	96	32	176
GRO	TPH 8015M		187	36.9	<10.0	n/a
DRO	TPH 8015M		35000	1470	<10.0	n/a
EXT DRO	TPH 8015M		7650	238	<10.0	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.773	0.083	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.992	0.362	<0.050	n/a
Total Xylenes	BTEX 8021B		3.73	0.769	<0.150	n/a
Total BTEX	BTEX 8021B		5.49	1.21	<0.300	n/a
Chloride	SM4500Cl-B		3200	128	32	160
GRO	TPH 8015M		148	96.2	<10.0	n/a
DRO	TPH 8015M		41100	3210	30.4	n/a
EXT DRO	TPH 8015M		8990	503	<10.0	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.378	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.654	0.246	<0.050	n/a
Total Xylenes	BTEX 8021B		2.49	0.62	<0.150	n/a
Total BTEX	BTEX 8021B		3.52	0.866	<0.300	n/a
Chloride	SM4500Cl-B		1920	112	16	176
GRO	TPH 8015M		108	36.3	<10.0	n/a
DRO	TPH 8015M		34200	2330	20.1	n/a
EXT DRO	TPH 8015M		8510	387	<10.0	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.646	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.926	0.254	<0.050	n/a
Total Xylenes	BTEX 8021B		3.55	0.564	<0.150	n/a
Total BTEX	BTEX 8021B		5.12	0.818	<0.300	n/a
Chloride	SM4500Cl-B		2200	96	32	160
GRO	TPH 8015M		141	61.6	<10.0	n/a
DRO	TPH 8015M		42000	2400	29.3	n/a
EXT DRO	TPH 8015M		9440	389	<10.0	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	7/6/18	7/6/18	7/6/18	7/6/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.407	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.643	0.305	<0.050	n/a
Total Xylenes	BTEX 8021B		2.68	0.647	<0.150	n/a
Total BTEX	BTEX 8021B		3.73	0.953	<0.300	n/a
Chloride	SM4500Cl-B		1460	96	16	160
GRO	TPH 8015M		129	55.4	<10.0	n/a
DRO	TPH 8015M		43700	2460	37.8	n/a
EXT DRO	TPH 8015M		9720	390	11.7	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.200	<0.050	n/a
Toluene	BTEX 8021B		0.988	0.443	0.061	n/a
Ethylbenzene	BTEX 8021B		2.12	2.08	0.38	n/a
Total Xylenes	BTEX 8021B		8.56	4.8	1.43	n/a
Total BTEX	BTEX 8021B		11.7	7.33	1.87	n/a
Chloride	SM4500Cl-B		7600	2200	1230	80
GRO	TPH 8015M		202	377	64.5	n/a
DRO	TPH 8015M		17500	4770	1260	n/a
EXT DRO	TPH 8015M		3510	691	188	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.200	<0.050	n/a
Toluene	BTEX 8021B		1.23	0.638	<0.050	n/a
Ethylbenzene	BTEX 8021B		1.67	3.64	0.226	n/a
Total Xylenes	BTEX 8021B		7.29	12.6	0.853	n/a
Total BTEX	BTEX 8021B		10.2	16.9	1.08	n/a
Chloride	SM4500Cl-B		13300	2200	1250	96
GRO	TPH 8015M		150	433	47.4	n/a
DRO	TPH 8015M		18000	4470	1430	n/a
EXT DRO	TPH 8015M		3580	653	238	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.998	0.526	0.066	n/a
Ethylbenzene	BTEX 8021B		1.29	3.21	0.325	n/a
Total Xylenes	BTEX 8021B		6.12	10.5	0.716	n/a
Total BTEX	BTEX 8021B		8.41	14.2	1.11	n/a
Chloride	SM4500Cl-B		15000	2360	1300	96
GRO	TPH 8015M		133	488	60.8	n/a
DRO	TPH 8015M		17900	5220	1490	n/a
EXT DRO	TPH 8015M		3560	740	229	n/a

CARDINAL		Sample ID	NORTH	EAST	WEST	SOUTH
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			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		160	128	128	176
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

CARDINAL		Sample ID	NORTH 2	EAST 2	WEST 2	SOUTH 2
Analyte	Method	Date	7/9/18	7/9/18	7/9/18	7/9/18
			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		80	80	96	112
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

LINER SAMPLING		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	12/5/18	12/5/18	12/5/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.237	<0.050	<0.050
Toluene	BTEX 8021B		5.36	0.115	0.176
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		16.6	0.666	0.958
Total BTEX	BTEX 8021B		22.2	0.78	1.13
Chloride	SM4500Cl-B		1040	3000	912
GRO	TPH 8015M		462	22.4	31.1
DRO	TPH 8015M		3540	379	814
EXT DRO	TPH 8015M		619	92.7	166

LINER SAMPLING		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	12/5/18	12/5/18	12/5/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	2.91	<0.050
Toluene	BTEX 8021B		15.7	60.8	1.12
Ethylbenzene	BTEX 8021B		12.8	45.7	1.66
Total Xylenes	BTEX 8021B		59.2	121	6.57
Total BTEX	BTEX 8021B		87.7	230	9.36
Chloride	SM4500Cl-B		3200	3600	2720
GRO	TPH 8015M		977	1380	153
DRO	TPH 8015M		6010	5730	1780
EXT DRO	TPH 8015M		957	866	331

LINER SAMPLING		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	12/5/18	12/5/18	12/5/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		3.04	0.672	0.122
Toluene	BTEX 8021B		28.2	23.7	5.53
Ethylbenzene	BTEX 8021B		12.2	21.3	7.64
Total Xylenes	BTEX 8021B		57.4	88.3	28.2
Total BTEX	BTEX 8021B		101	134	41.5
Chloride	SM4500Cl-B		5040	3480	4400
GRO	TPH 8015M		1670	1240	562
DRO	TPH 8015M		11800	5510	3790
EXT DRO	TPH 8015M		2020	820	605



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

July 20, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LYCHEE BWS STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 07/13/18 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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



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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ SURFACE (H801916-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	0.998	0.100	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	1.32	0.100	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	4.34	0.300	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTX	6.66	0.600	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	400	100	400	3.92	

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*	187	100	07/16/2018	ND	200	100	200	4.52		
DRO >C10-C28*	35000	100	07/16/2018	ND	174	86.8	200	19.0		
EXT DRO >C28-C36	7650	100	07/16/2018	ND						

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 2100 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ 1' (H801916-02)

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	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	<0.050	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	0.175	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	0.350	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTEX	0.526	0.300	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	36.9	10.0	07/16/2018	ND	200	100	200	4.52		
DRO >C10-C28*	1470	10.0	07/16/2018	ND	174	86.8	200	19.0		
EXT DRO >C28-C36	238	10.0	07/16/2018	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 155 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ 2' (H801916-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2018	ND	1.89	94.4	2.00	0.871		
Toluene*	<0.050	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206		
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52		
Total Xylenes*	<0.150	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24		
Total BTX	<0.300	0.300	07/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 @ 3' (H801916-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/17/2018	ND	400	100	400	3.92		

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ SURFACE (H801916-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	0.773	0.100	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	0.992	0.100	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	3.73	0.300	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTX	5.49	0.600	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	07/17/2018	ND	400	100	400	3.92		

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*	148	100	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	41100	100	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	8990	100	07/16/2018	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 2330 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ 1' (H801916-06)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	1.89	94.4	2.00	0.871	
Toluene*	0.083	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206	
Ethylbenzene*	0.362	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52	
Total Xylenes*	0.769	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24	
Total BTX	1.21	0.300	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/17/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	96.2	10.0	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	3210	10.0	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	503	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 225 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ 2' (H801916-07)

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	07/17/2018	ND	1.89	94.4	2.00	0.871		
Toluene*	<0.050	0.050	07/17/2018	ND	1.83	91.7	2.00	0.206		
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	1.84	92.2	2.00	1.52		
Total Xylenes*	<0.150	0.150	07/17/2018	ND	5.72	95.3	6.00	1.24		
Total BTEx	<0.300	0.300	07/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	200	100	200	4.52	
DRO >C10-C28*	30.4	10.0	07/16/2018	ND	174	86.8	200	19.0	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 2 @ 3' (H801916-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/17/2018	ND	400	100	400	3.92		

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ SURFACE (H801916-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43		
Toluene*	0.378	0.050	07/17/2018	ND	2.18	109	2.00	3.05		
Ethylbenzene*	0.654	0.050	07/17/2018	ND	2.13	106	2.00	2.18		
Total Xylenes*	2.49	0.150	07/17/2018	ND	6.55	109	6.00	2.02		
Total BTEx	3.52	0.300	07/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/17/2018	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		104 %	41-142							
Surrogate: 1-Chlorooctadecane		2200 %	37.6-147							

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ 1' (H801916-10)

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	07/17/2018	ND	2.25	112	2.00	2.43		
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05		
Ethylbenzene*	0.246	0.050	07/17/2018	ND	2.13	106	2.00	2.18		
Total Xylenes*	0.620	0.150	07/17/2018	ND	6.55	109	6.00	2.02		
Total BTEx	0.866	0.300	07/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.3	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	2330	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	387	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 191 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ 2' (H801916-11)

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	07/17/2018	ND	2.25	112	2.00	2.43		
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05		
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	2.13	106	2.00	2.18		
Total Xylenes*	<0.150	0.150	07/17/2018	ND	6.55	109	6.00	2.02		
Total BTEx	<0.300	0.300	07/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/17/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	20.1	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 3 @ 3' (H801916-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/17/2018	ND	448	112	400	7.41		

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ SURFACE (H801916-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.646	0.100	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.926	0.100	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	3.55	0.300	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTX	5.12	0.600	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	448	112	400	7.41	

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*	141	100	07/17/2018	ND	206	103	200	2.89		
DRO >C10-C28*	42000	100	07/17/2018	ND	211	105	200	8.92		
EXT DRO >C28-C36	9440	100	07/17/2018	ND						

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 2660 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ 1' (H801916-14)

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	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.254	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.564	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTX	0.818	0.300	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/17/2018	ND	448	112	400	7.41		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	61.6	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	2400	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	389	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 196 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ 2' (H801916-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43		
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05		
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	2.13	106	2.00	2.18		
Total Xylenes*	<0.150	0.150	07/17/2018	ND	6.55	109	6.00	2.02		
Total BTEx	<0.300	0.300	07/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/17/2018	ND	448	112	400	7.41		

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	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	29.3	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 4 @ 3' (H801916-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/17/2018	ND	448	112	400	7.41		

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

Received:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ SURFACE (H801916-17)

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	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.407	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.643	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	2.68	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEx	3.73	0.300	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	07/17/2018	ND	448	112	400	7.41		

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*	129	100	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	43700	100	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	9720	100	07/17/2018	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 2600 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ 1' (H801916-18)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.305	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.647	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTEX	0.953	0.300	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55.4	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	2460	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	390	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 196 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ 2' (H801916-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43		
Toluene*	<0.050	0.050	07/17/2018	ND	2.18	109	2.00	3.05		
Ethylbenzene*	<0.050	0.050	07/17/2018	ND	2.13	106	2.00	2.18		
Total Xylenes*	<0.150	0.150	07/17/2018	ND	6.55	109	6.00	2.02		
Total BTEX	<0.300	0.300	07/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/17/2018	ND	448	112	400	7.41		

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	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	37.8	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	11.7	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/06/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 5 @ 3' (H801916-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/17/2018	ND	448	112	400	7.41		

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ SURFACE (H801916-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.988	0.100	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	2.12	0.100	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	8.56	0.300	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTX	11.7	0.600	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/17/2018	ND	448	112	400	7.41	

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*	202	50.0	07/17/2018	ND	206	103	200	2.89		
DRO >C10-C28*	17500	50.0	07/17/2018	ND	211	105	200	8.92		
EXT DRO >C28-C36	3510	50.0	07/17/2018	ND						

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 1040 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ 1' (H801916-22)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.443	0.200	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	2.08	0.200	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	4.80	0.600	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTX	7.33	1.20	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	377	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	4770	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	691	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 134 % 41-142

Surrogate: 1-Chlorooctadecane 288 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ 2' (H801916-23)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.061	0.050	07/17/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.380	0.050	07/17/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	1.43	0.150	07/17/2018	ND	6.55	109	6.00	2.02	
Total BTX	1.87	0.300	07/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	07/17/2018	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	64.5	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	1260	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	188	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 146 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 6 @ 3' (H801916-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/17/2018	ND	448	112	400	7.41		

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ SURFACE (H801916-25)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	1.23	0.100	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	1.67	0.100	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	7.29	0.300	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTX	10.2	0.600	07/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	07/17/2018	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		114 %	41-142							
Surrogate: 1-Chlorooctadecane		1080 %	37.6-147							

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ 1' (H801916-26)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.638	0.200	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	3.64	0.200	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	12.6	0.600	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	16.9	1.20	07/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/17/2018	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	433	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	4470	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	653	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 133 % 41-142

Surrogate: 1-Chlorooctadecane 271 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ 2' (H801916-27)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	<0.050	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.226	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.853	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTX	1.08	0.300	07/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/17/2018	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.4	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	1430	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	238	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 160 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 @ 3' (H801916-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/17/2018	ND	448	112	400	7.41		

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ SURFACE (H801916-29)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.998	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	1.29	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	6.12	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTX	8.41	0.300	07/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	07/17/2018	ND	448	112	400	7.41	

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*	133	50.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	17900	50.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	3560	50.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 1100 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ 1' (H801916-30)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.526	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	3.21	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	10.5	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTEX	14.2	0.300	07/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 218 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/17/2018	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	488	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	5220	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	740	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 144 % 41-142

Surrogate: 1-Chlorooctadecane 298 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ 2' (H801916-31)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2018	ND	2.25	112	2.00	2.43	
Toluene*	0.066	0.050	07/18/2018	ND	2.18	109	2.00	3.05	
Ethylbenzene*	0.325	0.050	07/18/2018	ND	2.13	106	2.00	2.18	
Total Xylenes*	0.716	0.150	07/18/2018	ND	6.55	109	6.00	2.02	
Total BTX	1.11	0.300	07/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	07/17/2018	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	60.8	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	1490	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	229	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 161 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 8 @ 3' (H801916-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/17/2018	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: NORTH (H801916-33)

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	07/18/2018	ND	2.25	112	2.00	2.43		
Toluene*	<0.050	0.050	07/18/2018	ND	2.18	109	2.00	3.05		
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.13	106	2.00	2.18		
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.55	109	6.00	2.02		
Total BTEX	<0.300	0.300	07/18/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/17/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: EAST (H801916-34)

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	07/18/2018	ND	2.25	112	2.00	2.43		
Toluene*	<0.050	0.050	07/18/2018	ND	2.18	109	2.00	3.05		
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.13	106	2.00	2.18		
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.55	109	6.00	2.02		
Total BTEx	<0.300	0.300	07/18/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/17/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2018	ND	206	103	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/17/2018	ND	211	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	07/17/2018	ND					

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: WEST (H801916-35)

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	07/18/2018	ND	2.37	118	2.00	0.370		
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11		
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695		
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183		
Total BTEx	<0.300	0.300	07/18/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 82.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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

Received:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SOUTH (H801916-36)

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	07/18/2018	ND	2.37	118	2.00	0.370		
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11		
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695		
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183		
Total BTX	<0.300	0.300	07/18/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: NORTH 2 (H801916-37)

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	07/18/2018	ND	2.37	118	2.00	0.370		
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11		
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695		
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183		
Total BTEx	<0.300	0.300	07/18/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 79.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: EAST 2 (H801916-38)

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	07/18/2018	ND	2.37	118	2.00	0.370		
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11		
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695		
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183		
Total BTEx	<0.300	0.300	07/18/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: WEST 2 (H801916-39)

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	07/18/2018	ND	2.37	118	2.00	0.370	
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695	
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183	
Total BTX	<0.300	0.300	07/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 76.5 % 41-142

Surrogate: 1-Chlorooctadecane 81.7 % 37.6-147

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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:	07/13/2018	Sampling Date:	07/09/2018
Reported:	07/20/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SOUTH 2 (H801916-40)

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	07/18/2018	ND	2.37	118	2.00	0.370		
Toluene*	<0.050	0.050	07/18/2018	ND	2.31	115	2.00	1.11		
Ethylbenzene*	<0.050	0.050	07/18/2018	ND	2.27	114	2.00	0.695		
Total Xylenes*	<0.150	0.150	07/18/2018	ND	6.93	116	6.00	0.00183		
Total BTX	<0.300	0.300	07/18/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/17/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2018	ND	177	88.7	200	2.34	
DRO >C10-C28*	<10.0	10.0	07/16/2018	ND	183	91.3	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	07/16/2018	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

129

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

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4/24

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

December 11, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LYCHEE BWS STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/06/18 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 style with a large, stylized 'C' and 'K'.

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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 1 @ SURFACE (H803591-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.237	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	5.36	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	16.6	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTX	22.2	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	12/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	462	10.0	12/07/2018	ND	197	98.4	200	2.38		
DRO >C10-C28*	3540	10.0	12/07/2018	ND	206	103	200	4.30		
EXT DRO >C28-C36	619	10.0	12/07/2018	ND						

Surrogate: 1-Chlorooctane 127 % 41-142

Surrogate: 1-Chlorooctadecane 198 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 1 @ 1 (H803591-02)

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	12/07/2018	ND	2.01	100	2.00	3.72		
Toluene*	0.115	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93		
Total Xylenes*	0.666	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83		
Total BTEX	0.780	0.300	12/07/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	12/11/2018	ND	416	104	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.4	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	379	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	92.7	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 1 @ 2 (H803591-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	0.176	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	0.958	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTX	1.13	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	12/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.1	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	814	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	166	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 2 @ SURFACE (H803591-04)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	15.7	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	12.8	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	59.2	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTX	87.7	3.00	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	12/11/2018	ND	400	100	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	977	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	6010	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	957	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane 163 % 41-142

Surrogate: 1-Chlorooctadecane 271 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 2 @ 1 (H803591-05)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.91	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	60.8	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	45.7	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	121	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	230	3.00	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	12/11/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1380	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	5730	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	866	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane 171 % 41-142

Surrogate: 1-Chlorooctadecane 257 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 2 @ 2 (H803591-06)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	1.12	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	1.66	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	6.57	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTX	9.36	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 154 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	12/11/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	153	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	1780	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	331	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 165 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 3 @ SURFACE (H803591-07)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.04	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	28.2	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	12.2	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	57.4	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTX	101	3.00	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	12/11/2018	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*	1670	50.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	11800	50.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	2020	50.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane 195 % 41-142

Surrogate: 1-Chlorooctadecane 413 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 3 @ 1 (H803591-08)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.672	0.500	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	23.7	0.500	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	21.3	0.500	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	88.3	1.50	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEx	134	3.00	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	12/11/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1240	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	5510	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	820	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane 164 % 41-142

Surrogate: 1-Chlorooctadecane 245 % 37.6-147

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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:	12/06/2018	Sampling Date:	12/05/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	LYCHEE BWS STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	5-26-18	Sample Received By:	Tamara Oldaker
Project Location:	COG-176		

Sample ID: SP 3 @ 2 (H803591-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.122	0.050	12/08/2018	ND	1.95	97.3	2.00	1.76	
Toluene*	5.53	0.050	12/08/2018	ND	1.96	98.1	2.00	1.95	
Ethylbenzene*	7.64	0.050	12/08/2018	ND	1.90	95.1	2.00	2.12	
Total Xylenes*	28.2	0.150	12/08/2018	ND	5.71	95.1	6.00	1.84	
Total BTX	41.5	0.300	12/08/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	12/11/2018	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*	562	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	3790	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	605	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane		148 %	41-142						
Surrogate: 1-Chlorooctadecane		217 %	37.6-147						

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BEO International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">7PH Extended</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTE X</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C/-</div> </div>											
Address: P.O. Box 805				Company:															
City: Hobbs State: NM Zip: 88241				Attn:															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:															
Project #: Project Owner: COG				City:															
Project Name: Lychee BWS State Com #1H				State: Zip:															
Project Location: 176 - 5-26-18				Phone #:															
Sampler Name: ✓				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					
H803591				G		1								12-5					
1		Sp1e SUR		G		1								X					
2		1		G		1								X					
3		2		G		1								X					
4		Sp2e SUR		G		1								X					
5		1		G		1								X					
6		2		G		1								X					
7		Sp3e SUR		G		1								X					
8		1		G		1								X					
9		2		G		1								X					

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Relinquished By: <i>Off Ornelz</i>	Date: 12-6-18	Received By: <i>Amara Dilday</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 11:05		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>TO.</i>		

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

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 161746

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 161746
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan approved with the condition that the remediation meets 19.15.29.12 and 19.15.29.13 NMAC.	11/28/2022
bhall	Lined facility area deferral request is denied. Delineation, both vertically and horizontally, in this area is incomplete. Delineation vertically and horizontally must be completed to the most stringent standards of Table I in 19.15.29.12 NMAC.	11/28/2022
bhall	1RP-5077 closed. Refer to incident #nOY1815234060 in all future communications.	11/28/2022
bhall	Submit a complete closure and deferral report through the OCD Permitting website by 3/3/2023.	11/28/2022