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DELINEATION/REMEDIATION WORKPLAN

OXY - Pluma 29 St 1 Battery (Leak Date: 1/2/20)

Incident ID: NVV2003150585

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NVV2003150585.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1, SP5, and SP6 (PURPLE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP2 and SP7 (GREEN shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP3 (YELLOW shade on diagram) will be excavated to a depth of 5 feet. The leak area near SP4 (ORANGE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP8 – SP16 (BLUE shade on diagram) will require zero remediation.

Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 1,204 cubic yards. Remediation activities will commence within 90 days of all approvals.

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

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

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	NVV2003150585
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	234 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ■ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ■ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ■ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ■ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ■ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ■ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ■ No
Did the release impact areas not on an exploration, development, production, or storage site?	■ Yes □ No

Attach a comprehensive report (electronic 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.
- 2 and of the following them must be the stated in the report
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
■ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
Laboratory data including chain of custody

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

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	NVV2003150585
District RP	
Facility ID	
Application ID	

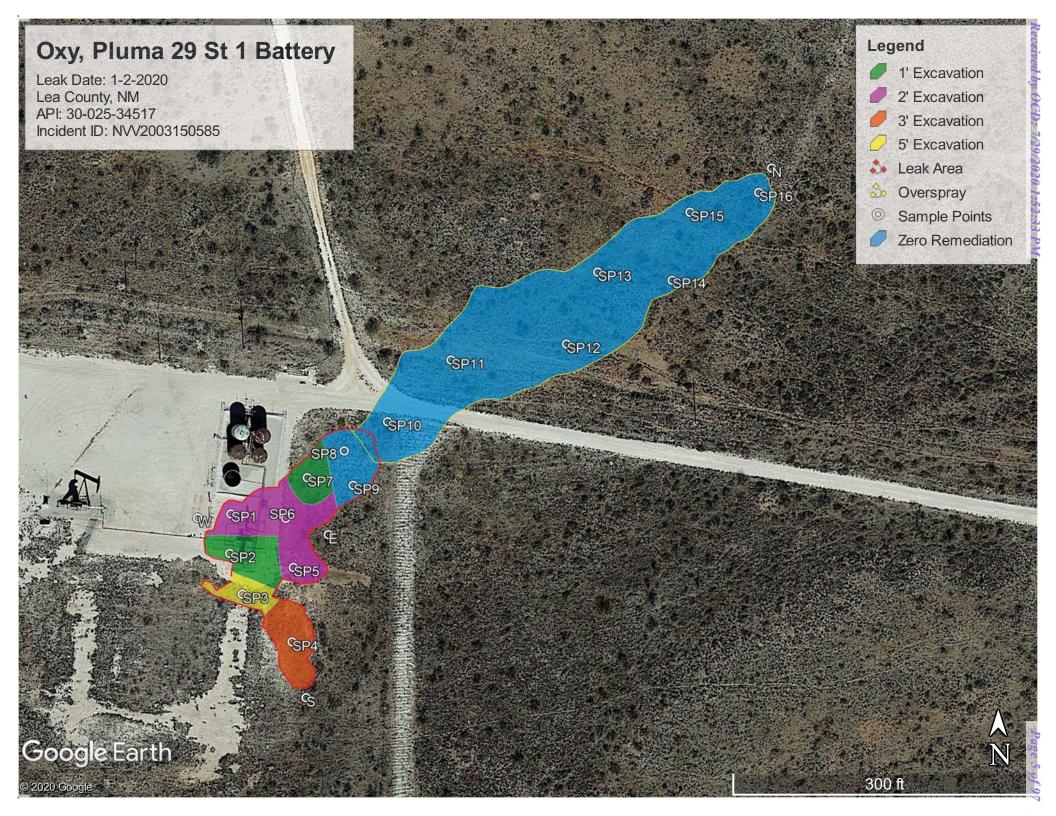
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the Gailed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: Will With	Date: 7-17-20
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
OCD Only	
Received by:	Date:

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

Incident ID	NVV2003150585
District RP	
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: Wade Dittrich Title: Environmental Coordinator
Signature: Date: 7-17-20
email: wade_dittrich@oxy.com Telephone: (575) 390-2828
rotephone. ·
OCD Only
Received by: Date:
Approved Deferral Approved Deferral Approved
Signature: Date:



Oxy, Pluma 29 St. 1 Battery (1-2-20)

Sample points

SP1, N 32.98879 W-103.73682

SP2, N 32.98869 W-103.73682

SP3, N 32.98858 W-103.73678

SP4, N 32.98845 W-103.73662

SP5, N 32.98865 W-103.73662

SP6, N 32.98878 W-103.73664

SP7, N 32.98889 W-103.73657

SP8, N 32.98897 W-103.73645

SP9, N 32.98887 W-103.73643

SP10, N 32.98904 W-103.73631

SP11, N 32.98921 W-103.73611

SP12, N 32.98925 W-103.73574

SP13, N 32.98945 W-103.73564

SP14, N 32.98943 W-103.73540

SP15, N 32.98961 W-103.73534

SP16, N 32.98966 W-103.73512

NORTH, N 32.98973 W-103.73508

EAST, N 32.98874 W-103.73651

WEST, N 32.98878 W-103.73693

SOUTH, N 32.98830 W-103.73658



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 325846103435401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325846103435401 15S.32E.29.44441

Lea County, New Mexico Latitude 32°58'52.4", Longitude 103°43'54.8" NAD83 Land-surface elevation 4,314.80 feet above NGVD29 The depth of the well is 348 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data						
Tab-separated data	3					
Graph of data						
Reselect period						
	2	Water				_

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 measurem
1961-01-19		D	220.58			2		U		
1966-02-14		D	222.57			2		U		
1971-04-01		D	226.05			2		U		
1976-04-01		D	230.66			2		U		
1981-01-28		D	234.46			2		U		
1986-01-09		D	234.60			2		U		
1990-12-05		D	232.81			2		U		
1996-01-09		D	233.28			2		S		
2001-02-16		D	234.76			2		S		
2006-02-16	10:51 MST	m	234.05			2		S	USGS	
2010-12-11	15:00 MST	m	234.29			2		S	USGS	
2016-02-02	13:40 MST	m	234.89			2		S	USGS	

Explanation					
Section	Code	Description			
Water-level date-time accuracy	D	Date is accurate to the Day			
Water-level date-time accuracy	m	Date is accurate to the Minute			

Section	Code	Description
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
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	Α	Approved for publication Processing and review completed.

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

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

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2020-01-08 13:10:18 EST

0.22 0.19 nadww02



Oxy Pluma 29 St 1 Battery (1-2-20) 2,450 ft to h2o





* CO2, Active

Gas, New Injection, Cancelled

* CO2, Temporarily Abandoned Injection, New Gas, Plugged

0.2 0.1 0.4 km

Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong),

Oxy, Pluma 29 St 1 Battery

Leak Date: 1-2-2020 Lea County, NM API: 30-025-34517

Incident ID: NVV2003150585

BLM CAVE KARST MAP





National Flood Hazard Layer FIRMette LEA COUNTY Zone D 350130 T15S R32E S29

USGS The National Map: Orthoimagery, Data refreshed April, 2019.

1:6,000

Feet

2,000

250

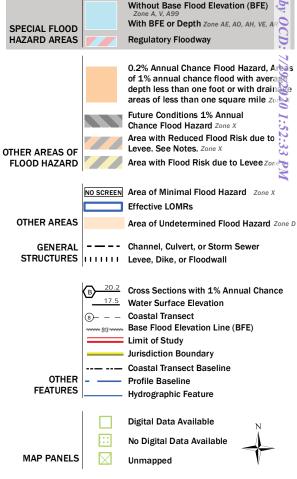
500

1,000

1,500

Legend

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





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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/10/2020 at 1:00:14 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.

		0	North @ Surface	East @ Surface	West @ Surface	South @ Surface
		Sample ID	Surrace	Surrace	Surrace	Surrace
Analyte	Method	Date	2/17/20	2/17/20	2/17/20	2/17/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		0.078	0.243	<0.050	0.197
Ethylbenzene	BTEX 8021B		1.160	0.192	<0.050	0.201
Total Xylenes	BTEX 8021B		0.430	0.494	<0.150	0.584
Total BTEX	BTEX 8021B		0.668	0.929	< 0.300	0.982
Chloride	SM4500CI-B		<16.0	<16.0	160	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	2/17/20	2/17/20	2/17/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		1.5	0.190	0.053
Toluene	BTEX 8021B		13.3	3.14	0.538
Ethylbenzene	BTEX 8021B		5.6	2.28	0.488
Total Xylenes	BTEX 8021B		31.3	12.8	2.37
Total BTEX	BTEX 8021B		51.7	18.4	3.45
Chloride	SM4500CI-B		832	272	176
GRO	TPH 8015M		893	38.7	17.5
DRO	TPH 8015M		12600	164	272
EXT DRO	TPH 8015M		2300	<10.0	19.7

			SP2 @		
		Sample ID	Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	2/17/20	2/17/20	2/17/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050
Toluene	BTEX 8021B		4.99	0.175	0.104
Ethylbenzene	BTEX 8021B		7.14	0.104	0.081
Total Xylenes	BTEX 8021B		29.4	0.687	0.932
Total BTEX	BTEX 8021B		41.5	0.966	1.12
Chloride	SM4500CI-B		224	144	240
GRO	TPH 8015M		340	<10.0	<10.0
DRO	TPH 8015M		2670	<10.0	114
EXT DRO	TPH 8015M	·	392	<10.0	11.9

			SP3 @	200 0 41	000 0 01	000 0 01	000 0 41	000 0 51	000 0 01	000 0 71	000 0 01	000 0 01	000 0 401	000 0 441
		Sample ID	Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'	SP3 @ 7'	SP3 @ 8'	SP3 @ 9'	SP3 @ 10'	SP3 @ 11'
Analyte	Method	Date	2/17/20	2/17/20	2/17/20	2/17/20	2/17/20	2/17/20	2/17/20	2/18/20	2/18/20	2/18/20	2/18/20	2/18/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		10.1	0.955	0.374	<0.050	<0.050	1.18	< 0.050	< 0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		117	21.2	7.52	0.143	0.102	40.3	0.051	0.062	<0.050	<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		84.5	24.1	10.9	0.458	0.069	43	0.174	0.094	<0.050	<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		205	62.0	20.5	1.32	<0.150	113	0.967	0.687	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		417	108	39.2	1.92	< 0.300	197	1.19	0.843	<0.300	< 0.300	<0.300	< 0.300
Chloride	SM4500CI-B		480	528	496	768	320	320.0	208	224	64.0	80.0	64.0	64.0
GRO	TPH 8015M		5030	1900	812	15.7	<10.0	1930	19.8	13.4	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		50000	5280	3210	207	80.9	5590	342	300	63.6	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		10200	709	372	28.8	11.8	850	53.5	43.6	<10.0	<10.0	<10.0	<10.0

			SP4 @							
		Sample ID	Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'	SP4 @ 6'	SP4 @ 7'
Analyte	Method	Date	2/18/20	2/18/20	2/18/20	2/18/20	2/18/20	2/18/20	2/18/20	2/18/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		2.93	35.6	11.9	<0.050	<0.050	< 0.050	<0.050	< 0.050
Toluene	BTEX 8021B		32.8	215	102	<0.050	<0.050	0.230	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		33.3	101	67.4	<0.050	<0.050	0.381	<0.050	< 0.050
Total Xylenes	BTEX 8021B		91.2	219	165	<0.150	<0.150	1.37	<0.150	<0.150
Total BTEX	BTEX 8021B		160	571	346	<0.300	<0.300	1.98	<0.300	< 0.300
Chloride	SM4500CI-B		128	32.0	16.0	16.0	32.0	16.0	32.0	16.0
GRO	TPH 8015M		2770	7260	2850	<10.0	<10.0	27.2	<10.0	<10.0
DRO	TPH 8015M		51000	11800	5630	14.3	<10.0	360	92.0	<10.0
EXT DRO	TPH 8015M		10100	1900	816	<10.0	<10.0	47.7	11.4	<10.0

			SP5@			
		Sample ID	Surface	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	2/18/20	2/18/20	2/18/20	2/18/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	0.218	< 0.050	<0.050
Toluene	BTEX 8021B		<0.050	1.82	< 0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	0.670	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	1.17	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	3.88	< 0.300	< 0.300
Chloride	SM4500CI-B		32.0	256	32.0	16.0
GRO	TPH 8015M		<10.0	19.1	<10.0	<10.0
DRO	TPH 8015M		58.9	8190	<10.0	<10.0
EXT DRO	TPH 8015M		13.0	1720	<10.0	<10.0

			SP6@			
		Sample ID	Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	2/18/20	2/18/20	2/25/20	2/26/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	0.121	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	0.950	< 0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	0.362	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	0.837	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	2.27	<0.300	< 0.300
Chloride	SM4500CI-B		160	384	48.0	32.0
GRO	TPH 8015M		<10.0	<50.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	22900	22.4	<10.0
EXT DRO	TPH 8015M		<10.0	9170	<10.0	<10.0

			SP7 @		
		Sample ID	Surface	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	2/25/20	2/25/20	2/25/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		48.0	16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		849	<10.0	<10.0
EXT DRO	TPH 8015M		269	<10.0	<10.0

			SP8@		
		Sample ID	Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	2/25/20	2/25/20	2/25/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		<16.0	32.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		15.4	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

			SP9@			
		Sample ID	Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	2/25/20	2/25/20	2/25/20	2/25/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	< 0.300	< 0.300	<0.300
Chloride	SM4500CI-B		16.0	<16.0	16.0	16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

			SP10 @		
		Sample ID	Surface	SP10 @ 1'	SP10 @ 2'
		Sample ID	Juliace	31 10 @ 1	51 10 @ 2
Analyte	Method	Date	2/25/20	2/25/20	2/25/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		<16.0	32.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		30.1	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

			SP11 @		
		Sample ID	Surface	SP11 @ 1'	SP11 @ 2'
Analyte	Method	Date	2/25/20	2/25/20	2/25/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		<16.0	64.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	44.9	<10.0
EXT DRO	TPH 8015M		<10.0	12.4	<10.0

			SP12 @		
		Sample ID	Surface	SP12 @ 1'	SP12 @ 2'
Analyte	Method	Date	2/25/20	2/25/20	2/25/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		32.0	48.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

			SP13 @	0040 0 41	0040 0 0
		Sample ID	Surface	SP13 @ 1'	SP13 @ 2'
Analyte	Method	Date	2/26/20	2/26/20	2/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		16.0	16.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

			SP14 @		
		Sample ID	Surface	SP14 @ 1'	SP14 @ 2'
		Sample ID	Juliace	31 17 62 1	31 17 60 2
Analyte	Method	Date	2/26/20	2/26/20	2/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

			CD4F @		
		Sample ID	SP15 @ Surface	SP15 @ 1'	SP15 @ 2'
		Sample ID	Surface	3F 13 @ 1	3F 13 W 2
Analyte	Method	Date	2/26/20	2/26/20	2/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		16.0	32.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

			SP16 @		
		Sample ID	Surface	SP16 @ 1'	SP16 @ 2'
Analyte	Method	Date	2/26/20	2/26/20	2/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0



February 25, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLUMA 29 STATE #001

Enclosed are the results of analyses for samples received by the laboratory on 02/19/20 15:30.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Sample ID: NORTH @ SURFACE (H000525-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.75	87.6	2.00	16.3	
Toluene*	0.078	0.050	02/20/2020	ND	1.78	88.8	2.00	16.2	
Ethylbenzene*	0.160	0.050	02/20/2020	ND	1.77	88.6	2.00	16.4	
Total Xylenes*	0.430	0.150	02/20/2020	ND	5.14	85.7	6.00	16.5	
Total BTEX	0.668	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	196	98.2	200	1.90	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	208	104	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	80.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.1	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/19/2020

02/25/2020

Project Name: Project Number:

BATTERY (1-2-20) OXY - MALJAMAR

Project Location:

PLUMA 29 STATE #001

Sampling Date: 02/17/2020

Sampling Type: Soil

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

Sample ID: EAST @ SURFACE (H000525-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.75	87.6	2.00	16.3	
Toluene*	0.243	0.050	02/20/2020	ND	1.78	88.8	2.00	16.2	
Ethylbenzene*	0.192	0.050	02/20/2020	ND	1.77	88.6	2.00	16.4	
Total Xylenes*	0.494	0.150	02/20/2020	ND	5.14	85.7	6.00	16.5	
Total BTEX	0.929	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	196	98.2	200	1.90	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	208	104	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.3	% 42.2-15	6						

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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: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/17/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: WEST@ SURFACE (H000525-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.75	87.6	2.00	16.3	
Toluene*	<0.050	0.050	02/20/2020	ND	1.78	88.8	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.77	88.6	2.00	16.4	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.14	85.7	6.00	16.5	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	196	98.2	200	1.90	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	208	104	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.8	% 42.2-15	6						

Cardinal Laboratories

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/19/2020

Sampling Date:

02/17/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SOUTH @ SURFACE (H000525-04)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.75	87.6	2.00	16.3	
Toluene*	0.197	0.050	02/20/2020	ND	1.78	88.8	2.00	16.2	
Ethylbenzene*	0.201	0.050	02/20/2020	ND	1.77	88.6	2.00	16.4	
Total Xylenes*	0.584	0.150	02/20/2020	ND	5.14	85.7	6.00	16.5	
Total BTEX	0.982	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9 %	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					

Result <16.0	Reporting Limit 16.0	Analyzed 02/24/2020	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	16.0	02/24/2020						
		02,2 1,2020	ND	416	104	400	0.00	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/21/2020	ND	196	98.2	200	1.90	
<10.0	10.0	02/21/2020	ND	208	104	200	1.59	
<10.0	10.0	02/21/2020	ND					
	Result <10.0 <10.0	Result Reporting Limit <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed <10.0 10.0 02/21/2020 <10.0 10.0 02/21/2020	Result Reporting Limit Analyzed Method Blank <10.0 10.0 02/21/2020 ND <10.0 10.0 02/21/2020 ND	Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

90.9 %

44.3-144

Surrogate: 1-Chlorooctadecane

95.1 %

42.2-156

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/19/2020

Reported: Project Name: 02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

Sampling Condition:

Sample Received By:

02/17/2020

Sampling Type:

Soil Cool & Intact

Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H000525-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.50	0.500	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	13.3	0.500	02/20/2020	ND	1.96	97.9	2.00	6.60	QM-07
Ethylbenzene*	5.60	0.500	02/20/2020	ND	1.97	98.5	2.00	6.69	QM-07
Total Xylenes*	31.3	1.50	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	51.7	3.00	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	893	50.0	02/21/2020	ND	196	98.2	200	1.90	
DRO >C10-C28*	12600	50.0	02/21/2020	ND	208	104	200	1.59	
EXT DRO >C28-C36	2300	50.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	176	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	456	% 42.2-15	6						

Cardinal Laboratories

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/19/2020

Reported: 03

Project Name:
Project Number:
Project Location:

02/25/2020 PLUMA 29 STATE #001 BATTERY (1-2-20)

OXY - MALJAMAR

mg/kg

Sampling Date:

Sampling Type: Soil

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

02/17/2020

S-04

Sample ID: SP 1 @ 1' (H000525-06)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.190	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	3.14	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	2.28	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	12.8	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	18.4	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	264 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.7	10.0	02/21/2020	ND	196	98.2	200	1.90	
DRO >C10-C28*	164	10.0	02/21/2020	ND	208	104	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane 97.5 %
Surrogate: 1-Chlorooctadecane 103 %

Cardinal Laboratories *=Accredited Analyte

44.3-144

42.2-156

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

02/19/2020

Sampling Date:

02/17/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

S-04

Project Number: Project Location:

OXY - MALJAMAR

ma/ka

Sample ID: SP 1 @ 2' (H000525-07)

B1EX 8021B	тд/кд		Analyzed By: MS					5-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.053	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44		
Toluene*	0.538	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60		
Ethylbenzene*	0.488	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69		
Total Xylenes*	2.37	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85		
Total BTEX	3.45	0.300	02/20/2020	ND						
Surrogate: 4-Bromofluorobenzene (PID	233	% 73.3-12	9							
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/24/2020	ND	416	104	400	0.00		
TPH 8015M	mg	/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	17.5	10.0	02/21/2020	ND	196	98.2	200	1.90		
DRO >C10-C28*	272	10.0	02/21/2020	ND	208	104	200	1.59		
EXT DRO >C28-C36	19.7	10.0	02/21/2020	ND						
Surrogate: 1-Chlorooctane	95.0	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	100	% 42.2-15	6							

Analyzed By: MC

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported:

RTFY 8021R

02/19/2020

02/25/2020

Project Name: Project Number: BATTERY (1-2-20) OXY - MALJAMAR

Project Location:

PLUMA 29 STATE #001

Sampling Date:

02/17/2020

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

S-04

Sample ID: SP 2 @ SURFACE (H000525-08)

B1EX 8021B	тд/кд		Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	02/20/2020	ND	1.94	97.2	2.00	6.44		
Toluene*	4.99	0.500	02/20/2020	ND	1.96	97.9	2.00	6.60		
Ethylbenzene*	7.14	0.500	02/20/2020	ND	1.97	98.5	2.00	6.69		
Total Xylenes*	29.4	1.50	02/20/2020	ND	5.74	95.7	6.00	6.85		
Total BTEX	41.5	3.00	02/20/2020	ND						
Surrogate: 4-Bromofluorobenzene (PID	136	% 73.3-12	9							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/24/2020	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	340	50.0	02/21/2020	ND	196	98.2	200	1.90		
DRO >C10-C28*	2670	50.0	02/21/2020	ND	208	104	200	1.59		
EXT DRO >C28-C36	392	50.0	02/21/2020	ND						
Surrogate: 1-Chlorooctane	137	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	177	% 42.2-15	6							

Analyzed By: MC

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Sample ID: SP 2 @ 1' (H000525-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	0.175	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	0.104	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	0.687	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	0.966	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	196	98.2	200	1.90	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	208	104	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	88.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.3	% 42.2-15	6						

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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: Reported:

BTEX 8021B

02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

mg/kg

Sampling Date:

02/17/2020

Sampling Type:

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Soil

Sample ID: SP 2 @ 2' (H000525-10)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	0.104	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	0.081	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	0.932	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	1.12	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

208

104

200

1.59

02/21/2020

02/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 90.2 % 44.3-144 Surrogate: 1-Chlorooctadecane 96.4 % 42.2-156

114

11.9

10.0

10.0

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DRO >C10-C28*

EXT DRO > C28 - C36

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/19/2020

Sampling Date:

02/17/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

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

S-04

Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 3 @ SURFACE (H000525-11)

DIEX COLLD	g/ kg		Analyzea Byl 110							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	10.1	2.00	02/20/2020	ND	1.94	97.2	2.00	6.44		
Toluene*	117	2.00	02/20/2020	ND	1.96	97.9	2.00	6.60		
Ethylbenzene*	84.5	2.00	02/20/2020	ND	1.97	98.5	2.00	6.69		
Total Xylenes*	205	6.00	02/20/2020	ND	5.74	95.7	6.00	6.85		
Total BTEX	417	12.0	02/20/2020	ND						
Surrogate: 4-Bromofluorobenzene (PID	135	% 73.3-12	9							
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/24/2020	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5030	50.0	02/21/2020	ND	196	98.2	200	1.90		
DRO >C10-C28*	50000	50.0	02/21/2020	ND	208	104	200	1.59		
EXT DRO >C28-C36	10200	50.0	02/21/2020	ND						
Surrogate: 1-Chlorooctane	507	% 44.3-14	4							

Analyzed By: MS

Surrogate: 1-Chlorooctane

507 %

Surrogate: 1-Chlorooctadecane

1940 %

42.2-156

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/19/2020

Sampling Date:

02/17/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

S-04

Project Location:

OXY - MALJAMAR

mg/kg

228 %

42.2-156

Sample ID: SP 3 @ 1' (H000525-12)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.955	0.500	02/20/2020	ND	1.94	97.2	2.00	6.44	
21.2	0.500	02/20/2020	ND	1.96	97.9	2.00	6.60	
24.1	0.500	02/20/2020	ND	1.97	98.5	2.00	6.69	
62.0	1.50	02/20/2020	ND	5.74	95.7	6.00	6.85	
108	3.00	02/20/2020	ND					
150	% 73.3-12	9						
mg,	/kg	Analyze	Analyzed By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
528	16.0	02/24/2020	ND	416	104	400	0.00	
mg,	/kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1900	50.0	02/21/2020	ND	194	96.9	200	1.78	QM-07
5280	50.0	02/21/2020	ND	180	90.1	200	5.45	
	0.955 21.2 24.1 62.0 108 150 9 Result 528 mg/	0.955 0.500 21.2 0.500 24.1 0.500 62.0 1.50 108 3.00 150 % 73.3-12 mg/kg Result Reporting Limit 528 16.0 mg/kg Result Reporting Limit	0.955 0.500 02/20/2020 21.2 0.500 02/20/2020 24.1 0.500 02/20/2020 62.0 1.50 02/20/2020 108 3.00 02/20/2020 Analyze Result Reporting Limit Analyzed 528 16.0 02/24/2020 mg/kg Analyzed Result Reporting Limit Analyzed	0.955 0.500 02/20/2020 ND 21.2 0.500 02/20/2020 ND 24.1 0.500 02/20/2020 ND 62.0 1.50 02/20/2020 ND 150 % 73.3-129 Method Blank Result Reporting Limit Analyzed Method Blank 528 16.0 02/24/2020 ND mg/kg Analyzed Method Blank Result Reporting Limit Analyzed Method Blank	0.955 0.500 02/20/2020 ND 1.94 21.2 0.500 02/20/2020 ND 1.96 24.1 0.500 02/20/2020 ND 1.97 62.0 1.50 02/20/2020 ND 5.74 108 3.00 02/20/2020 ND ND Iso % 73.3-129 Method Blank BS Result Reporting Limit Analyzed Method Blank BS 528 16.0 02/24/2020 ND 416 mg/kg Analyzed Method Blank BS	0.955 0.500 02/20/2020 ND 1.94 97.2 21.2 0.500 02/20/2020 ND 1.96 97.9 24.1 0.500 02/20/2020 ND 1.97 98.5 62.0 1.50 02/20/2020 ND 5.74 95.7 108 3.00 02/20/2020 ND V P Isolated Bank BS % Recovery Result Reporting Limit Analyzed Method Blank BS % Recovery 528 16.0 02/24/2020 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery	0.955 0.500 02/20/2020 ND 1.94 97.2 2.00 21.2 0.500 02/20/2020 ND 1.96 97.9 2.00 24.1 0.500 02/20/2020 ND 1.97 98.5 2.00 62.0 1.50 02/20/2020 ND 5.74 95.7 6.00 150 % 73.3-129 mg/kg Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 528 16.0 02/24/2020 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	0.955 0.500 02/20/2020 ND 1.94 97.2 2.00 6.44 21.2 0.500 02/20/2020 ND 1.96 97.9 2.00 6.60 24.1 0.500 02/20/2020 ND 1.97 98.5 2.00 6.69 62.0 1.50 02/20/2020 ND 5.74 95.7 6.00 6.85 108 3.00 02/20/2020 ND *** <t< td=""></t<>

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/17/2020

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 3 @ 2' (H000525-13)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.374	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44		
Toluene*	7.52	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60		
Ethylbenzene*	10.9	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69		
Total Xylenes*	20.5	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85		
Total BTEX	39.2	0.300	02/20/2020	ND						
Surrogate: 4-Bromofluorobenzene (PID	196	% 73.3-12	9							
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	02/24/2020	ND	416	104	400	0.00		
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	812	50.0	02/21/2020	ND	194	96.9	200	1.78		
DRO >C10-C28*	3210	50.0	02/21/2020	ND	180	90.1	200	5.45		
EXT DRO >C28-C36	372	50.0	02/21/2020	ND						
Surrogate: 1-Chlorooctane	142	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	197	% 42.2-15	6							

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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: Reported:

RTFY 8021R

TPH 8015M

GRO C6-C10*

DRO >C10-C28*

EXT DRO > C28 - C36

Analyte

02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

ma/ka

mg/kg

Reporting Limit

10.0

10.0

10.0

Result

15.7

207

28.8

Sampling Date: 02/17/2020

Sampling Type: Soil

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

S-04

Sample ID: SP 3 @ 3' (H000525-14)

BIEX 8021B	mg/	кд	Analyzed By: MS						3-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44			
Toluene*	0.143	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60			
Ethylbenzene*	0.458	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69			
Total Xylenes*	1.32	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85			
Total BTEX	1.92	0.300	02/20/2020	ND							
Surrogate: 4-Bromofluorobenzene (PID	137	% 73.3-12	9								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	768	16.0	02/24/2020	ND	416	104	400	0.00			

Analyzed By: MS

Method Blank

ND

ND

ND

BS

194

180

% Recovery

96.9

90.1

True Value QC

200

200

RPD

1.78

5.45

Qualifier

Analyzed

02/21/2020

02/21/2020

02/21/2020

Analyzed By: MC

Surrogate: 1-Chlorooctane	93.8 %	44.3-144
Surrogate: 1-Chlorooctadecane	111 %	42 2-156

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

02/19/2020

Sampling Date:

02/17/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 3 @ 4' (H000525-15)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	0.102	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	0.069	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	80.9	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	11.8	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.1	% 42.2-15	6						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

GRO C6-C10*

DRO >C10-C28*

EXT DRO > C28 - C36

02/19/2020

Sampling Date:

02/17/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001

Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

S-04

Project Number: Project Location: BATTERY (1-2-20) OXY - MALJAMAR

mg/kg

Sample ID: SP 3 @ 5' (H000525-16)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.18	1.00	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	40.3	1.00	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	43.0	1.00	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	113	3.00	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	197	6.00	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	144	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

194

180

96.9

90.1

200

200

1.78

5.45

02/21/2020

02/21/2020

02/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 332 % 44.3-144
Surrogate: 1-Chlorooctadecane 249 % 42.2-156

1930

5590

850

50.0

50.0

50.0

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Celeg D. Freene

S-04



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: Reported:

BTEX 8021B

02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001

Project Location:

BATTERY (1-2-20) OXY - MALJAMAR

mg/kg

Sampling Date: 02/17/2020

Sampling Type: Soil

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

Sample ID: SP 3 @ 6' (H000525-17)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	0.051	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	0.174	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	0.967	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	1.19	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	133 %	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.8	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	342	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	53.5	10.0	02/21/2020	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane 95.4 % 44.3-144 Surrogate: 1-Chlorooctadecane 114% 42.2-156

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

02/19/2020

02/25/2020

Sampling Date: Sampling Type: 02/18/2020

Reported:

Soil

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Location:

OXY - MALJAMAR

Sample ID: SP 3 @ 7' (H000525-18)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	0.062	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	0.094	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	0.687	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	0.843	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.4	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	300	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	43.6	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	95.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111 9	% 42.2-15	6						

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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:

02/19/2020

Reported: Project Name: 02/25/2020

Project Number:

PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

Sampling Date:

02/18/2020 Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

OXY - MALJAMAR

Sample ID: SP 3 @ 8' (H000525-19)

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	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	<0.050	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	63.6	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	96.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104 %	6 42.2-15	6						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/19/2020

Sampling Date:

02/18/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 3 @ 9' (H000525-20)

	91	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	<0.050	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	92.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.2	% 42.2-15	6						

Analyzed By: MS

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: SP 3 @ 10' (H000525-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	<0.050	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	< 0.050	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	89.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.6	% 42.2-15	6						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

02/19/2020

Sampling Date:

02/18/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

ma/ka

Sample ID: SP 3 @ 11' (H000525-22)

BIEX 8021B	mg/	кg	Апанухе	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	<0.050	0.050	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.0	% 42.2-15	6						

Analyzed By: MC

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

DRO >C10-C28*

EXT DRO > C28 - C36

02/19/2020

Sampling Date:

02/18/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number: Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 4 @ SURFACE (H000525-23)

	9	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.93	2.00	02/20/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	32.8	2.00	02/20/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	33.3	2.00	02/20/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	91.2	6.00	02/20/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	160	12.0	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2770	50.0	02/21/2020	ND	194	96.9	200	1.78	

ND

ND

180

90.1

200

5.45

02/21/2020

02/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 487 % 44.3-144 Surrogate: 1-Chlorooctadecane 2020 % 42.2-156

51000

10100

50.0

50.0

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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: Reported:

BTEX 8021B

EXT DRO > C28 - C36

02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

mg/kg

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: SP 4 @ 1' (H000525-24)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.6	2.00	02/21/2020	ND	1.94	97.2	2.00	6.44	
Toluene*	215	2.00	02/21/2020	ND	1.96	97.9	2.00	6.60	
Ethylbenzene*	101	2.00	02/21/2020	ND	1.97	98.5	2.00	6.69	
Total Xylenes*	219	6.00	02/21/2020	ND	5.74	95.7	6.00	6.85	
Total BTEX	571	12.0	02/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Chloride, SM4500CI-B Analyte	mg ,	/kg Reporting Limit	Analyze Analyzed	d By: GM Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·		-	-		BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 02/24/2020	Method Blank		,	·		Qualifier S-06
Analyte Chloride	Result	Reporting Limit	Analyzed 02/24/2020	Method Blank		,	·		-
Analyte Chloride TPH 8015M	Result 32.0 mg/	Reporting Limit 16.0	Analyzed 02/24/2020 Analyze	Method Blank ND d By: MS	416	104	400	0.00	S-06

ND

02/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 332 % 44.3-144
Surrogate: 1-Chlorooctadecane 376 % 42.2-156

1900

50.0

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

02/19/2020

Sampling Date:

02/18/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

S-04

Project Number: Project Location:

OXY - MALJAMAR

ma/ka

228 %

42.2-156

Sample ID: SP 4 @ 2' (H000525-25)

B1EX 8021B	mg,	rky	Allalyze	а ву: м5					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.9	0.500	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	102	0.500	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	67.4	0.500	02/20/2020	ND	1.88	94.2	2.00	6.04	QM-07
Total Xylenes*	165	1.50	02/20/2020	ND	5.45	90.8	6.00	6.15	QM-07
Total BTEX	346	3.00	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	156	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2850	50.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	5630	50.0	02/21/2020	ND	180	90.1	200	5.45	
		F0 0	02/21/2020	ND					
EXT DRO >C28-C36	816	50.0	02/21/2020	ND					

Analyzed By: MC

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

BATTERY (1-2-20) OXY - MALJAMAR Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: SP 4 @ 3' (H000525-26)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	14.3	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	94.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.1	% 42.2-15	6						

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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:

02/19/2020

Sampling Date:

02/18/2020

Reported: Project Name: 02/25/2020

Sampling Type:

Soil

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 4 @ 4' (H000525-27)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	90.5 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.4 %	6 42.2-15	6						

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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:

02/19/2020

Sampling Date:

02/18/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 4 @ 5' (H000525-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	0.230	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	0.381	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	1.37	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	1.98	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.2	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	360	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	47.7	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102 9	6 42.2-15	6						

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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: Reported:

BTEX 8021B

GRO C6-C10*

DRO >C10-C28*

EXT DRO > C28 - C36

02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

mg/kg

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: SP 4 @ 6' (H000525-29)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

194

180

96.9

90.1

200

200

1.78

5.45

02/21/2020

02/21/2020

02/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 91.9 % 44.3-144
Surrogate: 1-Chlorooctadecane 104 % 42.2-156

<10.0

92.0

11.4

10.0

10.0

10.0

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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: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001

Project Location:

BATTERY (1-2-20)

OXY - MALJAMAR

Sampling Date: 02/18/2020

Sampling Type: Soil

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

Sample ID: SP 4 @ 7' (H000525-30)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.8 %

73.3-129

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					

Surrogate: 1-Chlorooctane

98.3 %

44.3-144

Surrogate: 1-Chlorooctadecane

102 %

42.2-156

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/19/2020

02/25/2020

OXY - MALJAMAR

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

Sampling Date:

Sampling Condition:

Sample Received By:

02/18/2020

Sampling Type: Soil

Cool & Intact

Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H000525-31)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	194	96.9	200	1.78	
DRO >C10-C28*	58.9	10.0	02/21/2020	ND	180	90.1	200	5.45	
EXT DRO >C28-C36	13.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	93.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104 9	% 42.2-15	6						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

DRO >C10-C28*

EXT DRO > C28 - C36

02/19/2020

Reported:

Project Name:

Project Number: Project Location: 02/25/2020

mg/kg

PLUMA 29 STATE #001 BATTERY (1-2-20) OXY - MALJAMAR

Sampling Date:

02/18/2020 Soil

Sampling Type: Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: SP 5 @ 1' (H000525-32)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.218	0.050	02/21/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	1.82	0.050	02/21/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	0.670	0.050	02/21/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	1.17	0.150	02/21/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	3.88	0.300	02/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.1	10.0	02/21/2020	ND	198	99.2	200	0.403	

ND

ND

186

93.0

200

1.55

02/21/2020

02/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 91.3 % 44.3-144 Surrogate: 1-Chlorooctadecane 384 % 42.2-156

8190

1720

10.0

10.0

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/19/2020

Sampling Date:

02/18/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 5 @ 2' (H000525-33)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	99.7 % 73.3-129							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

44.3-144 42.2-156

93.4 %

97.6 %

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/19/2020

Sampling Date:

02/18/2020

Reported:

02/25/2020

Sampling Type:

Soil

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 5 @ 3' (H000525-34)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	,		9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	93.5	% 44.3-14	4						

Analyzed By: MS

 Surrogate: 1-Chlorooctadecane
 95.3 %
 44.5-144

 Surrogate: 1-Chlorooctadecane
 95.2 %
 42.2-156

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported:

RTFY 8021R

02/19/2020

02/25/2020

PLUMA 29 STATE #001

Project Number: Project Location:

Project Name:

BATTERY (1-2-20)

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

OXY - MALJAMAR

Sample ID: SP 6 @ SURFACE (H000525-35)

B1EX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	<0.050	0.050	02/20/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500Cl-B	<i>y</i>		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					
Surrogate: 1-Chlorooctane	95.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.0	% 42.2-15	6						

Analyzed By: MC

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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: Reported: 02/19/2020

02/25/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 6 @ 1' (H000525-36)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.121	0.050	02/21/2020	ND	1.87	93.7	2.00	5.20	
Toluene*	0.950	0.050	02/21/2020	ND	1.87	93.7	2.00	5.88	
Ethylbenzene*	0.362	0.050	02/21/2020	ND	1.88	94.2	2.00	6.04	
Total Xylenes*	0.837	0.150	02/21/2020	ND	5.45	90.8	6.00	6.15	
Total BTEX	2.27			ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/22/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	22900	50.0	02/22/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	9170	50.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	97.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	1290	% 42.2-15	6						

Cardinal Laboratories

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

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-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Page 55 of 9

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

Company Name	BBC International, Inc.								1	E	3//	LL TO							ANA	LYSI	S RI	EQU	EST	1		
Project Manage	r: Cliff Brunson							P.C	O. #.	·											2.86					
Address: P.O.	Box 805							Со	mp	any:	0	YX					- 1									
city: Hobbs	State: NM	Zip	: 8	824	1			Att	n:	WA	D	E														
Phone #: 575-	397-6388 Fax #: 575-	-397	7-03	397				Ad	dre	ss:																
Project #:	Project Owner	: O	сy					Cit	y:																	
Project Name:	Pluma 29 St 1 Battery (1-2-20)							Sta	ate:			Zip:		ĺ												
Project Location	n: Lea County, NM								one	#:		•														
Sampler Name:								Fa	x #:	171. P. T. T.				Ì												
FOR LAB USE ONLY					MA	TRI	X		PRI	ESEF	RV.	SAMPLI	ING	İ												
Lab I.D.	CG)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER WASTEWATER										OTHER:	DATE	TIME	ر. ا		STEX	たみでア									
1	North @ Surface	9	1		1	T-	SLUDGE	OTHER:	ACID/BASE:	- ICE / COOL		2/17/20	8:45 AM	1	1		1								\neg	
2	East @ Surface	1	1		1					١		2/17/20	9:00 AM	1	1	' ,	/									
3	West @ Surface	П	П							1		2/17/20	9:20 AM	1	1	/	/									
4	South @ Surface		Ш									2/17/20	9:40 AM	1	1	′ ,	/									
5	SP1 @ Surface		Ш									2/17/20	10:05 AM	1	✓	' ,	/									
6	SP1 @ 1'											2/17/20	10:25 AM	1	1	' ,	/									
7	SP1 @ 2'	1	Ш									2/17/20	10:50 AM	1	1	/ ,	/									
8	SP2 @ Surface	1										2/17/20	11:45 AM	✓	✓	'	/									
9	SP2 @ 1'	1	\perp									2/17/20	12:40 PM	✓	1	'	/									
DI FASE NOTE: UNIT	SP2 @ 2'	1	1		4		1	_	Ļ	Ÿ		2/17/20	1:20 PM	✓	✓		√									
analyses. All claims includi service. In no event shall C affiliates or successors aris	nd Damages Cardina's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall be rardinal be liable for incidental or consequental damages, including ng out of or related to the performance of services hereunder by C	deemed without ardinal	t limita regar	d unless tion, but dless of	s made siness ii whethe	in writ nterrup	ing and otions,	rece loss o	ived b	y Cardi or loss	nal w	vithin 30 days after of its incurred by	er completion of the client, its subsidia	ne applic iries,	1419100											52
-	Time: 5:00 pm	, Re	J	С	dy:	e Co	nditi	Con	le	CHE		EDBY:	Phone Res Fax Resul REMARKS	t:		Yes Yes		No No	Add'I Add'I	Phone Fax #:				2		

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

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Sampler - UPS - Bus - Other:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

2 of 4

	(505) 393-2326 FAX (5		,			_	_	_		NIE.		-		T S III II				15		31016		3:15		 	
	BBC International,	Inc.						\dashv	-	- 4		3 II L	LL TO				O.	- /	ANAL	YSIS	RE	QUE	51	 	
	r: Cliff Brunson			-		-		-	-	0. #:		-	Smoother, as								= =				
Address: P.O.									i —				YX				*	7.3							
city: Hobbs		State: NM	Zip:	. 8	8241	<u> </u>			Att	n: V	WA	VD'	E						E.			*			i - 1
Phone #: 575-3		Fax #: 575-			397				Ad	ldres	ss:														
Project #:		Project Owner:	: Ox	(y					City	y:									3.5						
Project Name: F	Pluma 29 St 1 Battery	(1-2-20)							Sta	ate:		Î	Zip:							* .					
Project Location	n: Lea County, NM								Ph	one	#:						H				"				
Sampler Name:	The same of the sa								Fa	x #:															
FOR LAB USE ONLY			MA	TRIX	X	\Box	PRE	ESEF	٦V.	SAMPLI	NG														
Lab I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER									ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	<u>ت</u>	BIEK	TPH EXT								
11	SP3 @ Surface		G	1		SOIL					1		2/17/20	1:35 PM	1	✓	1								
12	SP3 @ 1'		1								1		2/17/20	2:00 PM	1	1	1								
13	SP3 @ 2'												2/17/20	2:20 PM	1	1	1							:::	
14	SP3 @ 3'												2/17/20	2:42 PM	1	1	1								
15	SP3 @ 4'												2/17/20	3:05 PM	1	1	1								
16	SP3 @ 5'												2/17/20	3:20 PM	1	1	1								
16	SP3 @ 6'												2/17/20	3:40 PM	1	1	1								
18	SP3 @ 7'												2/18/20	8:40 AM	1	✓	1								
19	SP3 @ 8'												2/18/20	9:05 AM	1	✓	1								
20	SP3 @ 9'		7	V		4					1		2/18/20	9:28 AM	1	✓	1								
analyses. All claims includi service. In no event shall C affiliates or successors arisi Relinquished B	Rende	use whatsoever shall be dental damages, including services hereunder by Control of the control o	deemed g without Cardinal, Red	d waive ut limita I, regard eceiv	ed unless ation, busin dless of w ved By	made in iness into whether y:	in writii nterrup r such	ting and ptions, le claim is	loss of	erved by of use, o	oy Cardi or loss on any	dinal wi s of pro of the	vithin 30 days after rofits incurred by o	er completion of th client, its subsidiar	ne applica ines, se. sult: t:	□ Yes			Add'I	Phone Fax #:	#:				
Relinquished B	By:	Date: 2-19-20 Time: 2-99-640	Re		ved By	y: M	ar	4a onditi	7	4	la	de	BK KED BY:												

(Initials)

Cool Intact
Yes Yes
No No

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

	(505) 393-2326 FAX (505) 393-247	76																					014
Company Name	BBC International, Inc.									B	3//	LL TO					ANA	LYSI	S RE	QUE	ST		
Project Manage	r: Cliff Brunson							P.0	0. #:														
Address: P.O.	Box 805							Co	mpa	ny:	0	XY											
city: Hobbs	State: NM	Zip	o: 8	3824	11			At	tn: V	NA	D	E											
Phone #: 575-	397-6388 Fax #: 575	5-39	7-0	397				Ac	dres	s:													
Project #:	Project Owne	r: O	ху					Cit	ty:														
Project Name:	Pluma 29 St 1 Battery (1-2-20)							Sta	ate:		- 69	Zip:											
Project Location	n: Lea County, NM							Ph	one	#:						25							
Sampler Name:	Simon Rendon							Fa	x #:														
FOR LAB USE ONLY		_8	Π		M	ATRI	Х		PRE	SER	٧.	SAMPL	ING										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAIN	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	סו	BTEX	TPH EXT							
2	SP3 @ 10'	0			1					1		2/18/20	10:00 AM	1	1	✓							
	SP3 @ 11'				ı					1		2/18/20	10:22 AM	1	1	1							
	SP4 @ Surface	Ш	Ш									2/18/20	10:35 AM	1	1	1							
24												2/18/20	10:45 AM	1	1	1							
	SP4 @ 2'											2/18/20	11:00 AM	1	1	1						0	
	SP4 @ 3'		П									2/18/20	3:20 PM	1	1	1							
	SP4 @ 4'											2/18/20	11:35 AM	1	1	1							
28	SP4 @ 5'											2/18/20	11:50 AM	1	1	1							
79	SP4 @ 6'											2/18/20	12:15 PM	1	1	1							
30	SP4 @ 7'	1	1		1	/				4		2/18/20	1:10 PM	1	1	1							
	nd Damages. Cardinal's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall bi														ble								

Relinquished By:	Date:	Received By:)	Phone Result:	☐ Yes	□ No	Add'l Phone #:
	2/18/20	1 01	/	Fax Result:	☐ Yes	□ No	Add'l Fax #:
Sim Kenten	Time: ち:のアル	Mall TH	na	REMARKS:			
Relinquished By:		Received By:	11/1/				
maethma	Time: 8 MAKE	Jamara A	lasty				
Delivered By: (Circle One)	1400	Sample Condition	CHECKED BY:				
Sampler - UPS - Bus - Other:	3c #	Cool Intact Yes Yes No No	(Initials)				

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Page 58 of 97

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ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

Company Name	BBC International Inc					_	T	_	136	BI	LL TO						ΔΝΔ	LYSL	S RF	QUE	ST		
	ompany Name: BBC International, Inc. roject Manager: Cliff Brunson ddress: P.O. Box 805															Т	T	1		T	<u> </u>		
								om	pan	y: C	XY		1					-				F	
city: Hobbs	State: NM	Zir	o: 8	38241					-	IAD			1										
Phone #: 575-	ANTONIO DEN BENCO	5-39						20 00	ress				i			1							
Project #:	Project Owner							ity:															
CONTRACTOR CONTRACTOR CONTRACTOR	Pluma 29 St 1 Battery (1-2-20)	12.0%	570					state			Zip:		i										
	n: Lea County, NM								ne #	:													
Sampler Name:								ax	222	M													
FOR LAB USE ONLY	R LAB USE ONLY							-	-	ERV.	SAMPL	ING											
Lab I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER										DATE	TIME	C	BIEX	TPH EVT								
31	SP5 @ Surface	G	1		SOIL	OIL		OTHEK:	ICE / CO	OTHER:	2/18/20	1:25 PM	1	1	1		ľ						
	SP5 @ 1'	1	1		1				1		2/18/20	1:40 PM	1	1	1								
33	SP5 @ 2'										2/18/20	1:50 PM	1	✓	✓								
3H 35	SP5 @ 3'	Ш	Ш								2/18/20	2:05 PM	1	1	1								
	SP6 @ Surface	Ш	П		1				-		2/18/20	2:15 PM	1	1	1								
36	SP6 @ 1'	1	1		4		4	_	4	r	2/18/20	2:30 PM	✓	✓	1								
		╁	╁	-	-		+	+	-	+			-				-						
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analyses. All claims includi service. In no event shall C	nd Damages Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be laridinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by	e deeme	ed warv	ed unless nation, busin	nade in ess inti	writing errupti	g and re ons, los	s of us	d by C se, or l	ardinal oss of p	within 30 days af rofits incurred by	er completion of the	he application	able									
Relinquished B			of Concession, Name of Street, or other	yed/By	and the latest design	,	11	1	иропъ	illy di ti	e above stated i	Phone Re	sult:	□ Ye		No		Phone					
(.	Time:	-	کے	pri	ue	K	7	w	14			Fax Resul		□ Ye	es L	No	Add'	Fax #:					-
	y: Date: 2-19: Time: 2:00 m (Circle One)	28	ecei	San	nple ol	Intac	ditio	les		HECK (Init	(ED BY:	-											

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



March 04, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLUMA 29 STATE #001

Enclosed are the results of analyses for samples received by the laboratory on 02/27/20 14:40.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported:

DTEV 0021D

02/27/2020

03/04/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

Sampling Date:

02/25/2020

Sampling Type:

Soil

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

OXY - MALJAMAR

Sample ID: SP 6 @ 2' (H000643-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/02/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	210	105	200	0.0833	
DRO >C10-C28*	22.4	10.0	02/29/2020	ND	202	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	89.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.9	% 42.2-15	6						

Applyand By CV

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number:

OXY - MALJAMAR

mg/kg

Project Location:

Sample ID: SP 6 @ 3' (H000643-02)

DIEX GOZID	1119/	<u>ng</u>	Allulyzo	a by. Cit					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	210	105	200	0.0833	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	202	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	89.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.7	% 42.2-15	6						

Analyzed By: CK

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/27/2020

03/04/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/25/2020

Sampling Type:

Soil

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

Sample ID: SP 7 @ SURFACE (H000643-03)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/02/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	849	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	269	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	83.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 9	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

EXT DRO >C28-C36

02/27/2020

Sampling Date: 02/25/2020

Reported:

03/04/2020

Sampling Type:

02/23/202 Soil

Project Name:

PLUMA 29 STATE #001

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

BATTERY (1-2-20) OXY - MALJAMAR

mg/kg

Sample ID: SP 7 @ 1' (H000643-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-12	9						
· ·									
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg ,	Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·			<u> </u>	-	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 03/02/2020	Method Blank		•	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 03/02/2020	Method Blank		•	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 16.0 mg/	Reporting Limit 16.0	Analyzed 03/02/2020 Analyze	Method Blank ND d By: CK	416	104	400	0.00	

ND

02/29/2020

Analyzed By: CK

Surrogate: 1-Chlorooctane 87.9 % 44.3-144
Surrogate: 1-Chlorooctadecane 89.1 % 42.2-156

<10.0

10.0

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Celeg D. Kreene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/27/2020

03/04/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/25/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 7 @ 2' (H000643-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.8	% 42.2-15	6						

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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:

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 8 @ SURFACE (H000643-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/29/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/29/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/29/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/29/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	15.4	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	87.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9	% 42.2-15	6						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 8 @ 1' (H000643-07)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/29/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/29/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/29/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/29/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Analyzed By: CK

Surrogate: 1-Chlorooctadecane 85.9 % 42.2-156

85.8 %

44.3-144

Surrogate: 1-Chlorooctane

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Celeg D. Kreene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001

Sampling Condition:

Cool & Intact

Project Number:

BATTERY (1-2-20)

Sample Received By:

Tamara Oldaker

Project Location:

OXY - MALJAMAR

Sample ID: SP 8 @ 2' (H000643-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	84.1 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.8 9	% 42.2-15	6						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

DRO >C10-C28*

EXT DRO >C28-C36

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 9 @ SURFACE (H000643-09)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M				I D 617					
	mg/	/kg	Analyze	d By: CK					
Analyte	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

207

103

200

0.558

02/29/2020

02/29/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 87.9 % 44.3-144 Surrogate: 1-Chlorooctadecane 91.0 % 42.2-156

<10.0

<10.0

10.0

10.0

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Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

RTFY 8021R

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

02/25/2020 Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

ma/ka

Sample ID: SP 9 @ 1' (H000643-10)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	88.6	% 42.2-15	6						
surrogate: 1-Chiorooctaaecahe	00.0	/0 42.2-13	U						

Analyzed By: MC

Cardinal Laboratories

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 9 @ 2' (H000643-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	86.1 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.4 9	% 42.2-15	6						

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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: Reported:

BTEX 8021B

02/27/2020

03/04/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

mg/kg

Sampling Date:

02/25/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: SP 9 @ 3' (H000643-12)

	9/	9	7.1.14.7.2	= 7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	81.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.3	% 42.2-15	6						

Analyzed By: MS

Cardinal Laboratories

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 10 @ SURFACE (H000643-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	30.1	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	84.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	90.5	% 42.2-15	6						

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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:

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001

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

Project Number:

BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sample ID: SP 10 @ 1' (H000643-14)

Benzene* <0.050 0.050 03/02/2020 ND 1.98 9 Toluene* <0.050 0.050 03/02/2020 ND 2.00 1 Ethylbenzene* <0.050 0.050 03/02/2020 ND 2.02 1	Recovery True Value QC RPD Qualifier 99.2 2.00 2.93 100 2.00 2.77
Toluene* <0.050 0.050 03/02/2020 ND 2.00 1 Ethylbenzene* <0.050 0.050 03/02/2020 ND 2.02 1 Total Xylenes* <0.150 0.150 03/02/2020 ND 5.89 9 Total BTEX <0.300 0.300 03/02/2020 ND	
Ethylbenzene* <0.050 0.050 03/02/2020 ND 2.02 1 Total Xylenes* <0.150 0.150 03/02/2020 ND 5.89 9 Total BTEX <0.300 0.300 03/02/2020 ND	100 2.00 2.77
Total Xylenes* <0.150 0.150 03/02/2020 ND 5.89 9 Total BTEX <0.300 0.300 03/02/2020 ND	
Total BTEX <0.300 0.300 03/02/2020 ND	101 2.00 2.79
<u> </u>	98.2 6.00 2.81
Surrogate: 4-Bromofluorobenzene (PID 100 % 73.3-129	
Chloride, SM4500Cl-B mg/kg Analyzed By: AC	
Analyte Result Reporting Limit Analyzed Method Blank BS % Re	Recovery True Value QC RPD Qualifier
Chloride 32.0 16.0 03/02/2020 ND 416 1	104 400 0.00
TPH 8015M mg/kg Analyzed By: CK	
Analyte Result Reporting Limit Analyzed Method Blank BS % Re	Recovery True Value QC RPD Qualifier
GRO C6-C10* <10.0 10.0 02/29/2020 ND 213 1	107 200 0.193
DRO >C10-C28* <10.0 10.0 02/29/2020 ND 207 1	103 200 0.558
EXT DRO >C28-C36 <10.0 10.0 02/29/2020 ND	
Surrogate: 1-Chlorooctane 89.0 % 44.3-144	
Surrogate: 1-Chlorooctadecane 91.3 % 42.2-156	

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/27/2020

03/04/2020

OXY - MALJAMAR

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

Sampling Date: Sampling Type: 02/25/2020

Soil

Cool & Intact

Sampling Condition: Sample Received By: Tamara Oldaker

Sample ID: SP 10 @ 2' (H000643-15)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	83.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.5	% 42.2-15	6						

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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: Reported: 02/27/2020

03/04/2020

PLUMA 29 STATE #001

Project Number: Project Location:

Project Name:

BATTERY (1-2-20)

OXY - MALJAMAR

Sampling Date: 02/25/2020

Sampling Type: Soil

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

Sample ID: SP 11 @ SURFACE (H000643-16)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	82.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.0	% 42.2-15	6						

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Celeg D. Keine



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported:

RTFY 8021R

02/27/2020

03/04/2020

Project Name: Project Number: BATTERY (1-2-20)

OXY - MALJAMAR

ma/ka

Project Location:

PLUMA 29 STATE #001

Sampling Date:

02/25/2020

Sampling Type: Sampling Condition: Soil Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: SP 11 @ 1' (H000643-17)

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	44.9	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	12.4	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	66.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	73.4	% 42.2-15	6						

Analyzed By: MC

Cardinal Laboratories

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

02/27/2020

03/04/2020

Sampling Date: Sampling Type: 02/25/2020

Reported: Project Name:

PLUMA 29 STATE #001

ing Type:

Soil

Project Number:

BATTERY (1-2-20)

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

Project Location:

OXY - MALJAMAR

ma/ka

Sample ID: SP 11 @ 2' (H000643-18)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	74.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	76.9	% 42.2-15	6						

Analyzed By: MC

Cardinal Laboratories

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 12 @ SURFACE (H000643-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.2 9	% 42.2-15	6						

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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:

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001

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

Project Number: Project Location:

BATTERY (1-2-20) OXY - MALJAMAR

Sample ID: SP 12 @ 1' (H000643-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (Pl	ID 99.5 %
-------------------------------------	-----------

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	48.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane

71.9 %

44.3-144

Surrogate: 1-Chlorooctadecane

71.7 %

42.2-156

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/27/2020

Sampling Date:

02/25/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location: BATTERY (1-2-20)

OXY - MALJAMAR

mg/kg

Sample ID: SP 12 @ 2' (H000643-21)

	****31	9		/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	< 0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	< 0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	77.3	% 44.3-14	'4						
~									

Analyzed By: MS

Surrogate: 1-Chlorooctadecane

77.2 %

42.2-156

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 13 @ SURFACE (H000643-22)

DIEX COLLE	9/	9	Andryze	u 27. 1.13					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	0.193	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	207	103	200	0.558	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	89.1 9	% 44.3-14	4						

Analyzed By: MS

Surrogate: 1-Chlorooctadecane 90.0 % 42.2-156

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition:

Cool & Intact

Project Number: Project Location:

OXY - MALJAMAR

Sample Received By:

Tamara Oldaker

Sample ID: SP 13 @ 1' (H000643-23)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	2.93	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.89	98.2	6.00	2.81	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	218	109	200	2.14	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	208	104	200	5.79	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.4	% 42.2-15	6						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

EXT DRO >C28-C36

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 13 @ 2' (H000643-24)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg ,	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·			<u> </u>	-	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte	Result	Reporting Limit	Analyzed 03/02/2020	Method Blank		,	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 03/02/2020	Method Blank		,	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 32.0	Reporting Limit 16.0	Analyzed 03/02/2020 Analyze	Method Blank ND d By: CK	400	100	400	3.92	

ND

02/29/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 81.6 %
Surrogate: 1-Chlorooctadecane 81.6 %

<10.0

10.0

44.3-144

42.2-156

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported:

Project Name:

02/27/2020

03/04/2020

Project Number: Project Location: PLUMA 29 STATE #001 BATTERY (1-2-20)

OXY - MALJAMAR

Sampling Date: 02/26/2020

Sampling Type: Soil

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

Sample ID: SP 14 @ SURFACE (H000643-25)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

97.4 %

73.3-129

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2020	ND	400	100	400	3.92	
PH 8015M mg/kg		/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	218	109	200	2.14	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	208	104	200	5.79	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane

85.8 %

44.3-144

Surrogate: 1-Chlorooctadecane

89.4 %

42.2-156

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

02/26/2020 Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

mg/kg

Sample ID: SP 14 @ 1' (H000643-26)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
· ·									
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg / Result	Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
•			-	-	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte	Result	Reporting Limit	Analyzed 03/02/2020	Method Blank		,	•		Qualifier
Analyte Chloride	Result <16.0	Reporting Limit	Analyzed 03/02/2020	Method Blank		,	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result <16.0	Reporting Limit 16.0	Analyzed 03/02/2020 Analyze	Method Blank ND d By: CK	400	100	400	3.92	

ND

02/29/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 88.9 % 44.3-144
Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

<10.0

10.0

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EXT DRO >C28-C36

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Soil

Project Name:

PLUMA 29 STATE #001

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

BATTERY (1-2-20)

Sample Received By:

Tamara Oldaker

Project Location:

OXY - MALJAMAR

Sample ID: SP 14 @ 2' (H000643-27)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	190	94.8	200	1.02	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	187	93.3	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	83.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.1	% 42.2-15	6						

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*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

OXY - MALJAMAR

ma/ka

Sample ID: SP 15 @ SURFACE (H000643-28)

B1EX 8021B	mg/	^и кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	190	94.8	200	1.02	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	187	93.3	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.4	% 42.2-15	6						

Analyzed By: MC

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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:

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20)

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

Project Number:

Project Location:

OXY - MALJAMAR

Sample ID: SP 15 @ 1' (H000643-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	< 0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	190	94.8	200	1.02	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	187	93.3	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	83.4 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.8 9	% 42.2-15	6						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

BTEX 8021B

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

Analyte

GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

OXY - MALJAMAR

mg/kg

Sample ID: SP 15 @ 2' (H000643-30)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Chloride	<16.0	16.0	03/02/2020	ND	400	100	400	3.92	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Total BTEX	<0.300	0.300	03/02/2020	ND					
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Method Blank

ND

ND

ND

BS

190

187

% Recovery

94.8

93.3

True Value QC

200

200

RPD

1.02

1.93

Qualifier

Analyzed

03/03/2020

03/03/2020

03/03/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 81.8 % 44.3-144
Surrogate: 1-Chlorooctadecane 84.1 % 42.2-156

Result

<10.0

<10.0

<10.0

Reporting Limit

10.0

10.0

10.0

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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:

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition:

Cool & Intact

Project Number: Project Location:

OXY - MALJAMAR

Sample Received By: Tamara Oldaker

Sample ID: SP 16 @ SURFACE (H000643-31)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2020	ND	187	93.5	200	0.778	
DRO >C10-C28*	<10.0	10.0	03/02/2020	ND	182	90.9	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	03/02/2020	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	90.5	% 42.2-15	6						

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Celegy Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: Reported: 02/27/2020

03/04/2020

Project Name: Project Number: PLUMA 29 STATE #001 BATTERY (1-2-20)

Project Location:

OXY - MALJAMAR

Sampling Date:

02/26/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 16 @ 1' (H000643-32)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2020	ND	187	93.5	200	0.778	
DRO >C10-C28*	<10.0	10.0	03/02/2020	ND	182	90.9	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	03/02/2020	ND					
Surrogate: 1-Chlorooctane	84.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.9	% 42.2-15	6						

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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:

02/27/2020

Sampling Date:

02/26/2020

Reported:

03/04/2020

Sampling Type:

Soil

Project Name:

PLUMA 29 STATE #001 BATTERY (1-2-20) Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - MALJAMAR

Sample ID: SP 16 @ 2' (H000643-33)

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	03/02/2020	ND	1.98	98.8	2.00	0.314	
Toluene*	<0.050	0.050	03/02/2020	ND	2.01	100	2.00	0.153	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.01	101	2.00	0.245	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.84	97.3	6.00	0.547	
Total BTEX	<0.300	0.300	03/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

98.1 %

73.3-129

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte I	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2020	ND	187	93.5	200	0.778	
DRO >C10-C28*	<10.0	10.0	03/02/2020	ND	182	90.9	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	03/02/2020	ND					

Surrogate: 1-Chlorooctane

77.4 %

44.3-144

Surrogate: 1-Chlorooctadecane

78.0 %

42.2-156

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

Company Name: BBC International, Inc.									B	11	L TO					88	ANAL	YSIS	RE	QUE	ST			
					-		P.0	o. #:																
A TABLE DO CONTROL DINGS OF STREET	Cliff Brunson					_	-	-	any:	0	XY													
Address: P.O.	State: NM	7:	. 8	824	1		_	-	WA															
City: Hobbs								ldres																
Phone #: 575-3	97-6388 Fax #: 575-			91				ty:	55.															
Project #: Project Owner: Oxy										-	7:				1						1			
Project Name: Pluma 29 St 1 Battery (1-2-20)									#:		Zip:				I						1			
Project Location	Project Location: Lea County, NM																							
Sampler Name:	Simon Rendon	_			MAT	RIY	Fa	X#:	ESER	vI	SAMPLI	NG												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE OTHER:			OTHER:	DATE	TIME	C.	втех	TPH EXT									
1-10000001	SP6 @ 2'	G	1		ı				1		2-25-20	9:05 AM	1	1	✓				-		1			
2	SP6 @ 3'	1	1		1				1		2-26-20	1:50 PM	1	1	1			-	-	-	1			-
3	SP7 @ Surface		11								2-25-20	9:35 AM	1	√	1	9	-	-			1			
U	SP7 @ 1'										2-25-20	9:57 AM	1	1	√		4		1	_	-			
5	SP7 @ 2'		П						Ш		2-25-20	10:22 AM		1	1			-				-		
6	SP8 @ Surface	11	П						\perp		2-25-20	10:40 AM		1	1		_	-	-	+-	+			-
7	SP8 @ 1'		П					\perp			2-25-20	11:00 AM	-	1	1	-	-	-4-	-	-	-			-
X	SP8 @ 2'	П							\perp		2-25-20	11:22 AM		1	V	.		-	-	4	+	-		-
9	SP9 @ Surface	1	П		1.			_	1		2-25-20	11:42 AV	-	1	1		+	+			+	-		
10	SP9 @ 1'	4	14	1	ather base	d in cor	ntract or	tort sh	all be lir	mited	2-25-20	12:00 PM	or the	٧	V				-					
analyses. All claims include	and Damages. Cardinal's liability and client's exclusive remedy for gring those for negligence and any other cause whatsoever shall be Cardinal be liable for incidental or consequental damages, includi sing out of or related to the performance of services hereunder by	deen	eu wa	ved dille	NO POSE IN	torrupt	one los	e of use	e or los	sofe	profits incurred by	client, its subsid	liaries,											
Relinquished E	Relinquished By: Relinquished By: Date: 2/26/70 Time: 5:00 pm Received By: Date: 2-27-20 Received By:								Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS:															
Ina	eltena Time: 8:00	20 un	>	M	Sample	W. Cou	M	de	CH	EC	KED BY:													
The Nation said of John The	Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 0.3 c #1/3 Sample C Cool In Fres I No I No I							(Initials)																

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 2 of 4

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476										-		al Trans						1/010				 	
	: BBC International, Inc.							TIR)		BI	LL TO						ANAI	LYSIS	RE	QUE	31	 	
Project Manage	r: Cliff Brunson							P.C	. #:														
Address: P.O.	Box 805							Cor	npa	ny: (YXC												
city: Hobbs	State: NM	Zip	: 8	382	41			Att	n: V	VAI	E												
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397	6			Add	dres	s:													
Project #: Project Owner: Oxy								City	/ :														
Project Name:	Pluma 29 St 1 Battery (1-2-20)							Sta	te:		Zip:												
Project Location	n: Lea County, NM							Pho	one	# :													
Sampler Name:								Fax	(#:														
FOR LAB USE ONLY		Ι.			M.A	TRI	K		PRE	SERV	SAMPL	ING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	CL	втех	трн ехт								
1	SP9 @ 2'	3	1		I	9					2-25-20	12:45 PM	1	1	1								
12	SP9 @ 3'	1	1		1						2-25-20	1:05 PM		1	1								
13	SP10 @ Surface										2-25-20	1:25 PM	1	1	1								
14	SP10 @ 1'	П									2-25-20	1:40 PM	1	1	1								
15	SP10 @ 2'	П	П								2-25-20	2:10 PM	1	1	1								
16	SP11@ Surface	11	II								2-25-20	2:25 PM	1	✓	1								
17	SP11 @ 1'		II								2-25-20	2:45 PM	1	1	1								
7	SP11 @ 2'	П	П								2-25-20	3:10 PM	1	1	1								
19	SP12 @ Surface	I									2-25-20	3:20 PM	1	1	1								
	SP12 @ 1'	1	14		1	1			1	7	2-25-20	3:35 PM	1	1	1								
PLEASE NOTE: Liability a	and Damages. Cardinal's liability and client's exclusive remedy for	any cla	im ari	sing wh	ether bas	ed in c	ontrac	t or tor	t, shall	be limite	d to the amount p	aid by the client fo	r the										

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affiliates or successors arising out of or felated to the perfor	mance of services hereunder by C	ardinal, regardless of whether such claim is b	ased upon any of the above stated re	asons or otherwise.	and the same of th		
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Charles I land	Time:	MALLIAUAL	11/1/26/1	l			
- SUALITERIO	8:00	Valuatu &	eller ye	1			
Delivered By: (Circle One)	1440	Sample Condition	CHECKED BY:				
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Sampler - UPS - Bus - Other:	03	#13 Yes Tes	7				
	-0.00 7	71/O □ No □ No	1 -				

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.									BILL TO ANALYSIS REQUEST														
	: Cliff Brunson						P.0	.#:														1	
Address: P.O.							Con	npany	: 0	XY			i l										
city: Hobbs	State: NM	Zir	o: 8	382	41	_	_	: W/											i l				
Phone #: 575-3								lress:															
	Project Owne			7.5.1			City	r:				1											
Project #:	Pluma 29 St 1 Battery (1-2-20)						Sta		E	Zip:			11						1				
						_		one #:		1													
Project Location						_	Fax															11	
Sampler Name: FOR LAB USE ONLY	Sillion Rendon	Ī	T		MATRI	_		PRESE	RV.	SAMPLI	NG			0									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	TAIN	GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME	G.	втех	трн ехт									
21	SP12 @ 2'	C	1					1		2-25-20	3:47 PM	V	1	1									-
22	SP13 @ Surface	1						1		2-26-20	9:00 AM	-	1	V									
73	SP13 @ 1'									2-26-20	9:20 AM		1	1			-	-	-	-			
24	SP13 @ 2'	П	П	1				-4		2-26-20	9:45 AM	-	1	V			1		-				-
25	SP14@ Surface	Ц	Ш					\Box		2-26-20	10:10 AM		1	1						-			
26	SP14 @ 1'		Ш			_			1	2-26-20	10:22 AM	, v	V	1			+	-					
23	SP14 @ 2'		Ш			_				2-26-20	10:40 AM		1	V			-	-					-
28	SP15@ Surface			1						2-26-20	11:00 AM	-	1	1		_	-	-	-	-			
79	SP15 @ 1'	\perp				1				2-26-20	11:17 AM	1	1	1	-		-						+
30	SP15 @ 2'	1	14	7	4			4	li anita a	2-26-20 to the amount pa	11:35 AM	or the	V	✓									

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

affiliates of successors arising out of of related to the performance	of services hereunder by Cardinal, regard	ess of whether such claim is base	d upon any or the above stated rea	Phone Result:	□ Yes	□ No	Add'l Phone #:
Relinquished By: /	Date: Receive	ed by:	/	Fax Result:	□ Yes	□ No	Add'l Fax #:
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Page 97 of 97

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	(505) 393-2326 FAX (505) 393-247	6						+															
	BBC International, Inc.							BILL TO										LYSIS	RE	QUE	ST		
Project Manage	r: Cliff Brunson							P.C	D. #:						11								
Address: P.O.	. Box 805							Со	mpa	ıny: (YXC												
City: Hobbs State: NM Zip: 88241								Att	n: 1	NAC	DE												
Phone #: 575-	397-6388 Fax #: 575	-6388 Fax #: 575-397-0397							dres	s:													
Project #: Project Owner: Oxy								Cit	y:														
Project Name: Pluma 29 St 1 Battery (1-2-20)								Sta	ite:		Zip:												
Project Location	n: Lea County, NM							Ph	one	#:	nite												
Sampler Name:	Simon Rendon								x #:														
FOR LAB USE ONLY		0.		-	M	ATRI	X		PRE	SERV	. SAMPI	ING					1						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	OL.	втех	трн ехт							v	
31	SP16@ Surface	G	1		1	1				1	2-26-20	12:00 PM	1	1	1								
	SP16 @ 1'	1	1		1						2-26-20	12:50 PM	1	1	1								
33	SP16 @ 2'	1	1		•	b				1	2-26-20	1:20 PM	1	✓	1								
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The second and containing the second	1-1-10	Cool Intact	(Initials)				
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