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E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

OXY – STERLING SILVER 34 FEDERAL 2 CTB (Leak Date: 6/12/18)

RP # 2RP-4824

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-4824.

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 areas near SP1, SP2, and SP4 (GREEN shade on diagram) will be excavated to a depth of 6 inches. The leak area near SP3 and SP5 (YELLOW shade on diagram) will be excavated to a depth of 1 foot.

Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 105 cubic yards. The remediation will be completed within 90 days of plan approval.

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

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

Form C-141

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4824
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?	102 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	2RP-4824
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 2-8-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	
District RP	2RP-4824
Facility ID	
Application ID	

Remediation Plan

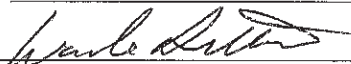
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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: 2-8-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Oxy, Sterling Silver 34 Federal 2 CTB

Leak date: 6/12/18
Eddy County, NM
AP# 30-015-27936
2RP-4824

- Legend**
- 1 ft Excavation
 - 6 in Excavation
 - Sample points
 - Leak Area



Oxy, Sterling Silver 34 Federal 2 CTB

Sample points

SP1, N 32.26313 W-103.77164

SP2, N 32.26315 W-103.77178

SP3, N 32.26299 W-103.77176

SP4, N 32.26299 W-103.77166

SP5, N 32.26306 W-103.77172

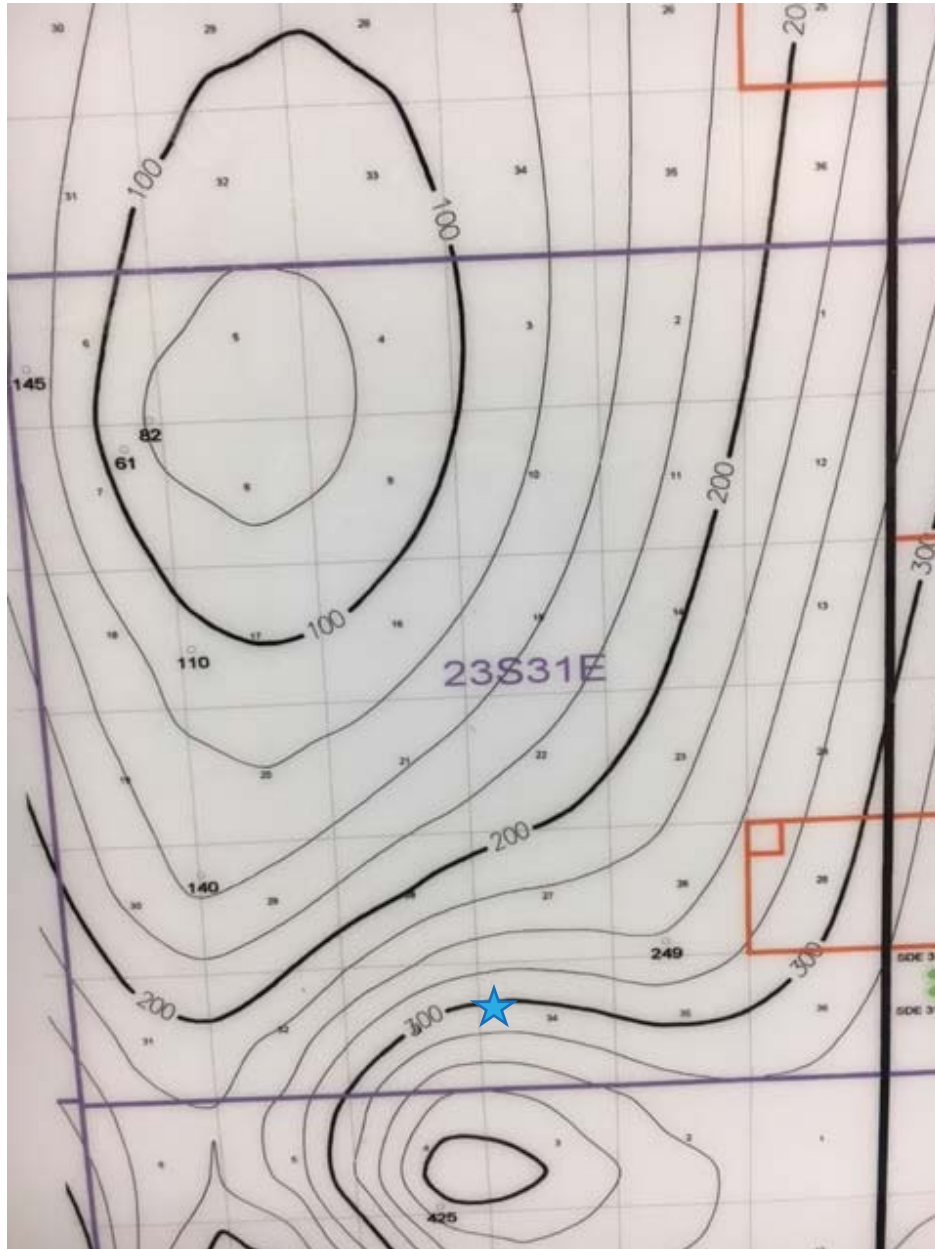
NORTH, N 32.26320 W-103.77171

SOUTH, N 32.26295 W-103.77172

EAST, N 32.26306 W-103.77161

WEST, N 32.26309 W-103.77183

Oxy, Sterling Silver 34 Federal 2 CTB
U/L E, Section 34, T23S, R31E
Groundwater: 300'





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- [Please see news on new formats](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321609103445901

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

USGS 321609103445901 23S.31E.26.34411

Eddy County, New Mexico
Latitude 32°16'11.9", Longitude 103°45'01.2" NAD83
Land-surface elevation 3,451.00 feet above NGVD29
The depth of the well is 365 feet below land surface.
This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur
1959-02-04		D	256.87				2	P	U	
1972-09-20		D	250.47				2		U	
1988-03-17		D	249.02				2		S	
2013-01-16	17:00 MST	m	101.55				2	P	S	USGS
2013-02-14	08:00 MST	m						P	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
Water-level accuracy		Not determined
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined

Section	Code	Description
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.
Water-level approval status	P	Provisional data subject to revision.

[Questions about sites/data?](#)

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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?>

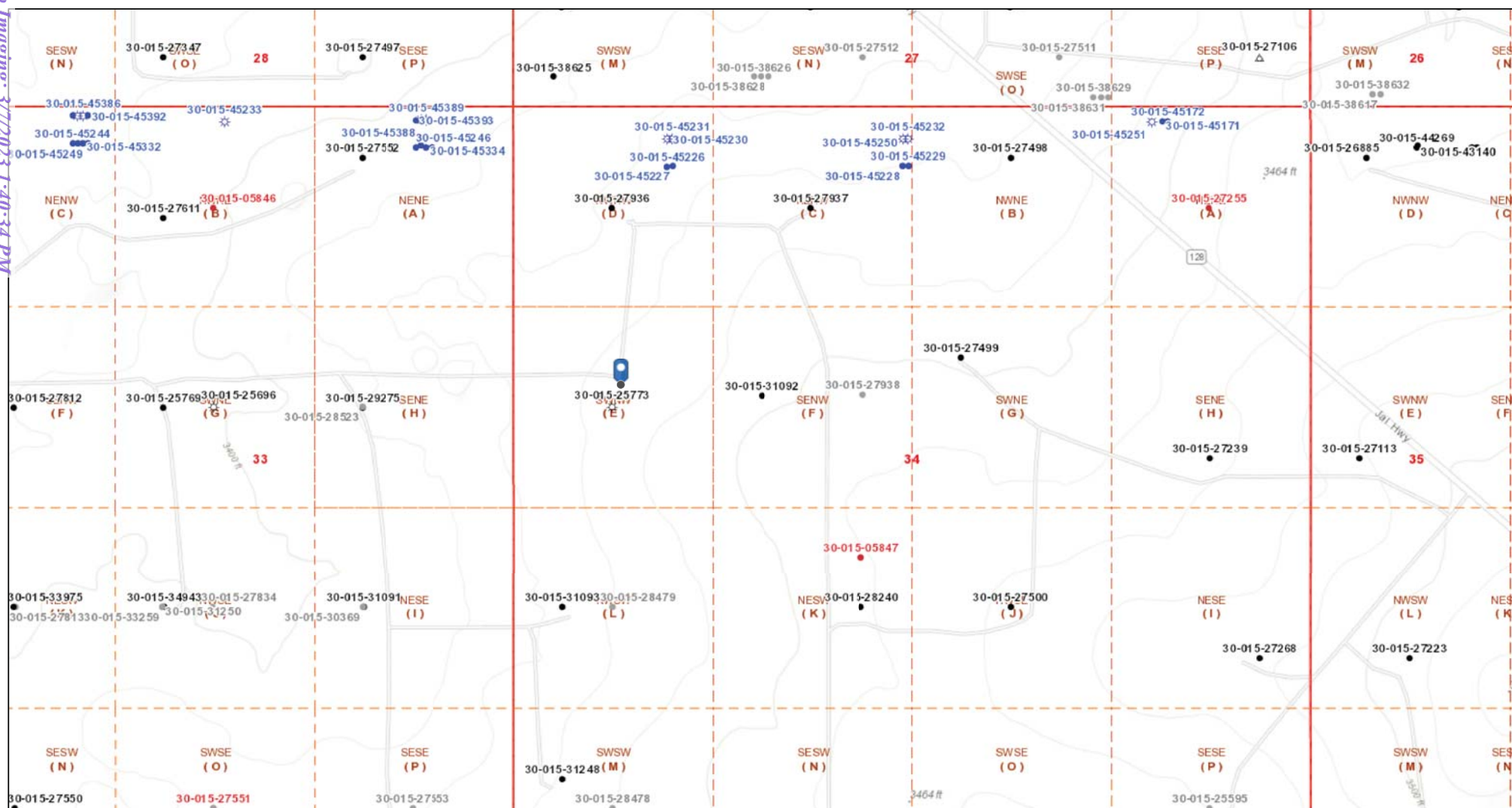


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-12-13 17:43:35 EST

0.49 0.41 nadww01

Sterling Silver 34 Fed 2 CTB, Topo Map with Water Features



12/13/2018 3:48:37 PM

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2 Plugged
- CO2 Temporarily Abandoned

Gas Active

- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active

Injection, Cancelled

- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled

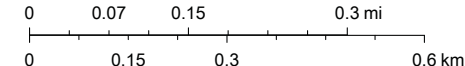
Oil, New

- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New

Salt Water Injection, Plugged

- Salt Water Injection Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged

1:9,028





Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, OCD, BLM

Oxy, Sterling Silver 34 Fed #2 CTB

Leak date: 6/12/18
Eddy County, NM
API# 30-015-27936

BLM CAVE KARST MAP

- Legend
-  Leak Area
 -  Low potential

Released to Imaging: 3/7/2023 1:40:34 PM

Received by OCD: 3/7/2023 1:38:56 PM

Google Earth

© 2018 Google

Twin Wells Rd



3000 ft

National Flood Hazard Layer FIRMette



32°16'2.48"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

USGS The National Map: Orthoimagery. Data refreshed October 2017.

32°15'32.06"N

Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/13/2018 at 5:56:32 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Received by Imaging: 3/7/2023 1:40:34 PM
M05 2:39:30P

Received by OCD: 3/8/2023 1:38:56 PM

Laboratory Analytical Results Summary
Sterling Silver 34 Federal #2 CTB (6/12/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 4'	SP1 @ 8'	SP1 @ 9'
Analyte	Method	Date	12/3/18	12/3/18	12/3/18	12/3/18	12/3/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		0.478	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.288	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		1.17	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		1.94	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		3680	8160	5520	400	416
GRO	TPH 8015M		<100	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		6600	79.9	n/a	n/a	n/a
EXT DRO	TPH 8015M		1740	46.3	n/a	n/a	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 3'	SP2 @ 8'	SP2 @ 9'
Analyte	Method	Date	12/3/18	12/3/18	12/3/18	12/4/18	12/4/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.065	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		0.57	0.07	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.253	0.067	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		1.18	0.258	n/a	n/a	n/a
Total BTEX	BTEX 8021B		2.07	0.395	n/a	n/a	n/a
Chloride	SM4500Cl-B		2240	6720	5920	256	272
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		5010	78.4	n/a	n/a	n/a
EXT DRO	TPH 8015M		1360	33.5	n/a	n/a	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	12/4/18	12/4/18	12/3/18	12/4/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.27	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.138	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.574	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		0.981	<0.300	n/a	n/a
Chloride	SM4500Cl-B		688	3200	352	352
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a
DRO	TPH 8015M		2960	17.2	n/a	n/a
EXT DRO	TPH 8015M		1430	<10.0	n/a	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 6'
Analyte	Method	Date	12/4/18	12/4/18	12/4/18	12/4/18	12/4/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		0.551	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.25	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		1.02	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		1.82	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		480	6560	704	256	304
GRO	TPH 8015M		<100	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		4830	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		2170	<10.0	n/a	n/a	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 6'	SP5 @ 7'
Analyte	Method	Date	12/4/18	12/4/18	12/4/18	12/4/18	12/4/18	12/4/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		5.65	2.08	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		4.47	2.19	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		17.1	7.62	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		27.2	11.9	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1230	1620	512	5040	256	272
GRO	TPH 8015M		1270	330	n/a	n/a	n/a	n/a
DRO	TPH 8015M		7910	3730	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		2400	991	n/a	n/a	n/a	n/a

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	12/4/18	12/4/18	12/4/18	12/4/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		336	336	352	304
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



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

December 13, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STERLING SILVER 34-2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/06/18 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/03/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 1 @ SURFACE (H803603-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2018	ND	1.84	91.8	2.00	0.172	
Toluene*	0.478	0.050	12/10/2018	ND	1.77	88.3	2.00	0.376	
Ethylbenzene*	0.288	0.050	12/10/2018	ND	1.69	84.5	2.00	0.751	
Total Xylenes*	1.17	0.150	12/10/2018	ND	5.45	90.8	6.00	0.582	
Total BTX	1.94	0.300	12/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	12/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	12/08/2018	ND	188	94.0	200	0.492		
DRO >C10-C28*	6600	100	12/08/2018	ND	200	99.8	200	1.41		
EXT DRO >C28-C36	1740	100	12/08/2018	ND						

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 316 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/03/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 1 @ 1 (H803603-02)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2018	ND	1.84	91.8	2.00	0.172		
Toluene*	<0.050	0.050	12/10/2018	ND	1.77	88.3	2.00	0.376		
Ethylbenzene*	<0.050	0.050	12/10/2018	ND	1.69	84.5	2.00	0.751		
Total Xylenes*	<0.150	0.150	12/10/2018	ND	5.45	90.8	6.00	0.582		
Total BTX	<0.300	0.300	12/10/2018	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8160	16.0	12/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2018	ND	188	94.0	200	0.492	
DRO >C10-C28*	79.9	10.0	12/08/2018	ND	200	99.8	200	1.41	
EXT DRO >C28-C36	46.3	10.0	12/08/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/03/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 1 @ 4 (H803603-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	12/11/2018	ND	416	104	400	3.77		

Sample ID: SP 1 @ 8 (H803603-04)

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

Sample ID: SP 1 @ 9 (H803603-05)

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

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/03/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ SURFACE (H803603-06)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.065	0.050	12/10/2018	ND	1.84	91.8	2.00	0.172		
Toluene*	0.570	0.050	12/10/2018	ND	1.77	88.3	2.00	0.376		
Ethylbenzene*	0.253	0.050	12/10/2018	ND	1.69	84.5	2.00	0.751		
Total Xylenes*	1.18	0.150	12/10/2018	ND	5.45	90.8	6.00	0.582		
Total BTEX	2.07	0.300	12/10/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	12/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	12/08/2018	ND	188	94.0	200	0.492	
DRO >C10-C28*	5010	50.0	12/08/2018	ND	200	99.8	200	1.41	
EXT DRO >C28-C36	1360	50.0	12/08/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 264 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/06/2018	Sampling Date:	12/03/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 1 (H803603-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2018	ND	1.84	91.8	2.00	0.172	
Toluene*	0.070	0.050	12/10/2018	ND	1.77	88.3	2.00	0.376	
Ethylbenzene*	0.067	0.050	12/10/2018	ND	1.69	84.5	2.00	0.751	
Total Xylenes*	0.258	0.150	12/10/2018	ND	5.45	90.8	6.00	0.582	
Total BTEX	0.395	0.300	12/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6720	16.0	12/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2018	ND	188	94.0	200	0.492	
DRO >C10-C28*	78.4	10.0	12/08/2018	ND	200	99.8	200	1.41	
EXT DRO >C28-C36	33.5	10.0	12/08/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/03/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 3 (H803603-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	12/11/2018	ND	416	104	400	3.77		

Sample ID: SP 2 @ 8 (H803603-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/11/2018	ND	416	104	400	3.77	

Sample ID: SP 2 @ 9 (H803603-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/11/2018	ND	416	104	400	3.77		

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ SURFACE (H803603-11)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2018	ND	1.84	91.8	2.00	0.172	
Toluene*	0.270	0.050	12/10/2018	ND	1.77	88.3	2.00	0.376	
Ethylbenzene*	0.138	0.050	12/10/2018	ND	1.69	84.5	2.00	0.751	
Total Xylenes*	0.574	0.150	12/10/2018	ND	5.45	90.8	6.00	0.582	
Total BTEX	0.981	0.300	12/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/11/2018	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 238 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ 1 (H803603-12)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2018	ND	1.84	91.8	2.00	0.172		
Toluene*	<0.050	0.050	12/10/2018	ND	1.77	88.3	2.00	0.376		
Ethylbenzene*	<0.050	0.050	12/10/2018	ND	1.69	84.5	2.00	0.751		
Total Xylenes*	<0.150	0.150	12/10/2018	ND	5.45	90.8	6.00	0.582		
Total BTX	<0.300	0.300	12/10/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	12/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2018	ND	188	94.0	200	0.492	
DRO >C10-C28*	17.2	10.0	12/08/2018	ND	200	99.8	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	12/08/2018	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ 4 (H803603-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/11/2018	ND	416	104	400	3.77		

Sample ID: SP 3 @ 5 (H803603-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/11/2018	ND	416	104	400	3.77	

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Analytical Results For:

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Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ SURFACE (H803603-15)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2018	ND	1.84	91.8	2.00	0.172		
Toluene*	0.551	0.050	12/10/2018	ND	1.77	88.3	2.00	0.376		
Ethylbenzene*	0.250	0.050	12/10/2018	ND	1.69	84.5	2.00	0.751		
Total Xylenes*	1.02	0.150	12/10/2018	ND	5.45	90.8	6.00	0.582		
Total BTEX	1.82	0.300	12/10/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/11/2018	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
									S-06	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	12/08/2018	ND	188	94.0	200	0.492		
DRO >C10-C28*	4830	100	12/08/2018	ND	200	99.8	200	1.41		
EXT DRO >C28-C36	2170	100	12/08/2018	ND						

Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 334 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ 1 (H803603-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2018	ND	2.03	101	2.00	0.591		
Toluene*	<0.050	0.050	12/10/2018	ND	1.98	98.9	2.00	0.443		
Ethylbenzene*	<0.050	0.050	12/10/2018	ND	1.89	94.5	2.00	0.957		
Total Xylenes*	<0.150	0.150	12/10/2018	ND	5.57	92.8	6.00	0.566		
Total BTEX	<0.300	0.300	12/10/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	12/11/2018	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2018	ND	188	94.0	200	0.492	
DRO >C10-C28*	<10.0	10.0	12/08/2018	ND	200	99.8	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	12/08/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ 3 (H803603-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	12/11/2018	ND	432	108	400	3.77		

Sample ID: SP 4 @ 5 (H803603-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/11/2018	ND	432	108	400	3.77		

Sample ID: SP 4 @ 6 (H803603-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/11/2018	ND	432	108	400	3.77		

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ SURFACE (H803603-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2018	ND	2.03	101	2.00	0.591	
Toluene*	5.65	0.050	12/10/2018	ND	1.98	98.9	2.00	0.443	
Ethylbenzene*	4.47	0.050	12/10/2018	ND	1.89	94.5	2.00	0.957	
Total Xylenes*	17.1	0.150	12/10/2018	ND	5.57	92.8	6.00	0.566	
Total BTEX	27.2	0.300	12/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	12/11/2018	ND	432	108	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1270	100	12/08/2018	ND	188	94.0	200	0.492	
DRO >C10-C28*	7910	100	12/08/2018	ND	200	99.8	200	1.41	
EXT DRO >C28-C36	2400	100	12/08/2018	ND					

Surrogate: 1-Chlorooctane 134 % 41-142

Surrogate: 1-Chlorooctadecane 361 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ 1 (H803603-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2018	ND	2.03	101	2.00	0.591	
Toluene*	2.08	0.050	12/10/2018	ND	1.98	98.9	2.00	0.443	
Ethylbenzene*	2.19	0.050	12/10/2018	ND	1.89	94.5	2.00	0.957	
Total Xylenes*	7.62	0.150	12/10/2018	ND	5.57	92.8	6.00	0.566	
Total BTEX	11.9	0.300	12/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	12/11/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	330	100	12/08/2018	ND	188	94.0	200	0.492		
DRO >C10-C28*	3730	100	12/08/2018	ND	200	99.8	200	1.41		
EXT DRO >C28-C36	991	100	12/08/2018	ND						

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 199 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ 3 (H803603-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	12/11/2018	ND	432	108	400	3.77		

Sample ID: SP 5 @ 5 (H803603-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	12/11/2018	ND	432	108	400	3.77		

Sample ID: SP 5 @ 6 (H803603-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/11/2018	ND	432	108	400	3.77		

Sample ID: SP 5 @ 7 (H803603-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/11/2018	ND	432	108	400	3.77		

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Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: NORTH @ SURFACE (H803603-26)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2018	ND	2.03	101	2.00	0.591	
Toluene*	<0.050	0.050	12/12/2018	ND	1.98	98.9	2.00	0.443	
Ethylbenzene*	<0.050	0.050	12/12/2018	ND	1.89	94.5	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/12/2018	ND	5.57	92.8	6.00	0.566	
Total BTEx	<0.300	0.300	12/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	336	16.0	12/11/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2018	ND	188	94.0	200	0.492	
DRO >C10-C28*	<10.0	10.0	12/08/2018	ND	200	99.8	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	12/08/2018	ND					

Surrogate: 1-Chlorooctane 59.8 % 41-142

Surrogate: 1-Chlorooctadecane 69.8 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: EAST @ SURFACE (H803603-27)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2018	ND	2.03	101	2.00	0.591	
Toluene*	<0.050	0.050	12/10/2018	ND	1.98	98.9	2.00	0.443	
Ethylbenzene*	<0.050	0.050	12/10/2018	ND	1.89	94.5	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/10/2018	ND	5.57	92.8	6.00	0.566	
Total BTEx	<0.300	0.300	12/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	336	16.0	12/11/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2018	ND	211	106	200	0.570	
DRO >C10-C28*	<10.0	10.0	12/10/2018	ND	225	112	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	12/10/2018	ND					

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 37.6-147

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Analytical Results For:

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

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: WEST @ SURFACE (H803603-28)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2018	ND	2.03	101	2.00	0.591	
Toluene*	<0.050	0.050	12/10/2018	ND	1.98	98.9	2.00	0.443	
Ethylbenzene*	<0.050	0.050	12/10/2018	ND	1.89	94.5	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/10/2018	ND	5.57	92.8	6.00	0.566	
Total BTEx	<0.300	0.300	12/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/11/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2018	ND	211	106	200	0.570	
DRO >C10-C28*	<10.0	10.0	12/10/2018	ND	225	112	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	12/10/2018	ND					

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/06/2018	Sampling Date:	12/04/2018
Reported:	12/13/2018	Sampling Type:	Soil
Project Name:	STERLING SILVER 34-2 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-12-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SOUTH @ SURFACE (H803603-29)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2018	ND	2.03	101	2.00	0.591		
Toluene*	<0.050	0.050	12/10/2018	ND	1.98	98.9	2.00	0.443		
Ethylbenzene*	<0.050	0.050	12/10/2018	ND	1.89	94.5	2.00	0.957		
Total Xylenes*	<0.150	0.150	12/10/2018	ND	5.57	92.8	6.00	0.566		
Total BTEX	<0.300	0.300	12/10/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/11/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2018	ND	211	106	200	0.570	
DRO >C10-C28*	<10.0	10.0	12/10/2018	ND	225	112	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	12/10/2018	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

173

Company Name: BBO International, Inc.		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		P.O. #:			
Address: P.O. Box 805		Company:			
City: Hobbs State: NM Zip: 88241		Attn:			
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:			
Project #: Project Owner: OXY		City:			
Project Name: Sterling Silver 39-2 CTB 6-12-18		State: Zip:			
Project Location: Rice Gold Rd		Phone #:			
Sampler Name: V.O		Fax #:			

Lab I.D.	Sample I.D.	FOR LAB USE ONLY	(GRAB OR COMPOUND)	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	TPH Extended	BTEX	C1-
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
H803603	Sp 10 SUR		G	1			X				X			12-3	1058	X	X	X
1	1		G	1			X				X			1059	X	X	X	
2	4		G	1			X				X			1116		X	X	
3	8		G	1			X				X			1150		X	X	
4	9		G	1			X				X			1222		X	X	
5	Sp 10 SUR		G	1			X				X			1230	X	X	X	
6	1		G	1			X				X			1239	X	X	X	
7	3		G	1			X				X			259		X	X	
8	8		G	1			X				X			930		X	X	
9	9		G	1			X				X			953		X	X	
10			C	1			X				X							

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Relinquished By:	Date: 12-6-18	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 14:45	Date: 12-6-18	Time: 14:45	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Time:				
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
5.62 #97	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	TD		

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

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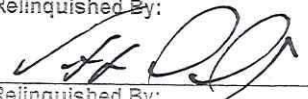
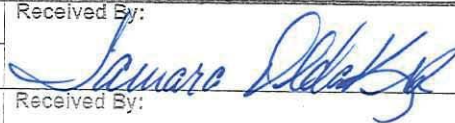
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/3

Company Name: BDC International, Inc.		BILL TO		ANALYSIS REQUEST																							
Project Manager: Cliff Brunson		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div>TPH Extended</div> <div>BTEX</div> <div>CL</div> </div>																							
Address: P.O. Box 805		Company:																									
City: Hobbs State: NM Zip: 88241		Attn:																									
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																									
Project #: Project Owner: OXY		City:																									
Project Name: S. Diver CTB 342 6-12-18		State: Zip:																									
Project Location: P. C. 100 Rv		Phone #:																									
Sampler Name: 10		Fax #:																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
	H803603	SP30 SUR	G			X				X			12-4	956	X	X	X										
	11		G			X				X				959	X	X	X										
	12		G			X				X				1051	X	X	X										
	13		G			X				X				1101	X	X	X										
	14		G			X				X				1103	X	X	X										
	15	SP40 SUR	G			X				X				1109	X	X	X										
	16		G			X				X				1109	X	X	X										
	17		G			X				X				1137	X	X	X										
	18		G			X				X				1159	X	X	X										
	19		G			X				X				1251	X	X	X										
	20	SP50 SUR	G			X				X				101	X	X	X										

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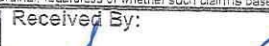
Relinquished By: 	Date: 12-6-18 Time: 10:45	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
	Time:		REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.6i #97	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) T.O.	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

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Relinquished By: 		Date: <u>12-6-10</u>		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: <u>16:45</u>		REMARKS:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)			
<u>5.6i #97</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No		<u>TO</u>			

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 194299

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 194299
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/7/2023