

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

#### **DELINEATION WORKPLAN**

### **OXY – CORRAL FLY GUNBARREL AND AST FACILITY**

(Leak Date: 12/2/18)

#### RP # 2RP-5173

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5173.

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 entire leak area (BLUE 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 336 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

What is the shallowest depth to groundwater beneath the area affected by the release?

Did this release impact groundwater or surface water?

Incident ID	
District RP	2RP-5173
Facility ID	
Application ID	

98

(ft bgs)

#### Site Assessment/Characterization

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

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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well  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	s.
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 pr	ronosed remediation

plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 Page 4

## State of New Mexico Oil Conservation Division

Incident ID	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
District RP	2RP-5173
Facility ID	
Application ID	

public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator	otifications and perform corrective actions for releases which may endanger to CCD does not relieve the operator of liability should their operations have used to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich Signature:	Title: Environmental Coordinator  Date: 2-749
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
Received by:	Date:

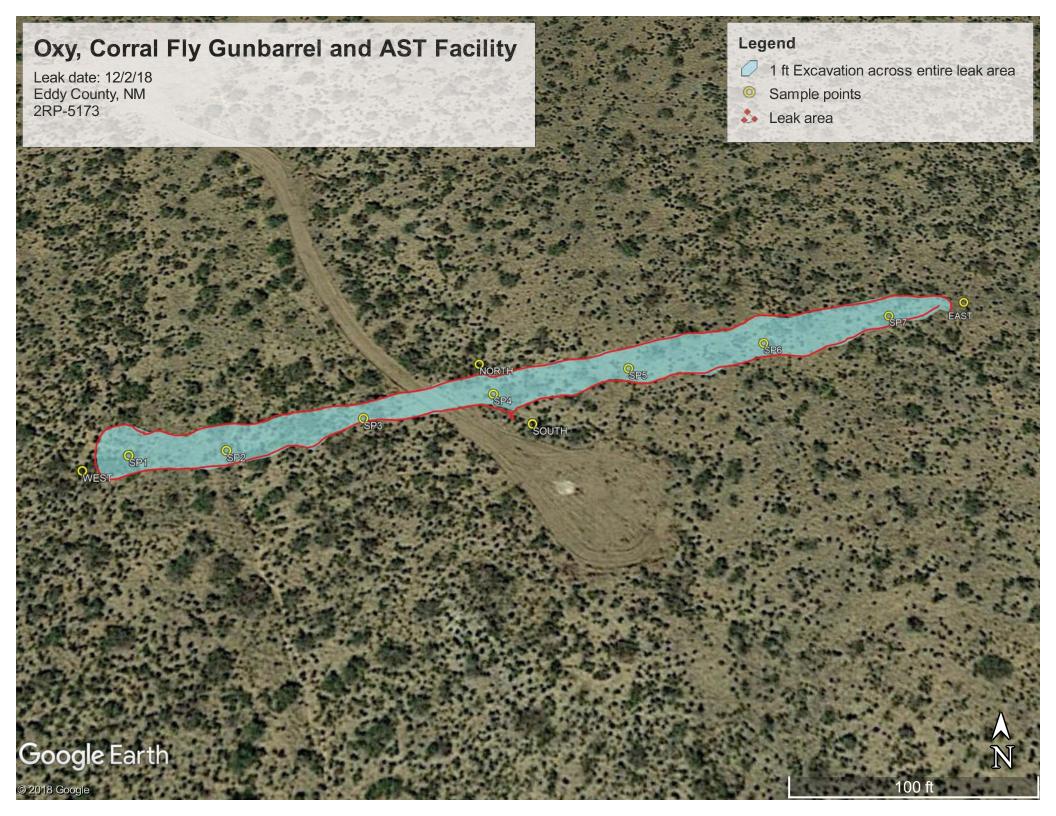
Form C-141 Page 5

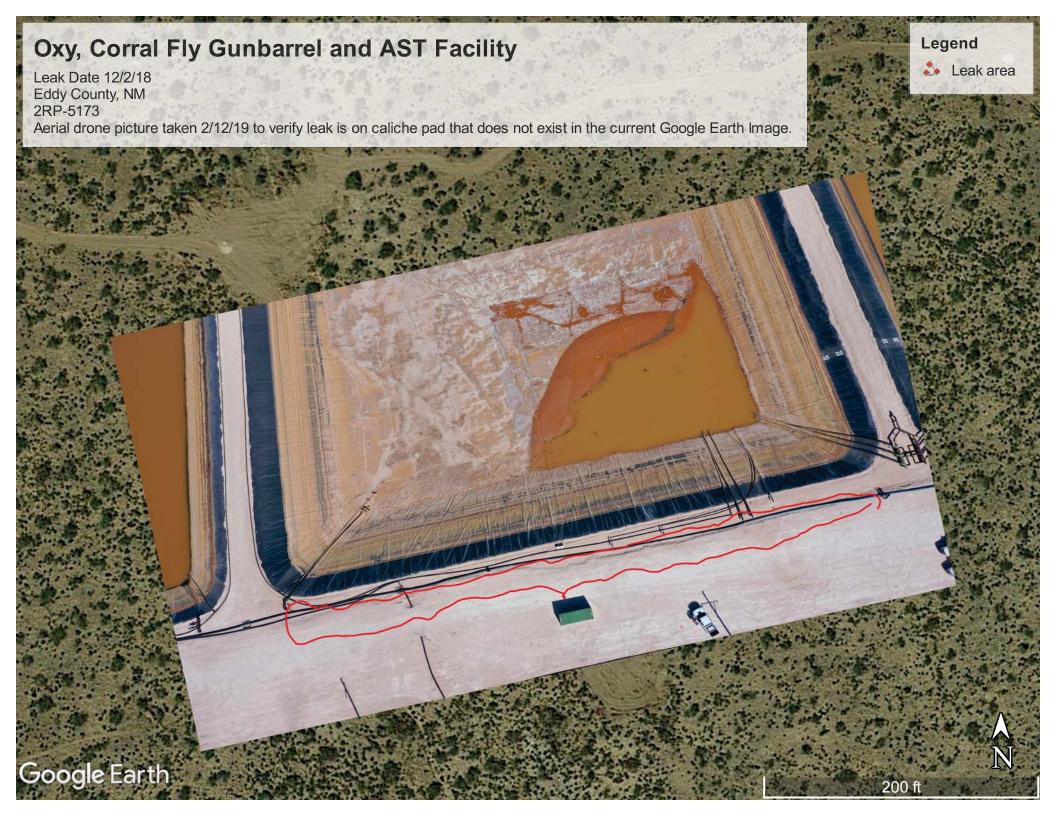
#### State of New Mexico Oil Conservation Division

Incident ID	942000000000000000000000000000000000000
District RP	2RP-5173
Facility ID	
Application ID	

## Remediation 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 facilit 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 OC								
rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for release	ses							
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: Wie Led Litter Date: 2-749								
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:	00000							







#### Oxy, Corral Fly Gunbarrel and AST Facility

#### Sample points

SP1, N 32.15480 W-103.94755

SP2, N 32.15480 W-103.94740

SP3, N 32.15485 W-103.94719

SP4, N 32.15489 W-103.94698

SP5, N 32.15493 W-103.94676

SP6, N 32.15497 W-103.94654

SP7, N 32.15502 W-103.94632

NORTH, N 32.15494 W-103.94701

SOUTH, N 32.15484 W-103.94692

EAST, N 32.15504 W-103.94619

WEST, N 32.15477 W-103.94762

# Oxy, Corral Fly Gunbarrel & AST U/L P, Section 2, T25S, R29E

**Groundwater: 175'-200'** 





**USGS Home** Contact USGS Search USGS

#### National Water Information System: Web Interface

Data Category: Groundwater **USGS Water Resources** GO New Mexico

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 = usas site\_no list =

• 320956103574301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320956103574301 25S.29E.02.11111

Eddy County, New Mexico Latitude 32°09'56", Longitude 103°57'43" NAD27 Land-surface elevation 3,000 feet above NAVD88 The depth of the well is 140 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

D

98.10

**Output formats** 

Table of dat	ole of data										
Tab-separat	ab-separated data										
Graph of data											
Reselect per	eselect period										
Date	Time	? Water- level date- time	Water level, feet below land surface	Water level, feet above specific vertical	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status

Explanation							
Section	Code	Description					
Water-level date-time accuracy	D	Date is accurate to the Day					
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot					
Status		The reported water-level measurement represents a static level					
Method of measurement	U	Unknown method.					
Measuring agency		Not determined					
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

<u>News</u>

Accessibility FOIA Plug-Ins Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels

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

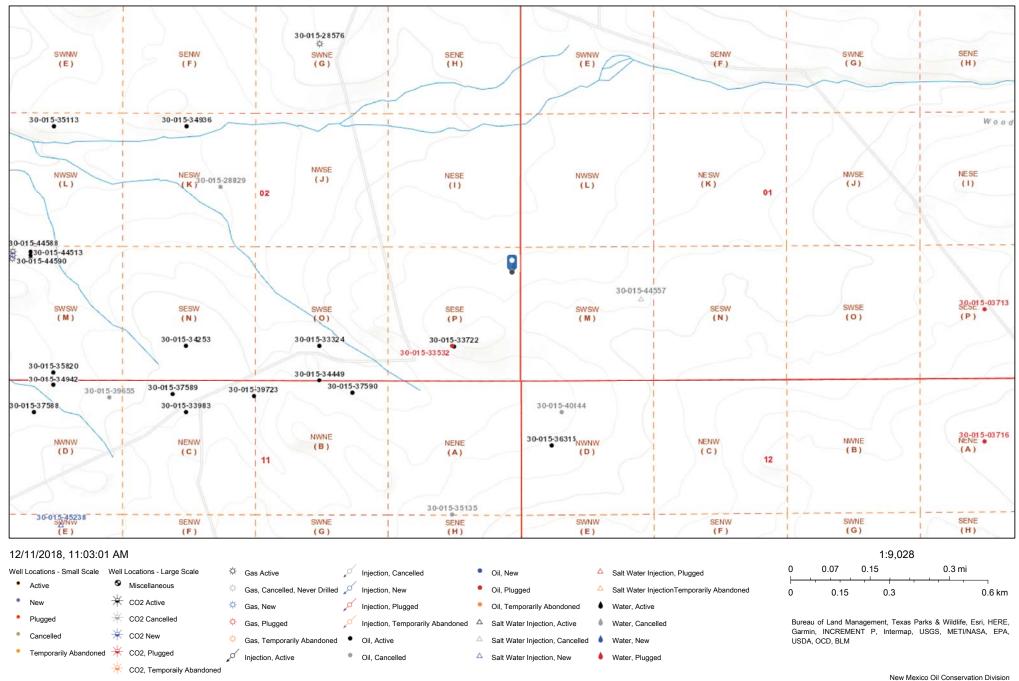
Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2018-12-11 14:11:52 EST

1958-10-23

USA.gov

12/11/2018, 12:12 PM 1 of 1

### Corral Fly Gunbarrel & AST Facility, Topo Map with Water Features



## Oxy, Corral Fly Gunbarrel & AST Legend **BLM CAVE KARST MAP** Corral Fly Gunbarrel & AST Leak Date: 12/2/18 Low Potential **Eddy County** Medium Potential Corral Fly Gunbarrel & AST Google Earth 1000 ft © 2018 Google

## National Flood Hazard Layer FIRMette

250

500

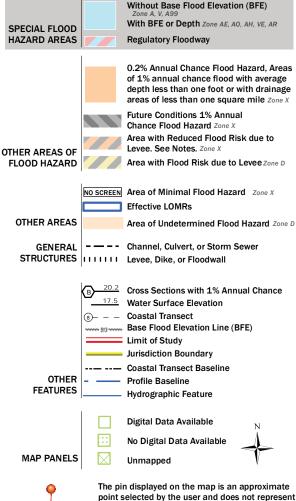
1,000

1,500



#### Legend

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



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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/11/2018 at 2:25:13 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.



2,000

## Laboratory Analytical Results Summary Corral Fly Gunbarrel and AST Facility (12/2/18)

			SP1 @				
		Sample ID	SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	12/18/18	12/18/18	12/18/18	12/18/18	12/18/18
			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		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		24000	1260	2360	624	576
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

			SP2 @				
		Sample ID	SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	12/18/18	12/18/18	12/18/18	12/18/18	12/18/18
			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		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		20800	2840	1390	640	608
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	12/18/18	12/18/18	12/18/18	12/18/18	12/18/18
			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		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		20400	4000	944	576	560
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP4@ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	12/18/18	12/18/18	12/18/18	12/18/18	12/18/18
raidiyte	Motiloa	Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		6500	2400	656	432	432
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'
Analyte	Method	Date	12/18/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
			mg/kg	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	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		5900	12000	848	544	1410	496	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a

			0000					
		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'
Analyte	Method	Date	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
			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		0.295	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.058	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		0.318	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		0.671	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		7800	7120	784	768	608	16
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'	SP7 @ 6'
Analyte	Method	Date	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
			mg/kg	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	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		10000	8320	848	528	656	<16.0	16
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a

			NORTH @	EAST @	WEST @	SOUTH @
		Sample ID	SURFACE	SURFACE	SURFACE	SURFACE
Analyte	Method	Date	12/19/18	12/19/18	12/19/18	12/19/18
			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	SM4500CI-B		32	16	16	<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



January 07, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CORRAL FLY GUNBARREL & AST FACILITY (12/2/18)

Enclosed are the results of analyses for samples received by the laboratory on 12/21/18 8:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 1 @ SURFACE (H803753-01)

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	12/27/2018	ND	2.26	113	2.00	15.1	
Toluene*	<0.050	0.050	12/27/2018	ND	2.25	112	2.00	16.4	
Ethylbenzene*	<0.050	0.050	12/27/2018	ND	2.21	111	2.00	14.3	
Total Xylenes*	<0.150	0.150	12/27/2018	ND	6.80	113	6.00	13.7	
Total BTEX	<0.300	0.300	12/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	12/28/2018	ND	416	104	400	3.77	
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	12/26/2018	ND	196	97.8	200	1.34	
DRO >C10-C28*	<10.0	10.0	12/26/2018	ND	225	113	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	12/26/2018	ND					
Surrogate: 1-Chlorooctane	102 %	% 41-142	<u> </u>						
Common and a state of the state	102.0	27 6 14	7						

103 % Surrogate: 1-Chlorooctadecane 37.6-147

Cardinal Laboratories \*=Accredited Analyte

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Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 1 @ 1' (H803753-02)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	12/28/2018	ND	416	104	400	3.77	
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	12/26/2018	ND	196	97.8	200	1.34	
DRO >C10-C28*	<10.0	10.0	12/26/2018	ND	225	113	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	12/26/2018	ND					
Surrogate: 1-Chlorooctane	104 5	% 41-142	?						

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 1 @ 2' (H803753-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 2360 12/28/2018 ND 416 400 16.0 104 3.77

Sample ID: SP 1 @ 3' (H803753-04)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank Qualifier % Recovery Chloride 624 16.0 12/31/2018 416 400 7.41 ND 104

Sample ID: SP 1 @ 4' (H803753-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 576 12/30/2018 ND 400 0.00 16.0 416 104

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 2 @ SURFACE (H803753-06)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	20800	16.0	12/30/2018	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	12/26/2018	ND	196	97.8	200	1.34	
DRO >C10-C28*	<10.0	10.0	12/26/2018	ND	225	113	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	12/26/2018	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142	,						

Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

OXY - EDDY CO NM Project Location:

#### Sample ID: SP 2 @ 1' (H803753-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	< 0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	< 0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 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	2840	16.0	12/30/2018	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	12/26/2018	ND	196	97.8	200	1.34	
DRO >C10-C28*	<10.0	10.0	12/26/2018	ND	225	113	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	12/26/2018	ND					
Surrogate: 1-Chlorooctane	96.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.3	% 37.6-14	7						

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 2 @ 2' (H803753-08)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride 1390** 16.0 12/30/2018 ND 416 104 400 0.00

Sample ID: SP 2 @ 3' (H803753-09)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank Qualifier % Recovery Chloride 640 16.0 12/30/2018 416 400 0.00 ND 104

Sample ID: SP 2 @ 4' (H803753-10)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 608 12/30/2018 ND 400 0.00 16.0 416 104

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 3 @ SURFACE (H803753-11)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	12/30/2018	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	12/26/2018	ND	196	97.8	200	1.34	
DRO >C10-C28*	<10.0	10.0	12/26/2018	ND	225	113	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	12/26/2018	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142	,						

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Analyzed By: me

OXY - EDDY CO NM Project Location:

ma/ka

#### Sample ID: SP 3 @ 1' (H803753-12)

RTFY 8021R

BIEX 8021B	mg/	/ Kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	4000	16.0	12/30/2018	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	12/26/2018	ND	196	97.8	200	1.34	
DRO >C10-C28*	<10.0	10.0	12/26/2018	ND	225	113	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	12/26/2018	ND					
Surrogate: 1-Chlorooctane	107 5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	106	% 376-14	17						

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 3 @ 2' (H803753-13)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 944 16.0 12/30/2018 ND 416 104 400 0.00

Sample ID: SP 3 @ 3' (H803753-14)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank Qualifier % Recovery Chloride **576** 16.0 12/30/2018 416 400 0.00 ND 104

Sample ID: SP 3 @ 4' (H803753-15)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 560 12/30/2018 ND 400 0.00 16.0 416 104

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 4 @ SURFACE (H803753-16)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 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	6500	16.0	12/30/2018	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	12/26/2018	ND	196	97.8	200	1.34	
DRO >C10-C28*	<10.0	10.0	12/26/2018	ND	225	113	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	12/26/2018	ND					
Surrogate: 1-Chlorooctane	110 9	% 41-142	!						

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

OXY - EDDY CO NM Project Location:

#### Sample ID: SP 4 @ 1' (H803753-17)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 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	2400	16.0	12/30/2018	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	12/27/2018	ND	188	93.9	200	0.658	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	214	107	200	8.03	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	97.3	% 41-142							
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 4 @ 2' (H803753-18)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 656 16.0 12/30/2018 ND 416 104 400 0.00

Sample ID: SP 4 @ 3' (H803753-19)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank Qualifier % Recovery Chloride 432 16.0 12/30/2018 416 400 0.00 ND 104

Sample ID: SP 4 @ 4' (H803753-20)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 432 12/30/2018 ND 400 0.00 16.0 416 104

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Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/18/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 5 @ SURFACE (H803753-21)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 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	5900	16.0	12/30/2018	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	12/27/2018	ND	188	93.9	200	0.658	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	214	107	200	8.03	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	86.8	% 41-142	?						

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 5 @ 1' (H803753-22)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 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	12000	16.0	12/30/2018	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	12/27/2018	ND	188	93.9	200	0.658	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	214	107	200	8.03	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 5 @ 2' (H803753-23)

mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
848	16.0	12/30/2018	ND	416	104	400	0.00	
753-24)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
544	16.0	12/30/2018	ND	416	104	400	0.00	
753-25)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1410	16.0	12/30/2018	ND	416	104	400	0.00	QM-07
753-26)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
496	16.0	12/30/2018	ND	416	104	400	0.00	
753-27)								
-	mg/kg		d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	=	,			,			-
	Result  848  753-24)  mg  Result  544  753-25)  mg  Result  1410  753-26)  mg  Result  496	848 16.0  753-24)  mg/kg  Result Reporting Limit 544 16.0  753-25)  mg/kg  Result Reporting Limit 1410 16.0  753-26)  mg/kg  Result Reporting Limit 1410 16.0  753-27)  mg/kg	Result         Reporting Limit         Analyzed           848         16.0         12/30/2018           753-24)         mg/kg         Analyze           Result         Reporting Limit         Analyzed           544         16.0         12/30/2018           753-25)         mg/kg         Analyze           Result         Reporting Limit         Analyze           753-26)         mg/kg         Analyze           Result         Reporting Limit         Analyze           Result         Reporting Limit         Analyze           753-27)         mg/kg         Analyze           753-27)         mg/kg         Analyze	Result         Reporting Limit         Analyzed         Method Blank           753-24)         mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC           753-25)         mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC           753-26)         mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC	Result         Reporting Limit         Analyzed         Method Blank         BS           848         16.0         12/30/2018         ND         416           753-24)         mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC           753-25)         mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC           753-26)         mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC           753-27)         mg/kg         Analyzed By: AC	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           848         16.0         12/30/2018         ND         416         104           753-24)             mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC           Analyzed By: AC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  848 16.0 12/30/2018 ND 416 104 400  753-24)  mg/kg Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  544 16.0 12/30/2018 ND 416 104 400  753-25)  mg/kg Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  1410 16.0 12/30/2018 ND 416 104 400  753-26)  mg/kg Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  1410 16.0 12/30/2018 ND 416 104 400  753-26)  mg/kg Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  496 16.0 12/30/2018 ND 416 104 400	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           848         16.0         12/30/2018         ND         416         104         400         0.00           753-24)           mg/kg         Analyzed By: AC           Result         Reporting Limit         Analyzed By: AC

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Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 6 @ SURFACE (H803753-28)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	0.295	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	0.058	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	0.318	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	0.671	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7800	16.0	12/30/2018	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	12/27/2018	ND	188	93.9	200	0.658	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	214	107	200	8.03	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	84.5	% 41-142							
Surrogate: 1-Chlorooctadecane	82.9	% 37.6-147	7						

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Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 6 @ 1' (H803753-29)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	7120	16.0	12/30/2018	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	12/27/2018	ND	188	93.9	200	0.658	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	214	107	200	8.03	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	97.2	% 41-142							
Surrogate: 1-Chlorooctadecane	96.8	% 37.6-14	7						

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Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 6 @ 2' (H803753-30)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	12/30/2018	ND	416	104	400	0.00	
Sample ID: SP 6 @ 3' (H8	303753-31)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/30/2018	ND	416	104	400	0.00	
Sample ID: SP 6 @ 4' (H8	803753-32)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	12/30/2018	ND	416	104	400	0.00	
Sample ID: SP 6 @ 5' (H8	803753-33)								
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	12/30/2018	ND	416	104	400	0.00	

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Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 7 @ SURFACE (H803753-34)

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	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	10000	16.0	12/30/2018	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	12/27/2018	ND	187	93.6	200	0.948	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	202	101	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	79.4	% 41-142	!						

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 7 @ 1' (H803753-35)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2018	ND	1.93	96.3	2.00	2.30	
Toluene*	<0.050	0.050	12/28/2018	ND	1.89	94.7	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/28/2018	ND	1.92	96.0	2.00	0.706	
Total Xylenes*	<0.150	0.150	12/28/2018	ND	5.84	97.4	6.00	0.276	
Total BTEX	<0.300	0.300	12/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 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	8320	16.0	12/30/2018	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	12/27/2018	ND	187	93.6	200	0.948	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	202	101	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.6	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SP 7 @ 2' (H803753-36)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	12/30/2018	ND	416	104	400	0.00	
Sample ID: SP 7 @ 3' (H8	803753-37)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/30/2018	ND	416	104	400	0.00	
Sample ID: SP 7 @ 4' (H8	803753-38)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/30/2018	ND	416	104	400	0.00	
Sample ID: SP 7 @ 5' (H8	803753-39)								
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	12/31/2018	ND	416	104	400	0.00	
Sample ID: SP 7 @ 6' (H8	803753-40)								
Chloride, SM4500Cl-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	12/31/2018	ND	416	104	400	0.00	

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

Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: NORTH @ SURFACE (H803753-41)

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	12/27/2018	ND	1.87	93.3	2.00	0.687	
Toluene*	<0.050	0.050	12/27/2018	ND	1.93	96.4	2.00	1.53	
Ethylbenzene*	<0.050	0.050	12/27/2018	ND	1.91	95.7	2.00	1.51	
Total Xylenes*	<0.150	0.150	12/27/2018	ND	5.60	93.4	6.00	1.78	
Total BTEX	<0.300	0.300	12/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 81.3-12	8						
Chloride, SM4500Cl-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	12/31/2018	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	12/27/2018	ND	187	93.6	200	0.948	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	202	101	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	75.1	% 41-142	?						

Surrogate: 1-Chlorooctadecane 75.7 % 37.6-147

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

Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: EAST @ SURFACE (H803753-42)

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	12/27/2018	ND	1.87	93.3	2.00	0.687	
Toluene*	<0.050	0.050	12/27/2018	ND	1.93	96.4	2.00	1.53	
Ethylbenzene*	<0.050	0.050	12/27/2018	ND	1.91	95.7	2.00	1.51	
Total Xylenes*	<0.150	0.150	12/27/2018	ND	5.60	93.4	6.00	1.78	
Total BTEX	<0.300	0.300	12/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 81.3-12	8						
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	12/31/2018	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	12/27/2018	ND	187	93.6	200	0.948	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	202	101	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	68.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	65.9	% 37.6-14	7						

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

Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: WEST @ SURFACE (H803753-43)

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	12/27/2018	ND	1.87	93.3	2.00	0.687	
Toluene*	<0.050	0.050	12/27/2018	ND	1.93	96.4	2.00	1.53	
Ethylbenzene*	<0.050	0.050	12/27/2018	ND	1.91	95.7	2.00	1.51	
Total Xylenes*	<0.150	0.150	12/27/2018	ND	5.60	93.4	6.00	1.78	
Total BTEX	<0.300	0.300	12/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 81.3-12	8						
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	12/31/2018	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	12/27/2018	ND	187	93.6	200	0.948	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	202	101	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	74.1	% 41-142	!						

Surrogate: 1-Chlorooctadecane 72.5 % 37.6-147

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

Fax To: (575) 397-0397

Received: 12/21/2018 Sampling Date: 12/19/2018

Reported: 01/07/2019 Sampling Type: Soil

Project Name: CORRAL FLY GUNBARREL & AST FACILIT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

#### Sample ID: SOUTH @ SURFACE (H803753-44)

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	12/27/2018	ND	1.87	93.3	2.00	0.687	
Toluene*	<0.050	0.050	12/27/2018	ND	1.93	96.4	2.00	1.53	
Ethylbenzene*	<0.050	0.050	12/27/2018	ND	1.91	95.7	2.00	1.51	
Total Xylenes*	<0.150	0.150	12/27/2018	ND	5.60	93.4	6.00	1.78	
Total BTEX	<0.300	0.300	12/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 81.3-12	8						
Chloride, SM4500Cl-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	12/31/2018	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	12/27/2018	ND	187	93.6	200	0.948	
DRO >C10-C28*	<10.0	10.0	12/27/2018	ND	202	101	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	12/27/2018	ND					
Surrogate: 1-Chlorooctane	76.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.8	% 37.6-14	7						

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#### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**ANALYSIS REQUEST** 

Cx0/

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

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O				Com	pan	v:	OKA		1										A .					
City: Hobbs	State: NM	Zii	o:	882	41			Attn:		la!	1. N. II	rich	1											
Phone #: 575-								Addr	_	:	. 011-11	110, -												
Project #:	Project Owne	r: 0	ху					City:	200.00														ii.	
Project Name:	Corral Fly Gunbarrel & AST Facili			2/18	)			State			Zip:												9	
	n: Eddy County, NM			00' 100 703				hor		9	Ζiμ.													
Sampler Name:								ax #																
FOR LAB USE ONLY MATRIX									RESE	RV.	SAMPL	ING			_			ľ						
Tap I.D. Sample I.D.  CG)RAB OR (C)OMP.  # CONTAINERS GROUNDWATER WASTEWATER OIL OIL									2.		DATE	TIME	()	BTEX	TPH EXT	A.								
14	SP1 @ SURFACE			OTHER:	J		12/18/18	10000000000	1	1	1			<u> </u>	_	_			-	_				
2 "	SP1 @ 1'	1	1		1				1		12/18/18		1	1	1			-						
3'	SP1 @ 2'		П								12/18/18	10:15 AM	1	Ť	•									
4"	SP1 @ 3'										12/18/18	10:41 AM	1						-		$\vdash$		-	
5	SP1 @ 4'								T		12/18/18	11:11 AM	1											
	SP2 @ SURFACE	П							Т		12/18/18		1	1	1				E. 1			-		
7.	SP2 @ 1'		П								12/18/18	11:33 AM	1	1	1									
8	SP2 @ 2'		П								12/18/18	11:49 AM	1	•									-	
9	SP2 @ 3'	П	П									12:12 PM	1			-			-				-	
10 *	SP2 @ 4'	V	V		J				V		12/18/18	12:58 PM	1											
service. In no event shall Ca affiliates or successors arisin	d Damages. Cardinal's liability and client's exclusive remedy for a og those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by C	withou	t limit	ed unle	s made i	n writing	and re	ceived	by Card	dinal w	ithin 30 days afte	r completion of the	e applicab	ile					<b>I</b>					
VE-FF-1	Veff Mula Street By:																							
Relinguished By  October Delivered By:  Sampler - UPS	dition t res			(Initi	ED BY:	c																		
† Cardinal	cannot accept verbal changes. Please	fax	wri	tten	chan	ges t	o 50	5-39	3-24	76														

BILL TO

P.O. #:

Page 29 of 32

## ARDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2045

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

Company Name	Company Name: BBC International, Inc. Project Manager: Cliff Brunson										LL TO						ANAL	YSIS	S RE	QUE	ST		
Project Manage	r: Cliff Brunson		F	.o.	#:	2)																	
Address: P.O.	Box 805							om	pan	y:	OKN												
city: Hobbs	State: NM	Zip	: 8	824	1		A	ttn:		W.	Diffr	ich											
Phone #: 575-3	397-6388 Fax #: 575-	397	7-0:	397			A	Addr	ess	:													
Project #:	Project Owner	: O	⟨у				0	City:														9	
	Corral Fly Gunbarrel & AST Facility			(18)			5	State	:		Zip:												
	: Eddy County, NM						F	hor	ne #:	:													
Sampler Name:	Jeff Ornelas						F	ax #	<b>#</b> :														
FOR LAB USE ONLY		MATRIX									SAMPLI	NG											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME	۲(	875X	TPHEXT								
11 +	SP3 @ SURFACE	G	1		V			T	~		12/18/18	1:11 PM	1	1	1								
12 "	SP3 @ 1'	1	1		1				1		12/18/18	1:22 PM	1	1	1								
13.	SP3 @ 2'	П	П								12/18/18	1:37 PM	1										
14 .	SP3 @ 3'		1								12/18/18	2:02 PM	1										
150	SP3 @ 4'										12/18/18	Photographic county	1										
160	SP4 @ SURFACE	П	И				Ĭ				12/18/18	2:45 PM	1	✓	1								
17.	SP4 @ 1'	$\prod$									12/18/18	2:59 PM	1	✓	1								
18.	SP4 @ 2'				1	ŀ					12/18/18	3:11 PM	1										
190	SP4 @ 3'										12/18/18	3:30 PM	1										
20 0	SP4 @ 4'	V	V		V				1		12/18/18	3:40 PM	1										_
analyses All claims includ	nd Damages. Cardinal's liability and client's exclusive remedy for a ing those for negligence and any other cause whatsoever shall be	deeme	d waiv	ed unles	s made i	n writin	ng and	eceive	d by C	ardinal	within 30 days aft	er completion of I	he applica	ible									
coming In an avent chall (	Cardinal be liable for incidental or consequental damages, including ing out of or related to the performance of services hereunder by C	a witho	ut limit	ation, bu	siness in	terrup	tions. lo	ss of us	se. or	oss of t	rofits incurred by	client, its subsidi	aries,										
Relinquished B		Dath:   -/ Pacaived By:										Phone Re Fax Resu	sult:	□ Ye		No No		Phone Fax #:					
Relinquished By:  Relinquished By:  Received By:  Received By:  Received By:									1 a			REMARK			.5	NO	Addi	I GA III					
Relinquished B	y: Date: 12-21-18		ecei	ved E	By:			1	0	/													
Sma	WHOMIN Time: 8:30			Ja	Ш	ere	2/	S	de	de	Sell												
Delivered By	Delivered By: (Circle One) Sample									HECI (Ini	(ED BY: tials)												
Sampler - UPS	Sampler - UPS - Bus - Other: 2.36 #97 Cool In										andria.												

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 30 of 32

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3085

#### ARDINAL LABORATORIES

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

Company Name						B		L 70						ANA	LYS	IS RE	EQUE	ST		_				
Project Manage	r: Cliff Brunson				P.C	D. #:			2							T		T	T					
Address: P.O.	Box 805						-	Со	mpa	ny:		OXY												
city: Hobbs		Zip	: 8	824	1			Att	n:	V	J.	NAFri	dr											
Phone #: 575-3	397-6388 Fax #: 575-	397	7-0	397				Ad	dres	s:														
Project #:	Project Owner							Cit	y:									ŀ						
	Corral Fly Gunbarrel & AST Facility	y (1	2/2	/18)				Sta	te:		Z	Zip:												
Project Location	: Eddy County, NM						F	Phe	one i	<b>#</b> :														
Sampler Name:	Jeff Ornelas						F	Fax	c#:												1			
Lab I.D. Sample I.D.  Sample I.D.  ##803753 2. SP5 @ SURFACE  MATRIX  MATRIX  MATRIX  MATRIX  MATRIX  MATRIX  MATRIX  MATRIX									ACID/BASE: Ad			SAMPL	TIME	קנ	87EX	THERT							27	
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23	SP5 @ 2'		П								-	SO HOUSE LANCE IN	9:33 AM	1		_				+		-		
24°	SP5 @ 3'		П					ı			_		9:51 AM	1										
25.	SP5 @ 4'						7	T			1	12/19/18	10:19 AM	1					1		-			
260	SP5 @ 5'									П	1	12/19/18	11:01 AM	1				-	1					
	SP5 @ 6'							٦			_		11:10 AM	1										-
28 .	SP6 @ SURFACE	$\Pi$					18	$\neg$			1	12/19/18	11:11 AM	1	1	1							 	=
	SP6 @ 1'										1	12/19/18	11:19 AM	1	1	1	. 7							
	SP6 @ 2'	V	V		V				,	1	1	12/19/18	11:33 AM	1	- 1									
service. In no event shall Ca affiliates or successors arisin	d Damages. Cardinal's liability and client's exclusive remedy for ar g those for negligence and any other cause whatsoever shall be d rdinal be liable for incidental or consequental damages, including g out of or related to the performance of services hereunder by Ca	eemed	Waive	d unles	s made in	writing	g and re	eceiv	ed by C	ardina	al with	in 30 days afte	r completion of th	e applicat	ble									
Received By:    Date:												-	Phone Res Fax Result REMARKS	sult: t:	☐ Yes		No No	Add'l Add'l	Phone Fax #:					
Relinquished By:  Date: 7-1/16 Received By:  Time: 8:30 AM  Delivered By: (Circle One)  Sample Co									De	da	L	Sec							16			а		
Sampler - UPS	ntac		n	7.		itia	D'BY: ls)	~																

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Mors

Company Name	mpany Name: BBC International, Inc.  pject Manager: Cliff Brunson										3//	LL TO	er och flag sidseler Grässfaller och					ANA	LYSI	S RE	QUE	ST			
Project Manage	r: Cliff Brunson							P.C	D. #:	21															
Address: P.O.	Box 805							Со	mpa	any:		OKY													
city: Hobbs	State: NM	Zip	: 8	3824	41			Att	n:		W	. Dith	id-												
Phone #: 575-	397-6388 Fax #: 575	-397	7-0	397				Ad	dre	ss:															
Project #:	Project Owner	: O	ку					Cit	y:																
Project Name:	Corral Fly Gunbarrel & AST Facilit	y (1	2/2	/18)	ři.			Sta	ite:			Zip:		1						1					
Project Location	n: Eddy County, NM							Ph	one	#:				1								18			
Sampler Name:	Jeff Ornelas							Fax	x #:					1	_			1							
FOR LAB USE ONLY MATRIX										SEF	₹V.	SAMPL	NG	1						1					
		(C)OMP	(0)	꼾												1									
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Lab I.D.	Sample I.D.	BOR	ĮĄ	ND ND	EW.		핑	<u></u>	BAS	000	 22				龙	#									
H803753		37(G)RAB	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	S	里	ACID/BASE:	ICE / COOL	뽀	DATE	TIME	0	7	1									
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32	SP6 @ 4'	ĭ	İ							1	7	A CONTRACTOR OF THE PARTY OF	12:49 PM	1						1					
-	SP6 @ 5'		IT							T		12/19/18		1						1					
24 =	SP7 @ SURFACE	П	IT									12/19/18	1:11 PM	1	1	1									
35 "	SP7 @ 1'											12/19/18	1:15 PM	1	1	1									
36 .	SP7 @ 2'									Π		12/19/18	1:37 PM	1											
35° 36° 37°	SP7 @ 3'	Ш	Ц									12/19/18	1:51 PM	1											
38	SP7 @ 4'		Ц									12/19/18	2:15 PM	1											
390	SP7 @ 5'	Ш	Ц									12/19/18	NOTES AND	1											
40	SP7 @ 6'	V	V	_	1	<u> </u>			-6-1	V	No. of	12/19/18	1,500 p. 0,00000	✓											
analyses. All claims includi	nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be fardinal be liable for incidental or consequental damages, including	deeme	d waiv	ed unle	ss mad	e in writ	ing and	recei	ived by	/ Cardi	nal w	vithin 30 days afte	er completion of t	he applica	ble										
affiliates or successors aris	ing out of or related to the performance of services hereunder by C	ardinal	rega	rdless	f wheth								asons or otherwi	se.	- V										
Relinquished By:									a				Phone Re Fax Resu	lt:	☐ Ye		No No		Phone Fax #:						
1/2/7	127 UNUSUS Tirges 30/ SULL									~			REMARK	S:											
Relinquished B	Relinquished By: Date: 12-21-18 Received By:													58											
Want	maettena fine: 8:30Am Jama										4	1													
Delivered By	Delivered By: (Circle One)  Time: 8:30 AM Jawara  Sample Co											ED BY:													

(Initials)

Sampler - UPS - Bus - Other:

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 32 of 32

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

505

	npany Name: BBC International, Inc. ject Manager: Cliff Brunson								BILL TO							ò	ANAL	YSIS	S RE	QUE	ST		
Project Manage	r: Cliff Brunson			P.0	0. #:																		
Address: P.O.	Box 805						Со	mpa	any:	0	X4												
city: Hobbs	State: NM	Zip:	8	8241			Att	tn:		N.	PITT	رك			15								×
Phone #: 575-	397-6388 Fax #: 575	-397	-03	97			Ad	ldres	ss:		5.75												
Project #:	Project Owner						Cit	ty:															
	Corral Fly Gunbarrel & AST Facilit	y (12	2/2/	18)			Sta	ate:		Z	Zip:												
Project Location	n: Eddy County, NM						Ph	one	#:														
Sampler Name:	Jeff Ornelas						Fa	x #:															- 1
FOR LAB USE ONLY				_	MATE	RIX		PRE	SER	v.	SAMPLI	NG											
Tab I.D. Sample I.D. Sample I.D. Soll. NORTH @ SURFACE									ICE / COOL	OIHEK:	DATE	TIME	61	87EX	TYD HAT								
41	NORTH @ SURFACE	6	1		V		OTHER:		<b>/</b>		12/19/18	2:45 PM	1	1	1								
42	EAST @ SURFACE		1		1				1	1	12/19/18	2:53 PM	1	1	1								
43	WEST @ SURFACE	Ш	$\prod$							1	12/19/18	3:01 PM	1	1	1								
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		Ш								$\perp$													
	12/20/18																						
analyses. All claims includi	nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be	deemed	waive	d unless n	nade in v	vriting and	d rece	ived by	Cardin	al with	hin 30 days afte	er completion of ti	ne applica	ble									
affiliates or successors arisi	ardinal be liable for incidental or consequental damages, including ing out of or related to the performance of services hereunder by C	ardinal,	regard	ion, busin lless of wh ed By	nether su	ruptions, ich claim	loss o	of use, o sed upo	or loss o	f profi f the a	its incurred by a bove stated re	asons or otherwis	se.										
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gray	Gralf tena Time: 8:30 Am Jama										est												
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Sampler - UPS	npler - UPS - Bus - Other: 2.3c #97 Cool Ir																						

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