Received by OCD: 8/5/2019 2:55:53 PM



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DELINEATION/REMEDIATION WORKPLAN

OXY – HARROUN 9 1 CTB (Leak Date: 1/14/19 & 1/21/19 & 1/23/19)

RP # 2RP-5283 & 2RP-5284 & 2RP-5285

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5283 & 2RP-5284 & 2RP-5285.

Q1WVI-190805-C-1410

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP4 (BLUE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP5 – SP7, and SP10 (PINK shade on diagram) will be excavated to a depth of 4 feet. Oxy is requesting a variance to place an impermeable liner in the bottom of the 4-foot excavation area. The leak area near SP8 – SP9 (GREEN shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP11 – SP13 will require zero remediation.

Bottom and sidewall confirmation samples will be collected every 100 feet except in the lined area.

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.

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-5283	
Facility ID		
Application ID		

(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.

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 wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Boring or excavation logs Photographs including date and GIS information			
■ Topographic/Aerial maps ■ Laboratory data including chain of custody			

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

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-5283	
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

Date:

7-3/79

Telephone: (575) 390-2828

OCD Only

Received by:

Date:

Date:

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-5283	
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
Detailed description of proposed remediation technique	
Scaled sitemap with GPS coordinates showing delineation point	s
Estimated volume of material to be remediated	
Closure criteria is to Table 1 specifications subject to 19.15.29.	2(C)(4) NMAC
Proposed schedule for remediation (note if remediation plan time	eline is more than 90 days OCD approval is required)
Deferred Property Only Fach of the following it was south	
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
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	te to the best of my knowledge and understand that pursuant to OCD
rules and regulations all operators are required to report and/or file of	ertain release notifications and perform corrective actions for releases
which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate	nce of a C-141 report by the OCD does not relieve the operator of
surface water, human health or the environment. In addition, OCD	accentance of a C-141 report does not relieve the operator of
responsibility for compliance with any other federal, state, or local l	aws and/or regulations.
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: Wale Littor	Date:
email: wade_dittrich@oxy.com	(575) 390-2828
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Topographic/Aerial maps

Laboratory data including chain of custody

State of New Mexico Oil Conservation Division

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

Incident ID		
District RP	2RP-5284	
Facility ID		
Application ID		

(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?	i ☐ Yes ■ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	■ Yes □ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ■ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	■ Yes □ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ■ No		
Did the release impact areas not on an exploration, development, production, or storage site?	■ Yes □ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Boring or excavation logs Photographs including date and GIS information			

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

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-5284	
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: Les Success	Date: 7-3/79
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-5284	
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 por Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29 Proposed schedule for remediation (note if remediation plan ti	2.12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around placeonstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.
rules and regulations all operators are required to report and/or file which may endanger public health or the environment. The accept liability should their operations have failed to adequately investiga surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local	acceptance of a C-141 report does not relieve the operator of
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: firelession	Date: <u>7-3/-9</u> Telephone: (575) 390-2828
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
OCD Only	
Received by:	Date:
Approved	f Approval Denied Deferral Approved
Signature:	Date:

State of New Mexico Oil Conservation Division

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

Incident ID		
District RP	2RP-5285	
Facility ID		
Application ID		

52'

(ft bes)

Site Assessment/Characterization

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

, ,	(11 080)							
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)?								
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?								
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 verticontamination 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 wells. Field data Data table of soil contaminant concentration data								
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including data and GIS information								
Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody								

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

State of New Mexico Oil Conservation Division

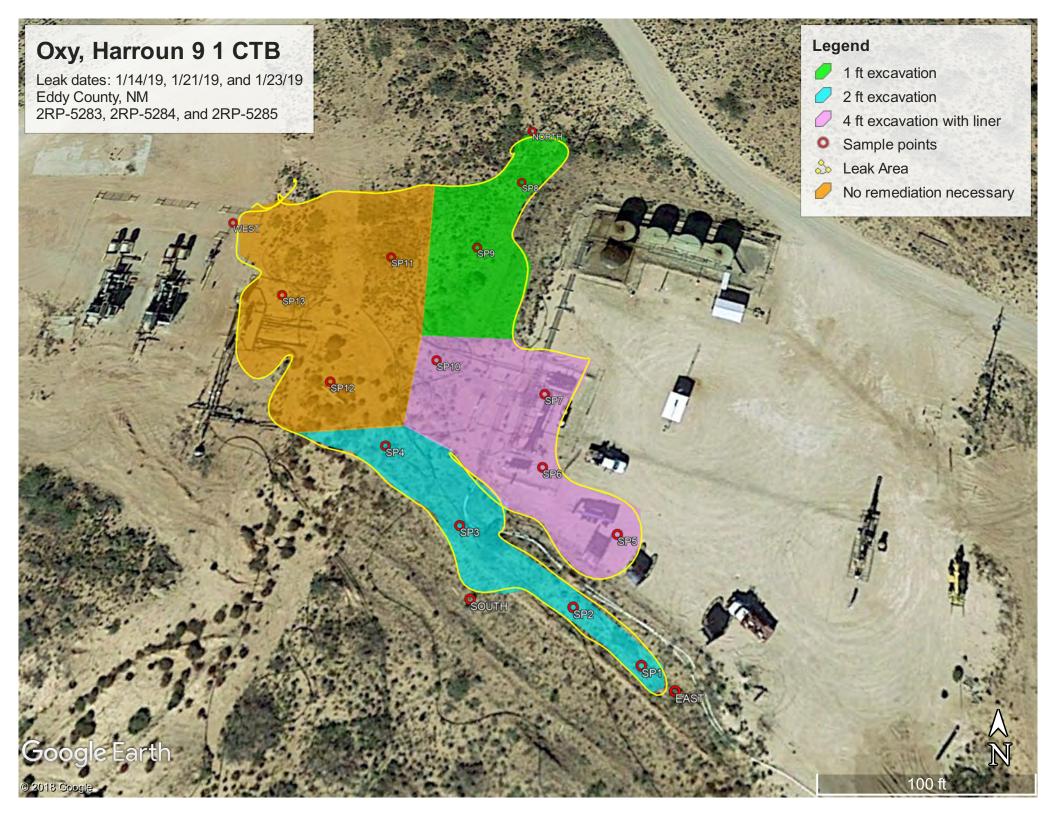
Incident ID		
District RP	2RP-5285	
Facility ID		
Application ID		le le

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-5285	
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items mu	ust be included in the plan.
Detailed description of proposed remediation technique	
 Scaled sitemap with GPS coordinates showing delineation Estimated volume of material to be remediated 	points
Closure criteria is to Table 1 specifications subject to 19.15	29.12(C)(4) NMAC
Proposed schedule for remediation (note if remediation pla	
Deferral Requests Only: Each of the following items must be	e confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or aroundeconstruction.	nd production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human h	nealth, the environment, or groundwater.
which may endanger public health or the environment. The acciliability should their operations have failed to adequately investigations.	Title: Environmental Coordinator
email: wade_dittrich@oxy.com	Date: 7-3/19 Telephone: (575) 390-2828
OCD Only	
Received by:	Date:
Approved Approved with Attached Condition	s of Approval
Signature:	Date:



Oxy, Harroun 9 1 CTB

Sample points

SP1, N 32.22613 W-103.98239

SP2, N 32.22621 W-103.98250

SP3, N 32.22633 W-103.98268

SP4, N 32.22645 W-103.98281

SP5, N 32.22631 W-103.98242

SP6, N 32.22641 W-103.98254

SP7, N 32.22653 W-103.98254

SP8, N 32.22693 W-103.98258

SP9, N 32.22680 W-103.98266

SP10, N 32.22659 W-103.98273

SP11, N 32.22678 W-103.98283

SP12, N 32.22656 W-103.98292

SP13, N 32.22671 W-103.98302

NORTH, N 32.22704 W-103.98256

SOUTH, N 32.22622 W-103.98266

EAST, N 32.22609 W-103.98234

WEST, N 32.22685 W-103.98313

Oxy, Harroun 9 1 CTB U/L P, Section 9, T24S, R29E Groundwater: 75'-100'





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater 🗸	New Mexico ✓	GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321355104012001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico Latitude 32°13'55", Longitude 104°01'20" NAD27 Land-surface elevation 2,983 feet above NAVD88 The depth of the well is 160 feet below land surface.

This well is completed in the Castile Formation (312CSTL) 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 measurem
1983-02-01		D	47.14			2		U		
1987-10-16		D	51.84			2		U		
1988-02-11		D	52.19			2		U		
1992-10-20		D	51.78			2		S		

Ex	plan	ation

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	S	Steel-tape measurement.
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
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA 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?

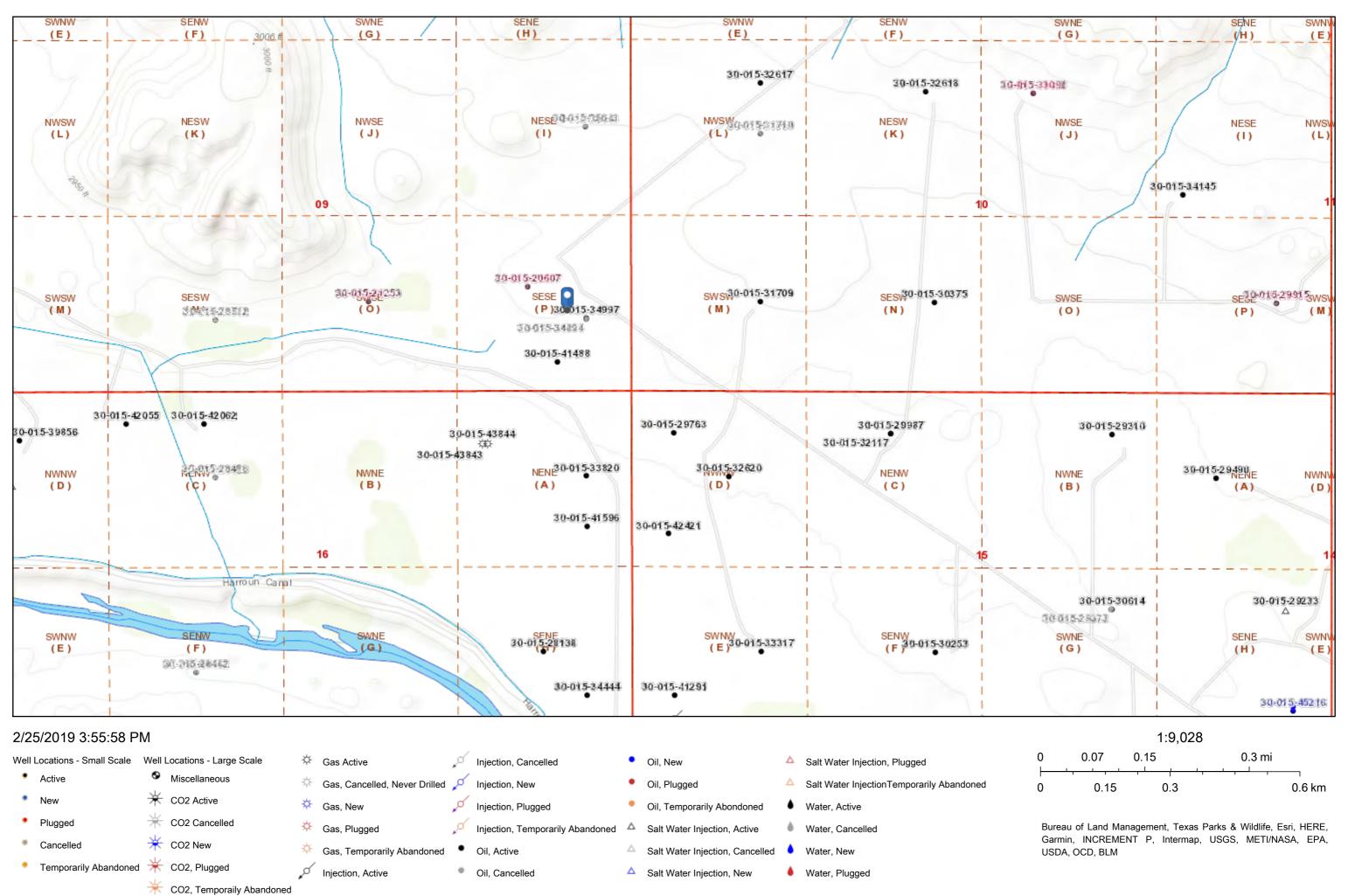
Page Contact Information: New Mexico Water Data Maintainer

Page Last Modified: 2019-02-25 18:04:30 EST

0.66 0.63 nadww01

USA.gov

Harroun 9 1 CTB



Oxy, Harrou 9 1 CTB

Leak dates: 1/14/19, 1/21/19, 1/23/19 Eddy County, NM AP# 30-015-34894

BLM CAVE KARST MAP

Legend



🚵 Leak Area



Medium potential



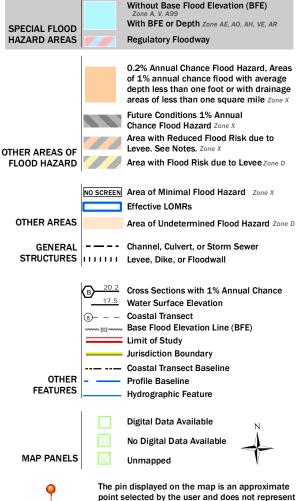


National Flood Hazard Layer FIRMette



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 2/25/2019 at 6:12:33 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.



		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		< 0.500	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		5.24	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		7.97	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		42.8	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		56	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		48	32	48	16	16	16	160	128
GRO	TPH 8015M		1450	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		21000	172	109	64.1	35	276	<10.0	<10.0
EXT DRO	TPH 8015M		3850	76	14.5	<10.0	<10.0	42.2	<10.0	<10.0

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'
Analyte	Method	Date	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.355	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		3.95	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		2.79	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.050
Total Xylenes	BTEX 8021B		19.3	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		26.4	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		112	16	32	16	32	16	48	64
GRO	TPH 8015M		521	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		16600	344	172	84.3	67.5	97.7	<10.0	<10.0
EXT DRO	TPH 8015M		4040	106	33.1	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'	SP3 @ 7'
Analyte	Method	Date	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19
-			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	< 0.050	< 0.050	< 0.050	< 0.050	<0.050	< 0.050	<0.050
Toluene	BTEX 8021B		3.98	<0.050	< 0.050	< 0.050	< 0.050	<0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		4.56	<0.050	< 0.050	< 0.050	< 0.050	<0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		29.7	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		38.3	<0.300	< 0.300	< 0.300	< 0.300	<0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		64	64	32	16	32	32	64	16
GRO	TPH 8015M		887	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		16100	230	37.2	27.2	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M	·	2640	40.4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

			CD4 @			
		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
		Sample ID	SURFACE	3F4 @ I	3F4 @ 2	3F4 @ 3
Analyte	Method	Date	2/27/19	2/27/19	3/1/19	3/1/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		2.85	<0.200	< 0.050	< 0.050
Toluene	BTEX 8021B		24.6	2.78	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		10.7	4.87	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		67	27.2	<0.150	<0.150
Total BTEX	BTEX 8021B		105	34.8	< 0.300	< 0.300
Chloride	SM4500CI-B		416	80	32	48
GRO	TPH 8015M		1970	510	<10.0	<10.0
DRO	TPH 8015M		27500	2740	49.3	<10.0
EXT DRO	TPH 8015M		5320	507	17.3	<10.0

			SP5 @			
		Sample ID	SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	3/1/19	3/1/19	3/1/19	3/1/19
			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		68000	1410	352	880
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		91.7	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		23.7	<10.0	<10.0	<10.0

			SP6 @											
		Sample ID	SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 6'	SP6 @ 7'	SP6 @ 8'	SP6 @ 9'	SP6 @ 10'	SP6 @ 11'
Analyte	Method	Date	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/5/19	3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		< 0.500	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		1.13	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.976	< 0.050	< 0.050	< 0.050	< 0.050	0.058	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		7.12	<0.150	<0.150	<0.150	<0.150	0.415	<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		9.22	< 0.300	< 0.300	< 0.300	< 0.300	0.473	< 0.300	< 0.300	< 0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		18400	9920	8080	6800	6640	10400	9200	6560	6800	6320	48	48
GRO	TPH 8015M		163	<10.0	<10.0	<10.0	<10.0	10	<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		24400	396	61.9	24.9	26.7	1720	18	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		4050	60.8	<10.0	<10.0	<10.0	415	<10.0	<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'	SP7 @ 6'	SP7 @ 7'	SP7 @ 8'	SP7 @ 9'	SP7 @ 10'
Analyte	Method	Date	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/5/19	3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a	< 0.050
Toluene	BTEX 8021B		0.58	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a	< 0.050
Ethylbenzene	BTEX 8021B		0.9	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a	< 0.050
Total Xylenes	BTEX 8021B		7.22	0.205	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		8.7	<0.300	< 0.300	< 0.300	< 0.300	< 0.300	n/a	n/a	n/a	n/a	< 0.300
Chloride	SM4500CI-B		13600	14800	11300	8800	7440	8800	5840	4000	2200	48	80
GRO	TPH 8015M		118	<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0
DRO	TPH 8015M		9370	612	17.7	<10.0	<10.0	15.9	n/a	n/a	n/a	n/a	<10.0
EXT DRO	TPH 8015M		1330	226	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0

			SP8 @			
		Sample ID	SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	3/4/19	3/4/19	3/4/19	3/4/19
			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		1220	48	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1040	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		375	<10.0	<10.0	<10.0

			SP9 @			
		Sample ID	SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	3/4/19	3/4/19	3/4/19	3/4/19
			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		0.277	<0.150	<0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		880	384	176	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		175	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		84.3	<10.0	<10.0	<10.0

			SP10 @									
		Sample ID	SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'	SP10 @ 4'	SP10 @ 5'	SP10 @ 6'	SP10 @ 7'	SP10 @ 8'	SP10 @ 9'
Analyte	Method	Date	3/4/19	3/4/19	3/4/19	3/4/19	3/4/19	3/5/19	3/4/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		256	8960	6800	13600	11800	7600	8720	3280	64	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		22.3	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

	1		0044			
		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	3/5/19	3/5/19	3/5/19	3/5/19
			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		48	48	96	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 2'	SP12 @ 3'
Analyte	Method	Date	3/5/19	3/5/19	3/5/19	3/5/19
			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		64	48	32	32
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

Laboratory Analytical Results Summary Harroun 9-1 CTB (1/14/19, 1/21/19, 1/23/19)

			SP13 @			
		Sample ID	SURFACE	SP13 @ 1'	SP13 @ 2'	SP13 @ 3'
Analyte	Method	Date	3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		0.169	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.063	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		0.35	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.582	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		64	32	80	48
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

			NORTH @	EAST @	WEST @	SOUTH @
		Sample ID	SURFACE	SURFACE	SURFACE	SURFACE
Analyte	Method	Date	3/4/19	3/4/19	3/4/19	3/4/19
			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	32	48	32
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



March 15, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARROUN 9-1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/08/19 16:30.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

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,

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: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 1 @ SURFACE (H900955-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	5.24	0.500	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	7.97	0.500	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	42.8	1.50	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	56.0	3.00	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1450	50.0	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	21000	50.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	3850	50.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	236	% 41-142	!						
Surrogate: 1-Chlorooctadecane	852	% 37.6-14	7						

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 1 @ 1' (H900955-02)

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	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 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	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	172	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	76.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	!						

Surrogate: 1-Chlorooctane 103 % 41-142
Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: OXY

ma/ka

Sample ID: SP 1 @ 2' (H900955-03)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	109	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	14.5	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	110 %	6 41-142	?						

Surrogate: 1-Chlorooctane 110 % 41-142 Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 1 @ 3' (H900955-04)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	< 0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	< 0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.1 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	64.1	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	103 %	% 41-142	<u> </u>						

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

112 %

37.6-147

Sample ID: SP 1 @ 4' (H900955-05)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	35.0	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142	!						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 1 @ 5' (H900955-06)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	276	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	42.2	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	104 %	6 41-142	!						

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 1 @ 6' (H900955-07)

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	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	< 0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.69	% 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	160	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	198	99.2	200	4.49	

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 1 @ 7' (H900955-08)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 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	128	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142	?						

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 2 @ SURFACE (H900955-09)

BTEX 8021B	mg	mg/kg Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.355	0.200	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	3.95	0.200	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	2.79	0.200	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	19.3	0.600	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	26.4	1.20	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 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	112	16.0	03/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	521	50.0	03/11/2019	ND	192	95.9	200	0.739	

ND

ND

198

99.2

200

4.49

03/11/2019

03/11/2019

Surrogate: 1-Chlorooctane 136 % 41-142 Surrogate: 1-Chlorooctadecane 789 % 37.6-147

16600

4040

50.0

50.0

DRO >C10-C28*

EXT DRO >C28-C36

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 2 @ 1' (H900955-10)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	344	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	106	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	109 %	% 41-142	!						

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: me

Project Location: OXY

ma/ka

Sample ID: SP 2 @ 2' (H900955-11)

RTFY 8021R

BIEX 8051B	mg/	кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	< 0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	172	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	33.1	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142	•						

Surrogate: 1-Chlorooctane 105 % 41-142
Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 2 @ 3' (H900955-12)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	84.3	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	110 %	6 41-142	!						

119 %

37.6-147

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 2 @ 4' (H900955-13)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	67.5	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	106 %	% 41-142	!						

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Celey D. Keine

116 %

37.6-147

Surrogate: 1-Chlorooctadecane



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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 2 @ 5' (H900955-14)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	< 0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	97.7	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	106 %	6 41-142	!						

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: me

Project Location: OXY

ma/ka

Sample ID: SP 2 @ 6' (H900955-15)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	?						

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 2 @ 7' (H900955-16)

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	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	< 0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4 %	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	64.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	94.1 9	% 41-142	!						
Surrogata: 1 Chloroctadacana	08 2 9	V 37.6.14	7						

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 3 @ SURFACE (H900955-17)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	3.98	0.500	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	4.56	0.500	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	29.7	1.50	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	38.3	3.00	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	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	64.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	887	100	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	16100	100	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	2640	100	03/12/2019	ND					
Surrogate: 1-Chlorooctane	183 9	% 41-142							

Surrogate: 1-Chlorooctadecane 651 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 3 @ 1' (H900955-18)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 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	64.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	230	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	40.4	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142							

Surrogate: 1-Chlorooctane 103 % 41-142 Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 3 @ 2' (H900955-19)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	37.2	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	98.8 9	% 41-142	<u> </u>						

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: ms

Project Location: OXY

mg/kg

Sample ID: SP 3 @ 3' (H900955-20)

BTEX 8021B

DIEX COLLE	9/	~ 9	Andryzo	u by: 1115					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	27.2	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	106 %	% 41-142							

Surrogate: 1-Chlorooctane 106 % 41-142
Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 3 @ 4' (H900955-21)

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	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142							

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: me

Project Location: OXY

ma/ka

Sample ID: SP 3 @ 5' (H900955-22)

RTFY 8021R

B1EX 8021B	mg	/ Kg	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate: 1-Chlorooctadecane	106	% 376-14	7						

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 3 @ 6' (H900955-23)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 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	64.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142							

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 3 @ 7' (H900955-24)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	< 0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	107 9	% 41-142							

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 4 @ SURFACE (H900955-25)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.85	0.500	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	24.6	0.500	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	10.7	0.500	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	67.0	1.50	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	105	3.00	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 73.3-12	19						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1970	50.0	03/12/2019	ND	204	102	200	9.36	

ND

ND

206

103

200

7.22

03/12/2019

03/12/2019

Surrogate: 1-Chlorooctane	249 %	41-142
Surrogate: 1-Chlorooctadecane	998 %	37 6-147

27500

5320

50.0

50.0

DRO >C10-C28*

EXT DRO >C28-C36

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 02/27/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: me

Project Location: OXY

ma/ka

Sample ID: SP 4 @ 1' (H900955-26)

RTFY 8021R

BIEX 8021B	mg/	кg	Anaiyze	a By: ms					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	2.78	0.200	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	4.87	0.200	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	27.2	0.600	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	34.8	1.20	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	132 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	510	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	2740	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	507	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	187 9	% 41-142	!						

Surrogate: 1-Chlorooctane 187 % 41-142
Surrogate: 1-Chlorooctadecane 218 % 37.6-147

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Celey D. Keine

S-04



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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 4 @ 2' (H900955-27)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	49.3	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	17.3	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	95.69	% 41-142	!						

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 4 @ 3' (H900955-28)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	98.4	% 41-142	1						

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 5 @ SURFACE (H900955-29)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	68000	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	91.7	10.0	03/12/2019	ND	206	103	200	7.22	

ND

03/12/2019

Surrogate: 1-Chlorooctane 98.5 % 41-142 Surrogate: 1-Chlorooctadecane 108 % 37.6-147

23.7

10.0

EXT DRO >C28-C36

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 5 @ 1' (H900955-30)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 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	1410	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	,						

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37.6-147

107 %

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 5 @ 2' (H900955-31)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 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	352	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	93.1	% 41-142	!						

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 5 @ 3' (H900955-32)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	880	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142	?						
Surrogata: 1 Chlorocetadaeana	106.9	0/ 37614	7						

106 % Surrogate: 1-Chlorooctadecane 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ SURFACE (H900955-33)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	1.13	0.500	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	0.976	0.500	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	7.12	1.50	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	9.22	3.00	03/12/2019	ND					

	Surrogate:	4-Bromofluorobenzene	e (PID	96.9 %	73.3-129
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Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	163	50.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	24400	50.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	4050	50.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 459 % 41-142 Surrogate: 1-Chlorooctadecane 867 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: me

Project Location: OXY

ma/ka

Sample ID: SP 6 @ 1' (H900955-34)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	< 0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1 %	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	9920	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	396	10.0	03/11/2019	ND	223	112	200	19.2	

Surrogate: 1-Chlorooctane 86.7 % 41-142
Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 2' (H900955-35)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8080	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	61.9	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142	?						

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 3' (H900955-36)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7 9	% 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	6800	16.0	03/13/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	24.9	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	88.1 9	% 41-142							

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 4' (H900955-37)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	6640	16.0	03/13/2019	ND	400	100	400	0.00	QM-07
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	26.7	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	72.6	% 41-142	?						

Surrogate: 1-Chlorooctadecane 81.2 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 5' (H900955-38)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	0.058	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	0.415	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	0.473	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 73.3-12	9						

Surroguie. I Bromojinorosenzene (1 12	, , , , ,	70 73.3 12							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	03/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	1720	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	415	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 92.9 % 41-142 Surrogate: 1-Chlorooctadecane 150 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 6' (H900955-39)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	18.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	79.5 9	% 41-142	<u> </u>						

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 7' (H900955-40)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 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	6560	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	83.8	% 41-142							

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 8' (H900955-41)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 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	6800	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	?						
Summanda I Chlono atadasana	045	0/ 27 6 1 4	17						

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 6 @ 9' (H900955-42)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Re	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 6 @ 10' (H	1900955-43)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 6 @ 11' (H900955-44)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	400	0.00	

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 7 @ SURFACE (H900955-45)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	0.580	0.500	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	0.900	0.500	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	7.22	1.50	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	8.70	3.00	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	13600	16.0	03/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	118	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	9370	10.0	03/11/2019	ND	223	112	200	19.2	

Surrogate: 1-Chlorooctane 543 % 41-142 Surrogate: 1-Chlorooctadecane 280 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 7 @ 1' (H900955-46)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	0.205	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8	% 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	14800	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	612	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	226	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	78.1	% 41-142	?						

Surrogate: 1-Chlorooctane 78.1 % 41-142
Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 7 @ 2' (H900955-47)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11300	16.0	03/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	17.7	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	82.0	% 41-142	?						

Surrogate: 1-Chlorooctadecane 91.6% 37.6-147

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Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: me

Project Location: OXY

ma/ka

Sample ID: SP 7 @ 3' (H900955-48)

RTFY 8021R

BIEX 8021B	mg/	кд	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 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	8800	16.0	03/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	84.4	% 41-142							

Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 7 @ 4' (H900955-49)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	< 0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	7440	16.0	03/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	84.9 9	% 41-142	1						

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/01/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 7 @ 5' (H900955-50)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 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	8800	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	15.9	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	76.2	% 41-142							

85.4 %

37.6-147

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 7 @ 6' (H900955-51)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 7 @ 7' (H9	00955-52)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 7 @ 8' (H9	00955-53)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 7 @ 9' (H9	00955-54)								
Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	400	0.00	

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 7 @ 10' (H900955-55)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 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	80.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	82.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.6	% 37 6-14	7						

90.6 % Surrogate: 1-Chlorooctadecane 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 8 @ SURFACE (H900955-56)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.2 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	1040	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	375	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	76.9 9	% 41-142	?						

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 8 @ 1' (H900955-57)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 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	48.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	81.8	% 41-142	?						
Surrogate: 1 Chlorocetadaeana	00.3	0/, 37614	7						

90.3 % Surrogate: 1-Chlorooctadecane 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: ms

Project Location: OXY

mg/kg

Sample ID: SP 8 @ 2' (H900955-58)

BTEX 8021B

DIEX COLLD	9	7 1.9	Analyzo	a 27: 1115					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	81.2	% 41-142	?						
G . 1 CH . 1	00.1	0/ 27/1/	7						

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson 1/14/19 , 1/21/19, 1/23/19

Analyzed By: me

Project Location: OXY

ma/ka

Sample ID: SP 8 @ 3' (H900955-59)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	78.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	17						

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: me

Project Location: OXY

Sample ID: SP 9 @ SURFACE (H900955-60)

RTFY 8021R

BIEX 8051R	mg/	кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	0.277	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	880	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	175	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	84.3	10.0	03/11/2019	ND					
Surrogate: 1-Chlorooctane	67.4 9	% 41-142	<u> </u>						

Surrogate: 1-Chlorooctane 67.4 % 41-142
Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 9 @ 1' (H900955-61)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.69	% 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	384	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	82.2 9	% 41-142	?						
Surrogate: 1-Chloroctadecane	0130	0/2 376.14	7						

91.3 % Surrogate: 1-Chlorooctadecane 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 9 @ 2' (H900955-62)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	< 0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	< 0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.0 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	81.8 9	% 41-142	?						
Surrogate: 1 Chloroctadocano	01.00	V 37.6.14	7						

91.9 % Surrogate: 1-Chlorooctadecane 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 9 @ 3' (H900955-63)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.5	% 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	80.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	86.3	% 41-142	?						

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 10 @ SURFACE (H900955-64)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.5	% 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	256	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	22.3	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	83.4	% 41-142	,						

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: MS

Project Location: OXY

mg/kg

Sample ID: SP 10 @ 1' (H900955-65)

BTEX 8021B

DILX GOZID	11197	Ng .	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.3	% 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	8960	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	78.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.0	% 37.6-14	7						

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 10 @ 2' (H900955-66)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	< 0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	79.4	% 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	6800	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	85.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.8	% 37.6-14	7						

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 10 @ 3' (H900955-67)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	79.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.3	% 37.6-14	7						

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Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 10 @ 4' (H900955-68)

Chloride, SM4500CI-B	mg	ng/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 10 @ 5' (H90	00955-69)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 10 @ 6' (H90	00955-70)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8720	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 10 @ 7' (H90	00955-71)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	03/13/2019	ND	400	100	400	0.00	
Sample ID: SP 10 @ 8' (H90	00955-72)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/13/2019	ND	400	100	400	0.00	

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 10 @ 9' (H900955-73)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/13/2019	ND	400	100	400	0.00	

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 11 @ SURFACE (H900955-74)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	85.5	% 41-142							

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson 1/14/19 , 1/21/19, 1/23/19

Project Location: OXY

Sample ID: SP 11 @ 1' (H900955-75)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	82.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	86.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.69	% 37 6-14	7						

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: MC

Project Location: OXY

Sample ID: SP 11 @ 2' (H900955-76)

RTFY 8021R

B1EX 8021B	mg	кg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.9	% 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	96.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: OXY

Sample ID: SP 11 @ 3' (H900955-77)

RTFY 8021R

BIEX 8021B	mg/	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	84.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	77.9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	86.3	% 37.6-14	7						

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 12 @ SURFACE (H900955-78)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	82.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	83.0	% 41-142	 !						

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 12 @ 1' (H900955-79)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	78.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142	?						
Surrogate: 1 Chloroctadocano	01.1	0/, 37614	7						

94.4 % Surrogate: 1-Chlorooctadecane 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: MC

Project Location: OXY

Sample ID: SP 12 @ 2' (H900955-80)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.7	% 73.3-12	19						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	76.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.7	% 376-14	17						

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: MC

Project Location: OXY

Sample ID: SP 12 @ 3' (H900955-81)

RTFY 8021R

BIEX 8021B	mg	кg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	< 0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	< 0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.3	% 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	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.6	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 96.6 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SP 13 @ SURFACE (H900955-82)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	0.169	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	0.063	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	0.350	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	0.582	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.5	% 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	64.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	78.7	% 41-142	?						
G 1 GH 1	0.5.4	0/ 27/1	-						

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: MC

Project Location: OXY

Sample ID: SP 13 @ 1' (H900955-83)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	82.1	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	79.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89 1	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 13 @ 2' (H900955-84)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	82.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	84.3	% 41-142	?						
Surrogata: 1 Chloroctadaeana	03.7	0/, 37614	7						

93.7 % Surrogate: 1-Chlorooctadecane 37.6-147

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Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/05/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: SP 13 @ 3' (H900955-85)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	81.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.3	% 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: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: NORTH @ SURFACE (H900955-86)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	75.6	% 41-142							

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Analyzed By: MC

Project Location: OXY

RTFY 8021R

Sample ID: EAST @ SURFACE (H900955-87)

ma/ka

BIEX 8021B	mg/	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	78.8	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.0	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 1/14/19 , 1/21/19, 1/23/19 Jodi Henson

Project Location: OXY

Sample ID: WEST @ SURFACE (H900955-88)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.01	100	2.00	0.103	
Toluene*	< 0.050	0.050	03/12/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8 %	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	48.0	16.0	03/13/2019	ND	400	100	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	03/15/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	91.3 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89 5 9	% 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: 03/08/2019 Sampling Date: 03/04/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: HARROUN 9-1 CTB Sampling Condition: Cool & Intact
Project Number: 1/14/19, 1/21/19, 1/23/19 Sample Received By: Jodi Henson

Project Location: OXY

Sample ID: SOUTH @ SURFACE (H900955-89)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/12/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	32.0	16.0	03/13/2019	ND	400	100	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	03/15/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	90.5	% 41-142	·						

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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Notes and Definitions

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

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

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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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476	
Company Name: BBC International, Inc.	BILL TO
Project Manager: Cliff Brunson	P.O. #:
Address: P.O. Box 805	Company:
City: Hobbs State: NM Zip: 88241	Attn: W. Ditterich
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:
Project #: Project Owner: Oxy	City:
Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	State: Zip:
Project Location:	Phone #:
Sampler Name: Jeff Ornelas	Fax#:
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING
Lab I.D. Sample I.D. OR (C)OMP. AINERS DWATER WATER	SE: DOL

H00955

(G)RAB OF # CONTAIN GROUNDY WASTEWA SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER

2/27/19

9:55 AM 9:44 AM DATE

TIME

2/27/19 2/27/19

10:15 AM

SP1 @ SURFACE SP1 @ 1' SP1 @ 2'

SP1 @ 5' SP1 @ 4' SP1 @ 3'

SP1 @ 7' SP1 @ 6'

areayees. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the agreement of the agreement shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries. SP2 @ SURFACE SP2 @ 1' 2/27/19 11:44 AM

2/27/19

11:33 AM

2/27/19 11:19 AM

2/27/19

11:11 AM

2/27/19 11:01 AM

2/27/19 2/27/19

10:51 AM 10:33 AM

Relinquished By:	Date: Received By:	Phone P	Result:	□ Yes	ONO	Add'l Phone #:
1000	1 41.95	Fax Result:	sult:	☐ Yes	Yes No	Add'l Fax #:
Serio 431	Time: 4:30 M Mall +	REMARKS:	KS:			
Relinquished By:	Date: 3 8 10 Received By:	6				
Whalf Hana	Time: 4: 20 M	The Man				
0	- year	Jan Soll				
Delivered By: (Circle One)	2 Sample Co	dition CHECKED BY:				
Sampler - UPS - Bus - Other:	TO #OU COOL Into	(Initials)				
		7				

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	1 1				ı	١			
Company Name:	BBC International, Inc.		BILL TO	70			ANALY	ANALYSIS REQUEST	
Project Manage	Project Manager: Cliff Brunson		P.O. #:						
Address: P.O. Box 805	Box 805		Company: (5)	**					
city: Hobbs	State: NM	Zip: 88241	Attn: L	this	7				
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:						
Project #:	Project Owner: Oxy	ner: Oxy	City:					_	
Project Name:	Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	/19, 1/23/19	State: Zip:	×					
Project Location:	R		Phone #:				+		
Sampler Name:	Jeff Ornelas		Fax #:				Ξx		
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING			E		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	C/	BTE	TPH		
=	SP2 @ 2'	9	· 2/2	2/27/19 11:55 AM	<	<	`		
12	SP2 @ 3'		2/3	2/27/19 12:12 PM	<	<	<		
27	SP2 @ 4'		2/2	2/27/19 12:51 PM	<	<	<		
14	SP2 @ 5'		2/2	2/27/19 1:01 PM	<	<	<u> </u>		
2	SP2 @ 6'		2/2	2/27/19 1:11 PM	<	<	<		
	SP2 @ 7'		2/	2/27/19 1:25 PM	<	<	· <		
	SP3 @ SURFACE		2/	2/27/19 1:29 PM	<	<	<		
8	SP3 @ 1'		2/	2/27/19 1:35 PM	<	•	<		
9	SP3 @ 2'		2/:	2/27/19 1:45 PM	<	<	<		
25	SP3 @ 3'	4	¥ 2/2	2/27/19 2:01 PM	<	<	\ 		
PLEASE NOTE: Liability :	and Damages. Cardinal's liability and client's exclusive remedy	r for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	contract or tort, shall be limited to the	e amount paid by the client for	s the				

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

Sampler - UPS - Bus - Other: 4,36

#0

Sample Condition
Cool Intact
Cool Pres Pres
No No

Unitials)

Delivered By: (Circle One)

nace

Time: 4030 Am

Relinquished By

Date; 3 6 /9

Luca

Phone Result: Fax Result: REMARKS:

□ Yes

O No

Add'l Phone #: Add'l Fax #:

Date: 3-8-19 Received By:

service in no event shall Ca affiliates or successors arian Relinquished By

2

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(000) 000 -000 (000) 000	ľ			١			_
Company Name: BBC International, Inc.		BILL TO		1		ANALYSIS REQUEST	_
Project Manager: Cliff Brunson		P.O. #:					_
Address: P.O. Box 805		Company: Oxy		_			_
City: Hobbs State: NM	Zip: 88241	Attn: W. D'H	reck	_			_
5-397-6388 Fax #:	575-397-0397	Address:		_			_
Project #: Project Owner: Oxy	r. Oxy	City:		_			_
ame: Harroun 9-1 CTB, 1/1	9, 1/23/19	State: Zip:		_	+		
Project Location:		Phone #:			x:		_
Sampler Name: Jeff Ornelas		Fax #:		_	E		_
\neg	MATRIX	PRESERV. SAMPLING	ING	_			
Lab I.D. Sample I.D.	S)RAB OR (C)OMI CONTAINERS ROUNDWATER VASTEWATER OIL IL LUDGE	THER: CID/BASE: EE/COOL THER:		CI	BTE		
2) SP3 @ 4'	-	2/27/19	2:15 PM	^	1		
1		2/27/19	2:22 PM	^	< <		
25 SP3 @ 6'		2/27/19	2:35 PM	<	< <		
		2/27/19	2:50 PM	<	1		
25 SP4 @ SURFACE		2/27/19	2:55 PM	^	4		
7/ ₆ SP4 @ 1'		2/27/19	3:01 PM	<	1		
27 SP4 @ 2'		3/1/19	9:59 AM	١	< <		
28 SP4 @ 3'		3/1/19	10:25 AM	<	<		
79 SP5 @ SURFACE		3/1/19	10:30 PM	<	4		
30 SP5 @ 1'	4 4		10:35 PM	1	< <		L
its liability and client's excluse whose and any other cause who cidental or consequental d	seve remedy for any claim ansing whether based in contract absorver shall be deemed waived unless made in writing an absorver shall be deemed waived unless inder judicing without similation. Such claims as interruptions,	act or tort, shall be limited to the amount pa and received by Cardina) within 30 days afti re, loss of use, or loss of profits incurred by arm is based upon any of the above stated re	paid by the client for the after completion of the a by client, its subsidiaries treasons or otherwise	applicable s,			
Relinquished By: Date: 38-79 Time: 4:30	Received By:		Phone Result: Fax Result: REMARKS:	1.13	O Yes O	No Add'l Phone #: No Add'l Fax #:	
d By:	Date: 3, 649 Received By:	Genson					
Delivered By: (Circle One)	-	tion CHECKED BY:					
Sampler - UPS - Bus - Other: 4,50 +47	97 Pres Pres						

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-2476	1/6					
Company Name:	BBC International, Inc.		BILL TO	0		ANALYSIS REQUES	JEST
Project Manager	Project Manager: Cliff Brunson		P.O. #:				
Address: P.O.	P.O. Box 805		Company:				
city: Hobbs	State: NM	Zip: 88241	Attn:				
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:				
Project #:		er: Oxy	City:				
ame:	Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	19, 1/23/19	State: Zip:		-		
Project Location	n:		Phone #:		1		
Sampler Name:	Jeff Ornelas		Fax #:		Ex		
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING			
Lab I.D.	Sample I.D.	S)RAB OR (C)OMP CONTAINERS ROUNDWATER VASTEWATER DIL	LUDGE THER: CID/BASE: EE/COOL THER:		BTE		
19	SP5 @ 2'	-#	\$ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	1 1 1		
35	SP5 @ 3'		3/1/19	9 10:59 AM	1 1		
in	SP6 @ SURFACE		3/1/19	9 11:05 AM	1 1		
12	(8)		3/1/19	11:11 AM	1 1 1		
28	SP6 @ 2'		3/1/19	11:22 AM	\ \ \ \		
14	SP6 @ 3'		3/1/19	9 11:33 AM	1 1 1		
22	SP6 @ 4'		3/1/19	9 11:44 AM	1 1		
38	SP6 @ 5'		3/1/19	9 11:55 AM	1 1		
29	SP6 @ 6'		3/1/19	9 12:12 PM	1 1 1		
dh	SP6 @ 7'	¥ ₩ .	3/5/19	10:12 AM	1 1 1		
PLEASE NOTE: Liability a analyses All claims includ service. In no event shall (PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arraing whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competition of the applicable service. In no event shall Cardinal be flable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of positis morning of positis morning or position for the position of the applicable service.	for any claim arising whether based in the desiried waived unless made in w using without limitation, business inten-	ed in contract or tort, shall be limited to the amo in writing and received by Casidnai within 30 d interruptions, icas of use, or loss of profits in our interruptions, icas of use, or loss of profits in our	ount paid by the client for the ays after completion of the ag- red by client, its subsidiaries what reasons no otherwise	pplicable		
Relinquished By:	Date: 4.6	Received By:		Phone Result: Fax Result: REMARKS:	□ Yes □	No Add'l Phone #: No Add'l Fax #:	
Relinquished By:		Date: 3.8.4 Received By: Time: 41:30 PM	Menson	7			
Delivered By	Delivered By: (Circle One)		Condition CHECKED BY:				
Sampler - UPS	Sampler - UPS - Bus - Other: 4,3c/	O No O No	No W				

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(000) 000 2020 (000) 00				l		
Company Name:	e: BBC International, Inc.		BILL TO	70			ANALYSIS REQUEST
Project Manage	Project Manager: Cliff Brunson		P.O. #:				
Address: P.O. Box 805	. Box 805		Company:	Č	_		
city: Hobbs	State: NM	NM zip: 88241	Attn: (C. L.	thick	_		
Phone #: 575-397-6388	-397-6388 Fax #:	575-397-0397	Address:		_		
Project #:	Project	Project Owner: Oxy	City:		_		
Project Name:	Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	1/21/19, 1/23/19	State: Zip:		_	I	
Project Location:	in:		Phone #:		_	+	
Sampler Name:	: Jeff Ornelas		Fax #:		_	x:	
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING			
Lab I.D. Н950955	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	C1	BIE	
lh	SP6 @ 8'	9	3/5/19	19 10:33 AM	1	_	
42			3/5/19	19 10:41 AM	_		
75	_		3/5/19	10:49 AM	۸		
hh			3/5/19	19 10:59 AM	_		
53	_		3/1/19	19 1:01 PM	٠	`	
9h	SP7 @ 1'		3/1/19	19 1:11 PM	<u> </u>	<	
47	SP7 @ 2'		3/1/19	19 1:29 PM	< <	\ <	
8			3/1/19	19 1:48 PM	<	_	
Ah	SP7 @ 4'		3/1/19	19 2:15 PM	<u> </u>	_	
8	_	4	₩ 3/1/19	9 2:51 PM	1 1	1	
PLEASE NOTE: Liability analyses All claims inclusion in no event shall be a service. In no event shall be a service of the ser	PLEASE NOTE: Litabily and Damages, Cardmal's liability and client's exclusive remedy for any claim arising whether based in contract or lord, shall be limited to the amount paid by the client for the analyses. All calms, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardmal within 30 days after competion of the applicable service. In no event shall Cardmal be label for incidental or consequental damages, including without initiation, business interruptions, loss of labe, or loss of profits incurred by client, its subsidiaries, service in one event shall Cardmal be label for incidental or consequental damages, including without initiation, business interruptions, loss of labe, or loss of profits incurred by client, its subsidiaries, services are profit and the label for incidental or consequental damages, including without initiation, business interruptions, loss of labe, or loss of profits incurred by client, its subsidiaries, assume that the label for incidental or consequential damages, including without initiation, business interruptions, loss of label or loss of profits incurred by client, its subsidiaries, assume that the label for incidental or consequential damages, including without metablic interests interruptions, loss of label for incidental or consequential damages, including without metablic interests interruptions, loss of label for incidental or consequential damages, including which will be applicable to the label for incidental or consequential damages, including which will be applicable to the label for incidental or consequential damages, including which will be applicable to the label for incidental or consequential damages, including which will be applicable to the label for incidental or consequential damages, including which are consequently as a second or consequently as a	remedy for any claim arising whether based in cremedy for any claim arising whether based in the very shall be deemed waiwed unless made in Writes, including without limitation business interrules, including without limitation business of whether such	contract or lort, shall be limited to the an ting and received by Cardinal within 30 galons, loss of use, or loss of profits inclu- n claim is belieful izon any of the above.	nount paid by the client for the days after completion of the a urred by client, its subsidiaries stated reasons or otherwise.	applicable		
Relinquished By:	By: Date: 9 P. 10	- N	Received By:	9		□ Yes □ No	
SHY.	1000	Time: 11-2000 Wallast	Halla	REMARKS:		Yes No	o Add'l Fax #:
1	\		-	The second second			

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By

Date: 4. 8-1

Time: 420 PM

siace



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-2476	
ES 88240	

Company Name: BBC International, Inc.	BILL TO	0	-	1	ANALYSIS	SIS REQUEST
Project Manager: Cliff Brunson	BO #:					
of commence of the property	7.0. #					
Address: P.O. Box 805	Company: Og (_			
city: Hobbs State: NM Zip: 88241	Attn: W. D.	their		_		
5-397-6388 F	Address:					
Project #: Project Owner: Oxy	City:					
ame: Harroun 9-1 CTB, 1/1	State: Zip:					
Project Location:	Phone #:				x 7	
Sampler Name: Jeff Ornelas	Fax #:				E.	_
).	MATRIX PRESERV. SAI	SAMPLING		X		
Lab I.D. Sample I.D. (G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	CI	BTE	TPH	
SP7 @ 6'	3/5/19	9 10:30 AM	<			
SP7 @ 7'	3/5/19	9 10:31 AM	<			
	3/5/19	9 10:41 AM	<			
54 SP7 @ 9'	3/5/19	9 10:45 AM	<			
_	3/5/19	9 10:55 AM	<	١	<	
56 SP8 @ SURFACE	3/4/19	9 11:33 AM	<	٠	`	
$\overline{}$	3/4/19	9 11:58 AM	<	<	_	
$\overline{}$	3/4/19	9 12:55 PM	١	<	\ 	
	3/4/19	9 12:56 PM	۸	<	•	
SP9 @ SURFACE	3/4/19	12:58 PM	<	<u> </u>	\ 	

Délivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Time:436 PM

Date: Received By:

Time:4130 MI

Hack

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

173V

Relinquished By



	וספטן סטט בטבט י הה נסטטן סטט בי				l	l			l			ı
Company Name:	BBC International, Inc.		BILL TO	,				ANALYSIS		REQUEST		_
Project Manager:	1		P.O. #:			_			7			
Address: P.O. Box 805	Box 805		Company: Oxy		_				_			_
city: Hobbs	State: NM	zip: 88241	Attn: W. W. +	trier		_						_
Phone #: 575-	575-397-6388 Fax #: 57	575-397-0397	Address:		_	_	_					_
Project #:	Project Owner: Oxy	er: Oxy	City:			_	_		_			
Project Name:	Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	19, 1/23/19	State: Zip:		_	_	+		_	_		
Project Location:	n		Phone #:			_	x					
Sampler Name:	Jeff Ornelas		Fax #:			_	E					
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	PLING			1					
Lab I.D. H900955	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TIME	CI	BTE	TPL					
6	SP9 @ 1'	_	1	12:59 PM	^	`	1				1000	_
102	SP9 @ 2'	-	1 3/4/19	1:07 PM	۸	_	<u> </u>					
63	SP9 @ 3'		3/4/19	1:09 PM	^	^	•					
161	SP10 @ SURFACE		3/4/19	1:11 PM	۷	`	<u> </u>					
59	SP10 @ 1'		3/4/19	1:15 PM	١	١	`					
de	SP10 @ 2'		3/4/19	1:20 PM	۷	`	<u> </u>					
67	SP10 @ 3'		3/4/19	1:30 PM	<	^	_					
68	SP10 @ 4'		3/4/19	2:01 PM	١							
69	SP10 @ 5'		3/5/19	9:11 AM	^							
	10 @ 6'	**		9:31 AM	`	H	H	F	r	F		_
PLEASE NOTE: Liability a analyses. All claims includi service. In no event shall C affiliates or successors ans	ALEASE, MULE: Labory and burnages, valorials sound and cereis soutcer interest or any seat in contract or far, state or interest or the cerein of the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made to writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequental chamages, including without limitation, business interruptions, loss of up6, offices of profits incurred by claim it, is subsidiaries, attributes or successions arising out of or related to the performance of kentiles thereunder by Cardinal, regardless of whether such claim is based toget any of the above stated reasons or otherwise.	sere remay no any oaini anang writtere baed in powad or port, salai be infloevere shall be deemed walved unless made in writing and received by Cardio floevere shall be deemed walved unless made in writing and received by Cardio shallons, business interruptions, loss of up.K. oblicos mades, including without limitation, business interruptions, loss of up.K. oblicos in the control of the cardio shall be shallowed any service such claim is based upod any.	und or for, shall be linted to the amount paut by the bents to the and received by Cardinal within 30 days after completion of the a ris, loss of ups, obloss of profits incurred by client, its subsidiaries aim is based upod any of the above stated reasons or otherwise.	so to the amount paid by the Clerk to the all within 30 days after completion of the all fipplifts incurred by client, its subsidiaries if profits incurred by client, its subsidiaries if the above stated reasons or otherwise.	applicable							
H3/	y: Date: 3 8 14	Received By:	Home	Phone Result: Fax Result: REMARKS:	ā	Yes	N N	Add'l Phone #: Add'l Fax #:	e			
Relinguished By:	Lona	Received By:	Henson)								
Delivered By		Sample Condition	dition CHECKED BY:									_
Sampler - UPS	Sampler - UPS - Bus - Other: 4.56	6 B	Yes A									_
			111									1



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

					l	l				
Company Name:	BBC International, Inc.		BILL TO					ANALYSIS RI	REQUEST	
Project Manager:	r: Cliff Brunson		P.O. #:							
Address: P.O.	Box 805		Company: () x y				_			
city: Hobbs	State: NM	/ Zip: 88241	Attn: W. O't	trice			_			
Phone #: 575-397-6388	Fax#:	575-397-0397	Address:		_		_			
Project #:	Project Owner: Oxy	ner: Oxy	City:		_					
Project Name: 1	Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	/19, 1/23/19	State: Zip:				+			
Project Location:	п		Phone #:				X			
Sampler Name:	Jeff Ornelas		Fax #:		_	_	E			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING		EX	4			
Lab I.D. 14900 955	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	CI	BT	TPX			
71	SP10 @ 7'	-	7	9:50 AM	1		-			
77	SP10 @ 8'		3/5/19	10:10 AM	<					
27	SP10 @ 9'		3/5/19	10:20 AM	١					
74	SP11 @ SURFACE		3/5/19	11:11 AM	١	۲	<			
75	SP11 @ 1'		3/5/19	11:20 AM	١	۲	٠			
76	SP11 @ 2'		3/5/19	11:30 AM	<u> </u>	١	<			
77	SP11 @ 3'		3/5/19	11:41 AM	١	<	<			
25	SP12 @ SURFACE		3/5/19	11:49 AM	<	١	<			
N	SP12 @ 1'		3/5/19	12:12 PM	1	۲	۸			
PLEASE NOTE: Liability an	SP12 @ 2' and Damages Cardinal's liability and client's exclusive remedy	edy for any claim arraing whether based in contract or lock shall be lief	3	12:45 PM	1	1	`			1
analyses. All claims. Includin service. In no event shall Co affiliates or successors arisin	e for regigence and any other cause whatsoever s be liable for incidental or consequental damages, i of related to the performance of services hereum	il be deemed waived unless made in writing a uding without limitation, business interruptions by Cardinal, regardless of whether such claim	ind received by Cardinal within 30 days afti s, loss of use, or loss of profits incurred by n is based upen any of the above stated re	nal within 30 days after completion of the ac of profits incurred by client, its subsidiaries of the above stated reasons or otherwise	ppicable					
Relinquished By	PERSONAL SEPTIMENTS	A Received By:	Umo	Phone Result: Fax Result: REMARKS:		□ Yes	N N	Add'l Phone #: Add'l Fax #:		
Relinguished By	Harro	Received By:	Henson)						
Delivered By:	Delivered By: (Circle One)	-	ition CHECKED BY:							
Sampler - UPS	Sampler - UPS - Bus - Other: 4.5% 7497	TYPES TYPES TO NO IN NO	es A		l					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company: Ox U	
City: Hobbs State: NM Zip: 88241	Attn: W. Dittrick	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
		7

	1				l	l			
company Name:	e: BBC International, Inc.		BILL TO					ANALYSIS F	REQUEST
Project Manager:	ar: Cliff Brunson		P.O. #:			4			
Address: P.O.	. Box 805		Company: OK U		_				
city: Hobbs	State: NM	Zip: 88241	Attn: W. D. tt	reg.	_	_			
Phone #: 575-397-6388	Fax#:	575-397-0397	Address:		_	,	_		
Project #:	Project Owner: Oxy	ar. Oxy	City:		_	_	. 7		
Project Name:	Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	9, 1/23/19	State: Zip:		_	_	- 4		
Project Location:	7.		#			Y	F		
Sampler Name:	Jeff Ornelas		Fax #:		_				
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING	_	1	1		
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	T M	<u>C1</u>	BT	TP		
18	SP12 @ 3'	7	\ 3	12:57 PM	`	`	`		
28	SP13 @ SURFACE		3/5/19	1:11 PM	١	`	•		
83	SP13 @ 1'		3/5/19	1:15 PM	<u> </u>	<u> </u>	< _		
128	SP13 @ 2'		3/5/19	1:20 PM	١	<u>`</u>	<u> </u>		
28	SP13 @ 3'		3/5/19	1:30 PM	٠	\ \	`		
86	NORTH @ SURFACE		3/4/19	9:55 AM	<u> </u>	\ \			
57	EAST @ SURFACE		3/4/19	10:15 AM	١	<u>`</u>	<u> </u>		
88	WEST @ SURFACE		3/4/19	10:38 AM	_	`	•		
198	SOUTH @ SURFACE	` C	3/4/19	11:11 AM	_	`			
PLEASE NOTE: Liability and Damages analyses. All claims including those for re- service. In no event shall Cardinal be lia- adiliates or suppossors socion out of or re-	PLEASE NOTE: Liability and Danages. Cardinal's liability and clients exclusive remoty for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatelover shall be deemed warved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal shall be not been consistent or consequental damages, including whold installation, business interruptions, loss of lake, or bos of by other incurred by client, its subsidiaries, affiliation or or subsidiaries in the continuous of the continuous contin	any claim arising whether based in contract or lost, shall be in deemed walved unless made in writing and received by Card gwithoul limitation, business interruptions, loss of use, or loss	of or fort, shall be limited to the amount pa nd received by Cardinal within 30 days arb loss of use, or loss of profits incurred by	int paid by the client for the ys after completion of the a of by client, its subsidiaries.	pplicable				
Relinquished By	Date 3-8-19	Received By:	Alea-	Phone Result: Fax Result: REMARKS:	1.0	□ Yes	□ No	Add'l Phone #: Add'l Fax #:	
Relinquished By		Received By:	tenson						
Delivered By:	(Circle One)		tion CHECKED BY:						
Sampler - UPS	Sampler - UPS - Bus - Other: 4, 50 + 47	77 Byes Byes	o SAL						

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

Page 91 of 91