

**APPROVED****By CHernandez at 1:28 pm, Jan 17, 2019**

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NMOCD approves of the delineation completed for 1RP-4758. The proposed remediation is also approved. Excavate top 4' at SP1 and SP2.

DELINEATION WORKPLAN

OXY – JF JANDA NCT I #011 BATTERY (Leak Date: 8/27/18)

RP # 1RP-5250

This delineation workplan and remediation proposal addresses the releases associated with RP # 1RP-5250.

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 performed some initial response activities right after the release and removed some of the impacted soil from the surface as evidenced in the enclosed pictures. Delineation activities and sample collection was performed after the initial response activities.

OXY will excavate the spill area as depicted on the following site diagram. The leak areas near SP1-SP3 and SP5-SP7 (YELLOW shade on diagram) will be excavated to a depth of 6 inches.

Bottom and sidewall confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 175 cubic yards. The remediation will be completed within 90 days of plan approval.

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5250
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	125' (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

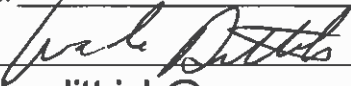
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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	1RP-5250
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 Specialist
Signature:  Date: 10-29-18
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD OnlyReceived by: Date: 1/17/2019

Incident ID	
District RP	1RP-5250
Facility ID	
Application ID	

Remediation Plan

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

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

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: **Wade Dittrich**

Title: **Environmental Specialist**

Signature: 

Date: **10-29-18**

email: **wade_dittrich@oxy.com**

Telephone: **(575) 390-2828**

OCD Only

Received by: **Christina Hernandez**

Date: **1/17/2019**

☒ Approved

☐ Approved with Attached Conditions of Approval

☐ Denied

☐ Deferral Approved

Signature: 

Date: **1/17/2019**




Oxy, JF Janda NCT I #0011 Battery

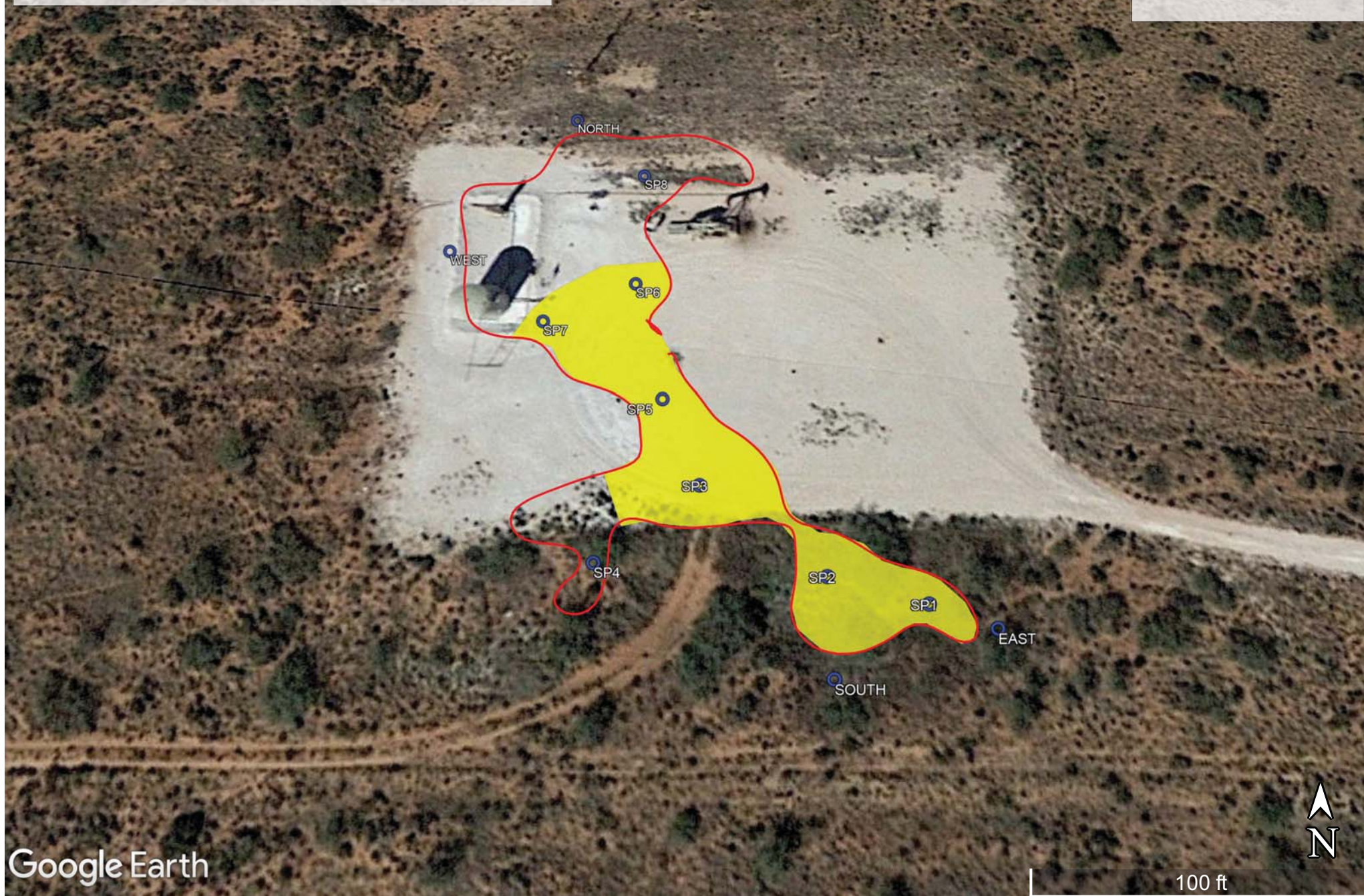
Leak date: 8/27/18

Lea County, NM

API# 30-025-36396, 1RP-5250

Legend

-  6 inch Excavation
-  Leak Area
-  Sample points





New Mexico State Land Office Revegetation and Noxious Weed Management Plan

OXY – JF Janda NCT I #011 Battery

Revegetation Plan

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. If the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

Gamma grass – 40% - 3.0 lbs. PLS

Buffalo grass – 40% - 3.0 lbs. PLS

Side oats – 10% - 1.0% lbs. PLS

Four wing Salt bush – 10% - 3.0 lbs. PLS

Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

Oxy, JF Janda NCT I #011 Battery

Sample points

SP1, N 32.33909 W-103.23478

SP2, N 32.33912 W-103.23489

SP3, N 32.33921 W-103.23502

SP4, N 32.33913 W-103.23513

SP5, N 32.33930 W-103.23506

SP6, N 32.33943 W-103.23510

SP7, N 32.33939 W-103.23520

SP8, N 32.33957 W-103.23509

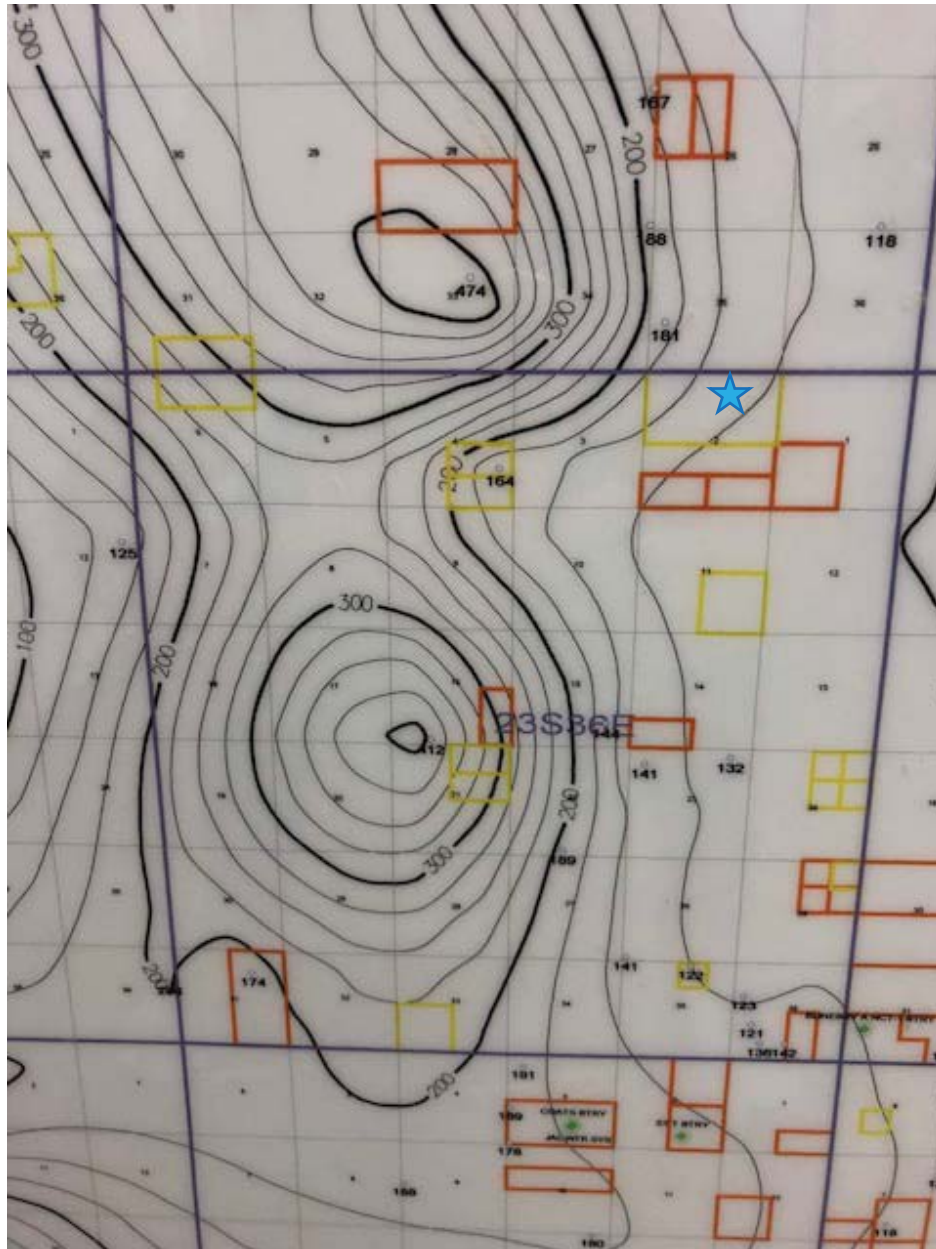
NORTH, N 32.33965 W-103.23517

SOUTH, N 32.33902 W-103.23489

EAST, N 32.33907 W-103.23471

WEST, N 32.33947 W-103.23532

Oxy, JF Janda NCT I #011 Battery
U/L B, Section 2, T23S, R36E
Groundwater: 125'-150'





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

- [Please see news on new formats](#)
- As of 10 a.m. Monday, October 29, approximately 9 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS continues to work on prioritized streamgages, those in geographic areas expected to receive rainfall over the next few days, replacing the component that transmits the data as quickly as possible. The USGS is working hand-in-hand with the manufacturer to find a solution to the transmitter issue.**

The data on the streamgages is being preserved for download and has not been lost. Read [more](#)

- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322032103143101

Minimum number of levels = 1

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

USGS 322032103143101 22S.36E.35.313224

Lea County, New Mexico

Latitude 32°20'46", Longitude 103°14'33" NAD27

Land-surface elevation 3,496.70 feet above NGVD29

The depth of the well is 197 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurment
1953-11-23		D	187.49			2			U	
1965-10-21		D	181.72			2			U	
1968-03-25		D	185.91			2	R		U	
1970-12-01		D	181.09			2			U	
1976-01-21		D	180.97			2			U	
1981-03-12		D	181.00			2			U	
1986-03-19		D	180.95			2			U	
1991-05-02		D	180.65			2			U	
1996-02-15		D	180.81			2			S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
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	A	Approved for publication -- Processing and review completed.

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[Data Tips](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

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



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

Page Last Modified: 2018-10-29 17:36:37 EDT

0.52 0.43 nadww01



Oxy, JF Janda NCT I #011 Battery

Leak date: 8/7/18

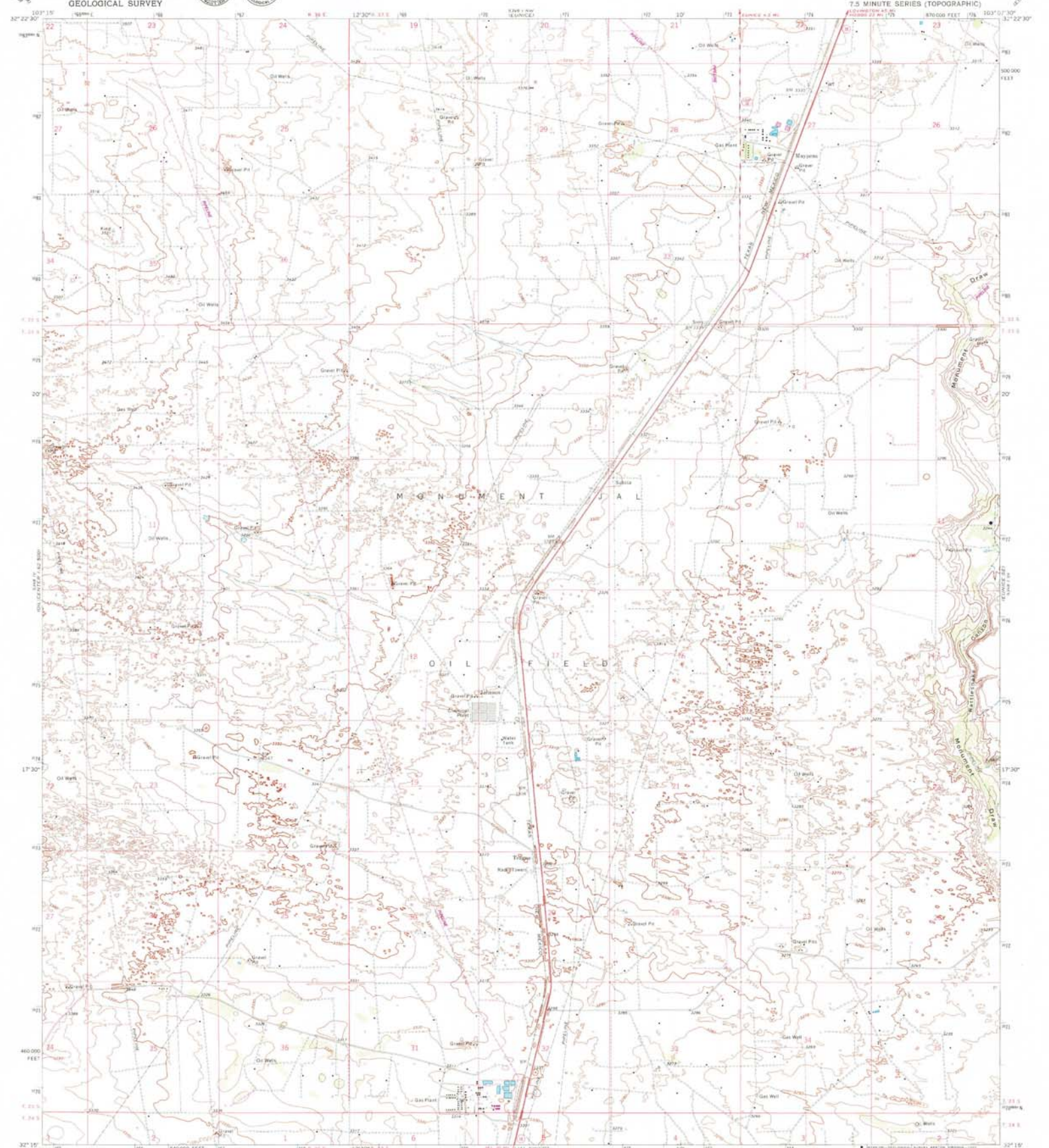
Lea County, NM

API# 30-025-36396, 1RP-5250

Legend

-  Leak Area not within 1000 ft of any water feature
-  Sample points

SP8
SP7 SP3
EAST SOUTH



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial

photographs taken 1968. Field checked 1969

Projections: projection, 1927 North American datum

10,000-foot grid based on New Mexico coordinate system,

east zone

1000-meter Universal Transverse Mercator grid ticks,

zone 13, shown in blue

Fine red dashed lines indicate selected fence lines

Revisions shown in purple compiled from aerial photographs

taken 1977 and other source data. This information not

field checked. Map edited 1979

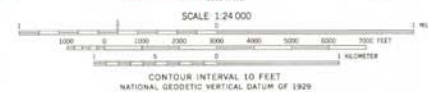
UTM GRID AND 1975 MAGNETIC NORTH

INDICATION AT CORNER OF SHEET

To place on the projected North American Datum 1983

move the projection lines 9 meters south and

44 meters east as shown by dashed corner ticks



ROAD CLASSIFICATION

Primary highway, all weather. Light-duty road, all weather
hard surface. Improved surface
Secondary highway, all weather. Unimproved road, fair or dry
hard surface. weather.

State Route

USGS
Topographic Division
RATTLESNAKE CANYON, N. MEX.

53215-W10307.5/7.5

1969

PHOTOREVISED 1979

DMA 5348 1 GW. SERIES 1981

MAY - 1 1980



2136

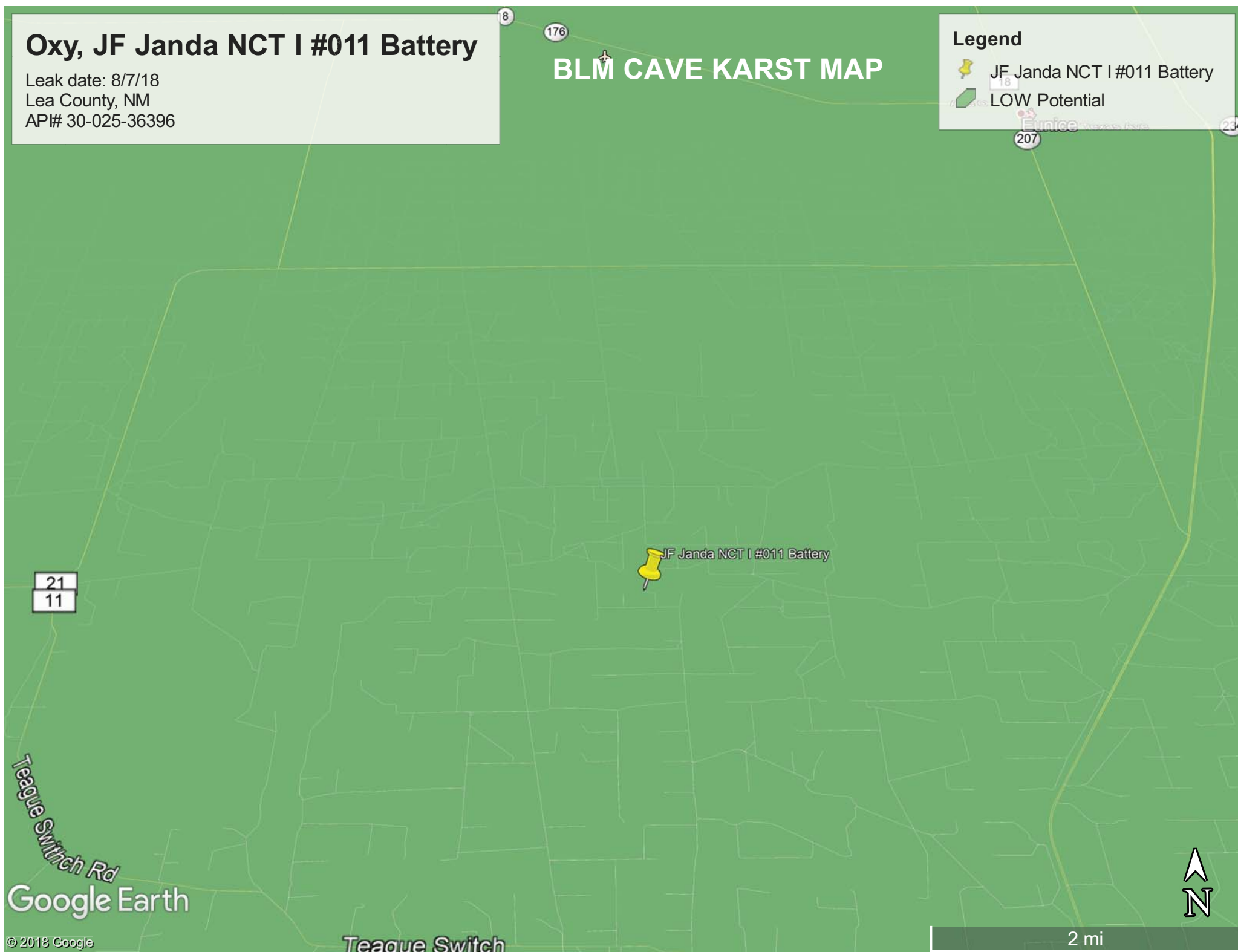
Oxy, JF Janda NCT I #011 Battery

Leak date: 8/7/18
Lea County, NM
AP# 30-025-36396

BLM CAVE KARST MAP

Legend

-  JF Janda NCT I #011 Battery
-  LOW Potential



National Flood Hazard Layer FIRMette



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **9/12/2018 at 1:05:18 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.

32°14'21.47"N



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

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

32°13'51.03"N

103°20'3.08"W



Laboratory Analytical Results Summary
JF Janda NCT I #011 Battery (8/27/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	9/25/18	9/25/18	9/25/18	9/25/18	9/25/18	9/25/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		272	16	864	1220	400	192
GRO	TPH 8015M		<50.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		3280	36.8	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		1410	21.5	<10.0	n/a	n/a	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'
Analyte	Method	Date	9/25/18	9/25/18	9/25/18	9/25/18	9/25/18	9/25/18	9/25/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		64	224	2520	2680	2560	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		1170	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		562	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	9/25/18	9/25/18	9/25/18	9/25/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		9730	224	256	288
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		2670	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		948	<10.0	<10.0	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	9/25/18	9/25/18	9/25/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		16	<16.0	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		11.3	<10.0	n/a

Laboratory Analytical Results Summary
JF Janda NCT I #011 Battery (8/27/18)

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	9/25/18	9/25/18	9/25/18	9/25/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		8130	176	448	448
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		219	<10.0	n/a	n/a
EXT DRO	TPH 8015M		117	<10.0	n/a	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	9/25/18	9/25/18	9/26/18	9/26/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1170	1570	352	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	9/26/18	9/26/18	9/26/18	9/26/18	9/26/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		11300	1600	256	704	400
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		67.3	<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		48.8	<10.0	<10.0	n/a	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	9/26/18	9/26/18	9/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		32	32	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	9/26/18	9/26/18	9/26/18	9/26/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenz	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xyle	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTE	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		176	208	160	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

October 04, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: J.F. JANDA NCT #011

Enclosed are the results of analyses for samples received by the laboratory on 09/27/18 14:30.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H802748-01)

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	10/01/2018	ND	1.74	87.1	2.00	1.11	
Toluene*	<0.050	0.050	10/01/2018	ND	1.89	94.6	2.00	0.143	
Ethylbenzene*	<0.050	0.050	10/01/2018	ND	1.99	99.3	2.00	0.686	
Total Xylenes*	<0.150	0.150	10/01/2018	ND	5.70	95.0	6.00	0.654	
Total BTEX	<0.300	0.300	10/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/02/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/01/2018	ND	189	94.7	200	1.41		
DRO >C10-C28*	3280	50.0	10/01/2018	ND	176	88.0	200	6.08		
EXT DRO >C28-C36	1410	50.0	10/01/2018	ND						

Surrogate: 1-Chlorooctane 75.4 % 41-142

Surrogate: 1-Chlorooctadecane 225 % 37.6-147

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H802748-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2018	ND	1.74	87.1	2.00	1.11	
Toluene*	<0.050	0.050	10/01/2018	ND	1.89	94.6	2.00	0.143	
Ethylbenzene*	<0.050	0.050	10/01/2018	ND	1.99	99.3	2.00	0.686	
Total Xylenes*	<0.150	0.150	10/01/2018	ND	5.70	95.0	6.00	0.654	
Total BTEx	<0.300	0.300	10/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	189	94.7	200	1.41	
DRO >C10-C28*	36.8	10.0	10/01/2018	ND	176	88.0	200	6.08	
EXT DRO >C28-C36	21.5	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Fax To: (575) 397-0397

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H802748-03)

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	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 77.6 % 37.6-147

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Fax To: (575) 397-0397

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 3' (H802748-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	10/02/2018	ND	432	108	400	0.00		

Sample ID: SP 1 @ 4' (H802748-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/02/2018	ND	432	108	400	0.00	

Sample ID: SP 1 @ 5' (H802748-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/02/2018	ND	432	108	400	0.00	

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H802748-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEx	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	1170	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	562	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 136 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H802748-08)

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	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H802748-09)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 77.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 3' (H802748-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	10/02/2018	ND	432	108	400	0.00	

Sample ID: SP 2 @ 4' (H802748-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	10/02/2018	ND	432	108	400	0.00	

Sample ID: SP 2 @ 5' (H802748-12)

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	10/02/2018	ND	432	108	400	0.00		

Sample ID: SP 2 @ 6' (H802748-13)

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	10/02/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H802748-14)

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	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEx	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	2670	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	948	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 136 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H802748-15)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEx	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H802748-16)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 79.0 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 3' (H802748-17)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/02/2018	ND	432	108	400	0.00	

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ SURFACE (H802748-18)

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	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEx	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/02/2018	ND	432	108	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	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	11.3	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 79.3 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 1' (H802748-19)

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	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.1 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/02/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 85.6 % 41-142

Surrogate: 1-Chlorooctadecane 83.0 % 37.6-147

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Fax To: (575) 397-0397

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2' (H802748-20)**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	10/02/2018	ND	416	104	400	3.77	

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Fax To: (575) 397-0397

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H802748-21)

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	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEx	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	219	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	117	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 73.1 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 1' (H802748-22)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.2 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 77.5 % 37.6-147

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Received:	09/27/2018	Sampling Date:	09/25/2018
Reported:	10/04/2018	Sampling Type:	Soil
Project Name:	J.F. JANDA NCT #011	Sampling Condition:	Cool & Intact
Project Number:	08/27/18	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EUNICE		

Sample ID: SP 5 @ 2' (H802748-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	10/02/2018	ND	416	104	400	3.77		

Sample ID: SP 5 @ 3' (H802748-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/02/2018	ND	416	104	400	3.77	

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ SURFACE (H802748-25)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78		
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277		
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02		
Total BTEx	<0.300	0.300	10/03/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.6 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	10/02/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 74.1 % 41-142

Surrogate: 1-Chlorooctadecane 69.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/25/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 1' (H802748-26)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	10/02/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 81.6 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 2' (H802748-27)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 83.8 % 41-142

Surrogate: 1-Chlorooctadecane 80.7 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 3' (H802748-28)

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	10/02/2018	ND	416	104	400	3.77	

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ SURFACE (H802748-29)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEx	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11300	16.0	10/02/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	67.3	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	48.8	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 1' (H802748-30)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 80.4 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 2' (H802748-31)

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	10/03/2018	ND	1.66	83.2	2.00	1.78		
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277		
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02		
Total BTEX	<0.300	0.300	10/03/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 80.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 82.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.2 % 37.6-147

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Fax To: (575) 397-0397

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 3' (H802748-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	10/02/2018	ND	416	104	400	3.77		

Sample ID: SP 7 @ 4' (H802748-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/02/2018	ND	416	104	400	3.77	

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ SURFACE (H802748-34)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78		
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277		
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02		
Total BTEx	<0.300	0.300	10/03/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 75.9 % 37.6-147

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Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ 1' (H802748-35)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTX	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 85.1 % 37.6-147

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Analytical Results For:

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ 2' (H802748-36)**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	10/02/2018	ND	416	104	400	3.77	

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Analytical Results For:

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NORTH (H802748-37)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	1.66	83.2	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.84	92.1	2.00	0.277	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.91	95.5	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.67	94.4	6.00	2.02	
Total BTEx	<0.300	0.300	10/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	191	95.6	200	6.13	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	199	99.3	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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Analytical Results For:

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EAST (H802748-38)

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	10/02/2018	ND	1.74	87.2	2.00	1.91	
Toluene*	<0.050	0.050	10/02/2018	ND	1.92	95.9	2.00	1.57	
Ethylbenzene*	<0.050	0.050	10/02/2018	ND	2.04	102	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/02/2018	ND	5.89	98.2	6.00	1.84	
Total BTEx	<0.300	0.300	10/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/02/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	195	97.6	200	2.68	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	179	89.7	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Analytical Results For:

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WEST (H802748-39)

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	10/02/2018	ND	1.74	87.2	2.00	1.91	
Toluene*	<0.050	0.050	10/02/2018	ND	1.92	95.9	2.00	1.57	
Ethylbenzene*	<0.050	0.050	10/02/2018	ND	2.04	102	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/02/2018	ND	5.89	98.2	6.00	1.84	
Total BTEx	<0.300	0.300	10/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/02/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	195	97.6	200	2.68	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	179	89.7	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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

Received: 09/27/2018
Reported: 10/04/2018
Project Name: J.F. JANDA NCT #011
Project Number: 08/27/18
Project Location: OXY-EUNICE

Sampling Date: 09/26/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SOUTH (H802748-40)

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	10/02/2018	ND	1.74	87.2	2.00	1.91		
Toluene*	<0.050	0.050	10/02/2018	ND	1.92	95.9	2.00	1.57		
Ethylbenzene*	<0.050	0.050	10/02/2018	ND	2.04	102	2.00	1.75		
Total Xylenes*	<0.150	0.150	10/02/2018	ND	5.89	98.2	6.00	1.84		
Total BTEx	<0.300	0.300	10/02/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/02/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2018	ND	195	97.6	200	2.68	
DRO >C10-C28*	<10.0	10.0	10/01/2018	ND	179	89.7	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	10/01/2018	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 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.
- 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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101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: OXY 27 Project Name: V.F. Venzel NCT #11 8/27/0 Project Location: Emery Sampler Name: V.O.				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST																			
FOR LAB USE ONLY																									
Lab I.D. H802748		Sample I.D. Sp10 Suk		GRAB OR COMP. # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME													
1		Sp10 Suk		1								9-25		859		X									
2		1		1										911		X									
3		2		1										915		X									
4		3		1										929		X									
5		4		1										947		X									
6		5		1										1015		X									
7		Sp20 Suk		1										1021		X									
8		1		1										1030		X									
9		2		1										1040		X									
10		3		1										1053		X									

TPH Extended
BTEX
CL

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Relinquished By: [Signature]		Date: 9-27-0		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: [Signature]		Date: 14:30		Received By: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
REMARKS:							

Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 2.4c #97		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) TO	
--	--	---	--	--	--

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Extended</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1-</div> </div>																	
Address: P.O. Box 805				Company:																					
City: Hobbs State: NM Zip: 88241				Attn:																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner: OXY				City:																					
Project Name: JF-Jrnl/2 NCT #11 8-27-18				State: Zip:																					
Project Location:				Phone #:																					
Sampler Name: 10				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING															
						GROUNDWATER																			
						WASTEWATER																			
						SOIL																			
						OIL																			
						SLUDGE																			
						OTHER:																			
						ACID/BASE:																			
						ICE / COOL																			
						OTHER:																			
										DATE		TIME													
H802748		SP2 e 9		G								9-25		1111											
11		5		G										1128											
12		6		G										1146											
13		SP3 e SUR		G										1212											
14		1		G										101											
15		2		G										115											
16		3		G										130											
17		SP4 e SUR		G										151											
18		1		G										201											
19		2		G										211											
20				G																					

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Relinquished By:		Date: 9-27-18		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 14:30						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -2.4e #97				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		TO	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Cliff Brunson				P.O. #:				<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> TPH Extended BTEX CI- </div>																			
Address: P.O. Box 805				Company:																							
City: Hobbs		State: NM Zip: 88241		Attn:																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																							
Project #:		Project Owner: OXY		City:																							
Project Name: TENDZ # 11 8-27-10				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: VO				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
H802748		Sp7e2		G		1						X		9-26		X X X											
31		3		G		1						X				X X X											
32		4		G		1						X				X X X											
33		Sp8e5K		G		1						X				X X X											
34		2		G		1						X				X X X											
35		North		G		1						X				X X X											
36		East		G		1						X				X X X											
37		West		G		1						X				X X X											
38		South		G		1						X				X X X											
39				G		1						X				X X X											
40				G		1						X				X X X											

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Relinquished By: <i>VKQ</i>		Date: 8-27-10		Received By: <i>Isadora Roldan</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 14:30		Time:		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
Time:		Time:		Time:					
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: - 240 #7				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) T.O.			

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