



DELINEATION WORKPLAN

OXY – SUNDANCE FEDERAL A CTB (Leak Date: 02/14/18)

RP # 2RP-4622

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-4622.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

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

OXY will excavate the spill areas as depicted on the following site diagram. The leak area near SP1-4, SP6, and SP8 (green shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP5 and SP7 (pink shade on diagram) will be excavated to a depth of 4 feet.

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.

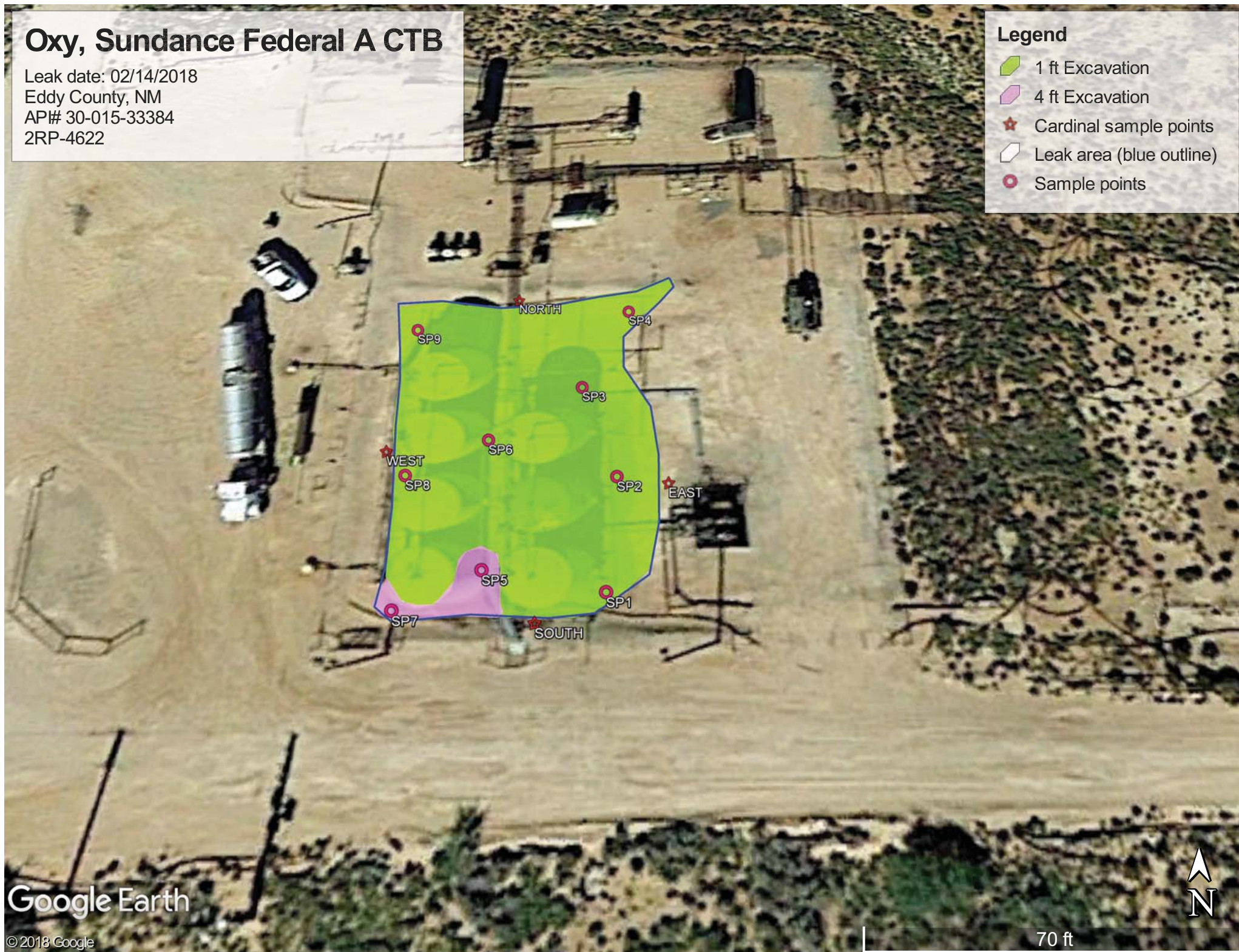
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Oxy, Sundance Federal A CTB

Leak date: 02/14/2018
Eddy County, NM
API# 30-015-33384
2RP-4622

Legend

- 1 ft Excavation
- 4 ft Excavation
- Cardinal sample points
- Leak area (blue outline)
- Sample points



Oxy, Sundance Federal A CTB

Samples, hand auger

SP1, N 32.24786 W-103.79067

SP2, N 32.24794 W-103.79066

SP3, N 32.24802 W-103.79069

SP4, N 32.24808 W-103.79065

SP5, N 32.24787 W-103.79076

SP6, N 32.24797 W-103.79076

SP7, N 32.24784 W-103.79082

SP8, N 32.24794 W-103.79082

SP9, N 32.24807 W-103.79082

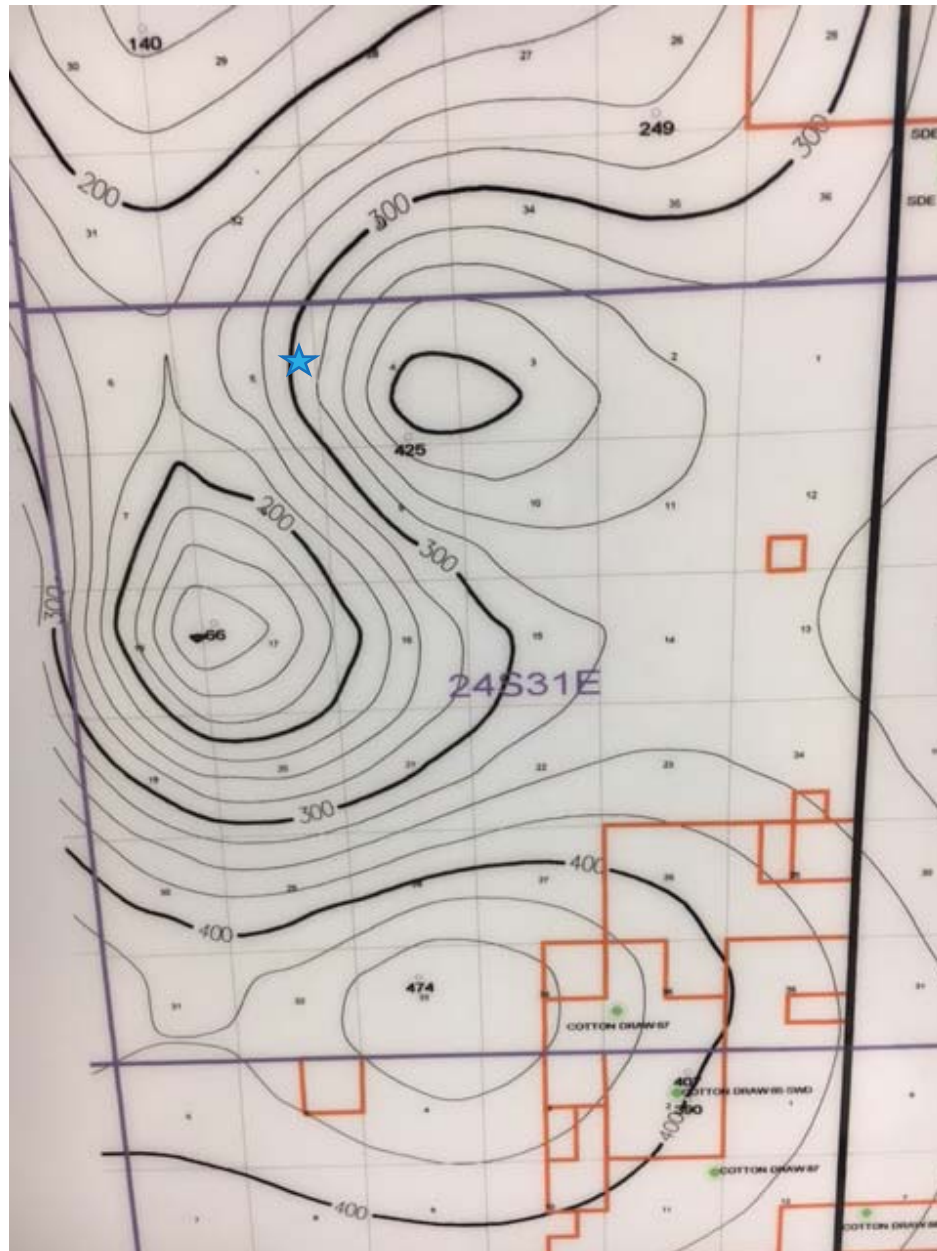
NORTH, N 32.24810 W-103.79074

SOUTH, N 32.24784 W-103.79072

EAST, N 32.24794 W-103.79062

WEST, N 32.24796 W-103.79083

Oxy, Sundance Federal A CTB
U/L H, Section 5, T24S, R31E
Groundwater: 300'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 02783		CUB	ED	3	3	1	04	24S	31E	613911	3568461	270	708		
C 02783 POD2		C	ED	3	3	1	04	24S	31E	613911	3568461	270	672		
C 02784		C	ED	4	2	4	04	24S	31E	613911	3568461	270	584		
C 02661			ED	3	3	1	04	24S	31E	613969	3568485*	315	708		
C 02785			ED	3	3	1	04	24S	31E	613969	3568485*	315	692		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 5

UTM NAD83 Radius Search (in meters):

Easting (X): 613668

Northing (Y): 3568581

Radius: 1700

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/1/18 8:59 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

☒ Q64: Q16: SE Q4: NE Sec: 05 Tws: 24S Rng: 31E

State Plane Coordinate System - NAD27

☐ X: 0 ft Y: 0 ft Zone:

State Plane Coordinate System - NAD83

☐ X: 0 ft Y: 0 ft Zone:

Degrees/Minutes/Seconds

☐ Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

UTM - NAD27

☐ Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:

SUBMIT**All Conversion Results are displayed as NAD 1983 UTM Zone 13**Easting (X): 613668.0 mtrsNorthing (Y): 3568581.0 mtrs**~~ Please keep screen open to copy UTM values for Reports. ~~**

Laboratory Analytical Results Summary
Sundance Federal A CTB

		Sample ID	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 10'
Analyte	Method	Date	3/9/18	3/9/18	3/9/18	3/9/18	3/9/18	3/9/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.306	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.306	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		528	272	240	240	176	192
GRO	TPH 8015M		24.9	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		954	53.9	127	38.9	25.5	<10.0
EXT DRO	TPH 8015M		164	<10.0	10.8	<10.0	<10.0	<10.0

		Sample ID	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 10'
Analyte	Method	Date	3/9/18	3/9/18	3/9/18	3/9/18	3/9/18	3/9/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.268	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		592	320	192	256	208	176
GRO	TPH 8015M		20.1	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		828	95.3	62.1	53	<10.0	<10.0
EXT DRO	TPH 8015M		199	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 9'
Analyte	Method	Date	3/9/18	3/9/18	3/9/18	3/9/18	3/9/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.776	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.66	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		8.74	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		12.2	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	16	32	176	<16.0
GRO	TPH 8015M		595	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		9360	276	263	<10.0	17
EXT DRO	TPH 8015M		1050	37.2	57.1	<10.0	<10.0

		Sample ID	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 9'
Analyte	Method	Date	3/9/18	3/9/18	3/9/18	3/9/18	3/9/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.396	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.35	<0.050	0.088	<0.050	<0.050
Total Xylenes	BTEX 8021B		6.93	<0.150	0.282	<0.150	<0.150
Total BTEX	BTEX 8021B		9.68	<0.300	0.369	<0.300	<0.300
Chloride	SM4500Cl-B		48	16	32	176	64
GRO	TPH 8015M		395	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		6890	169	182	12.4	21.6
EXT DRO	TPH 8015M		1410	51.9	38.6	<10.0	<10.0

		Sample ID	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 10'
Analyte	Method	Date	3/9/18	3/9/18	3/9/18	3/9/18	3/9/18	3/12/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.198	0.062	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.438	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.636	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		5680	4880	1840	800	192	16
GRO	TPH 8015M		36.6	14.8	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1250	567	13.7	101	<10.0	<10.0
EXT DRO	TPH 8015M		265	86.2	<10.0	15.9	<10.0	<10.0

		Sample ID	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 10'
Analyte	Method	Date	3/12/18	3/12/18	3/12/18	3/12/18	3/12/18	3/12/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.384	0.148	0.267	0.146	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.447	0.263	0.329	0.292	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.44	0.879	1.1	0.936	<0.150	<0.150
Total BTEX	BTEX 8021B		2.27	1.29	1.7	1.37	<0.300	<0.300
Chloride	SM4500Cl-B		8930	368	368	400	16	16
GRO	TPH 8015M		54.4	11.3	15.5	19.6	<10.0	<10.0
DRO	TPH 8015M		1230	203	304	298	<10.0	<10.0
EXT DRO	TPH 8015M		346	52.7	68.7	49.2	<10.0	<10.0

		Sample ID	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'	SP7 @ 10'
Analyte	Method	Date	3/12/18	3/12/18	3/12/18	3/12/18	3/12/18	3/12/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.287	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.258	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.939	0.175	0.163	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.48	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		6640	5680	4960	672	16	<16.0
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		998	291	180	98.3	<10.0	<10.0
EXT DRO	TPH 8015M		381	73.1	55.9	14.7	<10.0	<10.0

		Sample ID	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 5'	SP8 @ 10'
Analyte	Method	Date	3/12/18	3/12/18	3/12/18	3/12/18	3/12/18	3/12/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.1	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.461	<0.150	0.175	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.561	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		416	384	320	656	16	<16.0
GRO	TPH 8015M		12.8	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		335	125	136	75.4	<10.0	<10.0
EXT DRO	TPH 8015M		60.6	16.6	20.4	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
Sundance Federal A CTB

		Sample ID	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'	SP9 @ 5'	SP9 @ 6'	SP9 @ 11'
Analyte	Method	Date	3/13/18	3/13/18	3/13/18	3/13/18	3/13/18	3/13/18	3/13/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.075	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.58	0.345	0.548	0.411	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.46	0.414	0.719	0.378	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		4.98	1.47	2.63	1.43	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		8.1	2.23	3.9	2.22	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		656	672	512	144	160	<16.0	<16.0
GRO	TPH 8015M		157	60.5	80	135	<10.0	<10.0	<10.0
DRO	TPH 8015M		858	866	772	1500	38.9	<10.0	<10.0
EXT DRO	TPH 8015M		152	164	158	224	<10.0	<10.0	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	3/13/18	3/13/18	3/13/18	3/13/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

March 21, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE FED A - CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/16/18 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 1 @ 1 (H800770-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2018	ND	1.81	90.4	2.00	1.39	
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122	
Total Xylenes*	0.306	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474	
Total BTX	0.306	0.300	03/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/19/2018	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*	24.9	10.0	03/20/2018	ND	232	116	200	2.70	
DRO >C10-C28*	954	10.0	03/20/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	164	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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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:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 1 @ 2 (H800770-02)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTEX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 72-148

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	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	53.9	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147

Cardinal Laboratories

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Analytical Results For:

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

Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 1 @ 3 (H800770-03)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	127	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	10.8	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 4 (H800770-04)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTEx	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	38.9	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 1 @ 5 (H800770-05)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTEx	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 72-148

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	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	25.5	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 76.9 % 37.6-147

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Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 10 (H800770-06)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTEx	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 72-148

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	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	<10.0	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 86.7 % 41-142

Surrogate: 1-Chlorooctadecane 76.8 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 1 (H800770-07)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	0.268	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTEX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/19/2018	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*	20.1	10.0	03/20/2018	ND	232	116	200	2.70	
DRO >C10-C28*	828	10.0	03/20/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	199	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 84.2 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 2 (H800770-08)

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	03/17/2018	ND	1.81	90.4	2.00	1.39	
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122	
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474	
Total BTX	<0.300	0.300	03/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	95.3	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 3 (H800770-09)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTEX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 72-148

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	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	62.1	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 79.2 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 4 (H800770-10)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	53.0	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 84.8 % 41-142

Surrogate: 1-Chlorooctadecane 78.6 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 5 (H800770-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTEX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	<10.0	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 74.0 % 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:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 2 @ 10 (H800770-12)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 72-148

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	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	<10.0	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 75.0 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ 1 (H800770-13)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/17/2018	ND	1.81	90.4	2.00	1.39	
Toluene*	0.776	0.100	03/17/2018	ND	1.85	92.7	2.00	1.26	
Ethylbenzene*	2.66	0.100	03/17/2018	ND	1.87	93.3	2.00	0.122	
Total Xylenes*	8.74	0.300	03/17/2018	ND	5.67	94.5	6.00	0.474	
Total BTEx	12.2	0.600	03/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 72-148

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	03/19/2018	ND	416	104	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*	595	50.0	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	9360	50.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	1050	50.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 130 % 41-142

Surrogate: 1-Chlorooctadecane 157 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ 2 (H800770-14)

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	03/17/2018	ND	1.81	90.4	2.00	1.39		
Toluene*	<0.050	0.050	03/17/2018	ND	1.85	92.7	2.00	1.26		
Ethylbenzene*	<0.050	0.050	03/17/2018	ND	1.87	93.3	2.00	0.122		
Total Xylenes*	<0.150	0.150	03/17/2018	ND	5.67	94.5	6.00	0.474		
Total BTX	<0.300	0.300	03/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 72-148

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	03/19/2018	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	03/19/2018	ND	232	116	200	2.70	
DRO >C10-C28*	276	10.0	03/19/2018	ND	208	104	200	4.17	
EXT DRO >C28-C36	37.2	10.0	03/19/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ 3 (H800770-15)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

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	03/19/2018	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	03/20/2018	ND	208	104	200	4.03	
DRO >C10-C28*	263	10.0	03/20/2018	ND	224	112	200	4.36	
EXT DRO >C28-C36	57.1	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ 4 (H800770-16)

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	03/20/2018	ND	1.91	95.4	2.00	1.63		
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05		
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00		
Total BTEx	<0.300	0.300	03/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

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	03/19/2018	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	03/20/2018	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	224	112	200	4.36	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.1 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 3 @ 9 (H800770-17)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

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	03/19/2018	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	03/20/2018	ND	208	104	200	4.03	
DRO >C10-C28*	17.0	10.0	03/20/2018	ND	224	112	200	4.36	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.5 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ 1 (H800770-18)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	0.396	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	2.35	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	6.93	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	9.68	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

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	03/19/2018	ND	416	104	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*	395	50.0	03/20/2018	ND	208	104	200	4.03		
DRO >C10-C28*	6890	50.0	03/20/2018	ND	224	112	200	4.36		
EXT DRO >C28-C36	1410	50.0	03/20/2018	ND						

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 151 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ 2 (H800770-19)

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	03/20/2018	ND	1.91	95.4	2.00	1.63		
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05		
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00		
Total BTX	<0.300	0.300	03/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

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	03/19/2018	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	03/20/2018	ND	208	104	200	4.03		
DRO >C10-C28*	169	10.0	03/20/2018	ND	224	112	200	4.36		
EXT DRO >C28-C36	51.9	10.0	03/20/2018	ND						

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ 3 (H800770-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	0.088	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	0.282	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTEX	0.369	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 72-148

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	03/19/2018	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	03/20/2018	ND	208	104	200	4.03	
DRO >C10-C28*	182	10.0	03/20/2018	ND	224	112	200	4.36	
EXT DRO >C28-C36	38.6	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 89.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.8 % 37.6-147

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Analytical Results For:

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

Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ 4 (H800770-21)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

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	03/19/2018	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	03/20/2018	ND	208	104	200	4.03	
DRO >C10-C28*	12.4	10.0	03/20/2018	ND	224	112	200	4.36	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 92.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 4 @ 9 (H800770-22)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

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	03/19/2018	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	03/20/2018	ND	208	104	200	4.03	
DRO >C10-C28*	21.6	10.0	03/20/2018	ND	224	112	200	4.36	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ 1 (H800770-23)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	0.198	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	0.438	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	0.636	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	03/19/2018	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*	36.6	10.0	03/20/2018	ND	208	104	200	4.03	
DRO >C10-C28*	1250	10.0	03/20/2018	ND	224	112	200	4.36	
EXT DRO >C28-C36	265	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ 2 (H800770-24)

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	03/20/2018	ND	1.91	95.4	2.00	1.63		
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05		
Ethylbenzene*	0.062	0.050	03/20/2018	ND	2.12	106	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00		
Total BTX	<0.300	0.300	03/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	03/19/2018	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*	14.8	10.0	03/20/2018	ND	187	93.5	200	5.02		
DRO >C10-C28*	567	10.0	03/20/2018	ND	190	95.2	200	8.30		
EXT DRO >C28-C36	86.2	10.0	03/20/2018	ND						

Surrogate: 1-Chlorooctane 81.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.4 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ 3 (H800770-25)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	03/19/2018	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	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	13.7	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 77.7 % 41-142

Surrogate: 1-Chlorooctadecane 75.6 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/09/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 4 (H800770-26)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/19/2018	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	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	101	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	15.9	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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Fax To: (575) 397-0397

Received:	03/16/2018	Sampling Date:	03/09/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ 5 (H800770-27)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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	03/19/2018	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	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 5 @ 10 (H800770-28)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

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	03/19/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 6 @ 1 (H800770-29)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	0.384	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	0.447	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	1.44	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTEX	2.27	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	03/19/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	54.4	50.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	1230	50.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	346	50.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 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:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 6 @ 2 (H800770-30)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	0.148	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	0.263	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	0.879	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	1.29	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/19/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.3	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	203	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	52.7	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 6 @ 3 (H800770-31)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	0.267	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	0.329	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	1.10	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	1.70	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/19/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.5	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	304	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	68.7	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 4 (H800770-32)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	0.146	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	0.292	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	0.936	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTX	1.37	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 72-148

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/19/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.6	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	298	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	49.2	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 5 (H800770-33)

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	03/20/2018	ND	1.91	95.4	2.00	1.63		
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05		
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00		
Total BTX	<0.300	0.300	03/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

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	03/21/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 37.6-147

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Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 10 (H800770-34)

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	03/20/2018	ND	1.91	95.4	2.00	1.63	
Toluene*	<0.050	0.050	03/20/2018	ND	2.08	104	2.00	2.05	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.12	106	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.28	105	6.00	3.00	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 72-148

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	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 1 (H800770-35)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	0.287	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	0.258	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	0.939	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTX	1.48	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	998	50.0	03/20/2018	ND	190	95.2	200	8.30	QM-07
EXT DRO >C28-C36	381	50.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Fax To: (575) 397-0397

Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 2 (H800770-36)

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	03/20/2018	ND	2.01	101	2.00	1.16		
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78		
Total Xylenes*	0.175	0.150	03/20/2018	ND	6.69	112	6.00	1.64		
Total BTEX	<0.300	0.300	03/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	03/21/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	291	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	73.1	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 7 @ 3 (H800770-37)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	0.163	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	03/21/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	180	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	55.9	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.0 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 7 @ 4 (H800770-38)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	98.3	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	14.7	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 78.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 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:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 7 @ 5 (H800770-39)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEx	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 72-148

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	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 78.7 % 37.6-147

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Fax To: (575) 397-0397

Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 7 @ 10 (H800770-40)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 72-148

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	03/21/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 8 @ 1 (H800770-41)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	0.100	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	0.461	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEx	0.561	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.8	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	335	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	60.6	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 8 @ 2 (H800770-42)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	125	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	16.6	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 8 @ 3 (H800770-43)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	0.175	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	187	93.5	200	5.02	
DRO >C10-C28*	136	10.0	03/20/2018	ND	190	95.2	200	8.30	
EXT DRO >C28-C36	20.4	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Fax To: (575) 397-0397

Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 8 @ 4 (H800770-44)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	201	101	200	1.58	
DRO >C10-C28*	75.4	10.0	03/20/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 8 @ 5 (H800770-45)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 72-148

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	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/12/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 8 @ 10 (H800770-46)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEx	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 72-148

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	03/21/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/20/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 95.9 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 9 @ 1 (H800770-47)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.075	0.050	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	1.58	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	1.46	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	4.98	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTX	8.10	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/21/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	157	50.0	03/20/2018	ND	201	101	200	1.58	
DRO >C10-C28*	858	50.0	03/20/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	152	50.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

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

Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 9 @ 2 (H800770-48)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	0.345	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	0.414	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	1.47	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	2.23	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	03/21/2018	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*	60.5	50.0	03/20/2018	ND	201	101	200	1.58	
DRO >C10-C28*	866	50.0	03/20/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	164	50.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 9 @ 3 (H800770-49)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	0.548	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	0.719	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	2.63	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTX	3.90	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/21/2018	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*	80.0	50.0	03/20/2018	ND	201	101	200	1.58	
DRO >C10-C28*	772	50.0	03/20/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	158	50.0	03/20/2018	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 9 @ 4 (H800770-50)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	0.411	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	0.378	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	1.43	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	2.22	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/21/2018	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*	135	50.0	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	1500	50.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	224	50.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 9 @ 5 (H800770-51)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 72-148

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	03/21/2018	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	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	38.9	10.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 9 @ 6 (H800770-52)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEX	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 72-148

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	03/21/2018	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	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SP 9 @ 11 (H800770-53)

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	03/20/2018	ND	2.01	101	2.00	1.16		
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78		
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64		
Total BTEX	<0.300	0.300	03/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 72-148

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	03/21/2018	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	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 92.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: NORTH @ SURFACE (H800770-54)

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	03/20/2018	ND	2.01	101	2.00	1.16	
Toluene*	<0.050	0.050	03/20/2018	ND	2.15	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	03/20/2018	ND	2.18	109	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/20/2018	ND	6.69	112	6.00	1.64	
Total BTEx	<0.300	0.300	03/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 72-148

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	03/21/2018	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	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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Received:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: EAST @ SURFACE (H800770-55)

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	03/19/2018	ND	1.89	94.7	2.00	1.11		
Toluene*	<0.050	0.050	03/19/2018	ND	1.97	98.7	2.00	0.244		
Ethylbenzene*	<0.050	0.050	03/19/2018	ND	1.98	98.8	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/19/2018	ND	6.09	102	6.00	1.14		
Total BTEx	<0.300	0.300	03/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 72-148

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	03/21/2018	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	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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

Received: 03/16/2018
Reported: 03/21/2018
Project Name: SUNDANCE FED A - CTB
Project Number: NONE GIVEN
Project Location: OXY - PURE GOLD ROAD

Sampling Date: 03/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WEST @ SURFACE (H800770-56)

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	03/19/2018	ND	1.89	94.7	2.00	1.11	
Toluene*	<0.050	0.050	03/19/2018	ND	1.97	98.7	2.00	0.244	
Ethylbenzene*	<0.050	0.050	03/19/2018	ND	1.98	98.8	2.00	1.07	
Total Xylenes*	<0.150	0.150	03/19/2018	ND	6.09	102	6.00	1.14	
Total BTX	<0.300	0.300	03/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 72-148

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	03/21/2018	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	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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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:	03/16/2018	Sampling Date:	03/13/2018
Reported:	03/21/2018	Sampling Type:	Soil
Project Name:	SUNDANCE FED A - CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - PURE GOLD ROAD		

Sample ID: SOUTH @ SURFACE (H800770-57)

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	03/19/2018	ND	1.89	94.7	2.00	1.11		
Toluene*	<0.050	0.050	03/19/2018	ND	1.97	98.7	2.00	0.244		
Ethylbenzene*	<0.050	0.050	03/19/2018	ND	1.98	98.8	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/19/2018	ND	6.09	102	6.00	1.14		
Total BTEX	<0.300	0.300	03/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 72-148

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	03/21/2018	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	03/21/2018	ND	201	101	200	1.58	
DRO >C10-C28*	<10.0	10.0	03/21/2018	ND	215	107	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/21/2018	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs		Attn:													
State: NIM Zip: 88241		Address:													
Phone #: 575-397-6388		City:													
Fax #: 575-397-0397		State:													
Project #: <i>Indyance-A Federal CTB</i>		Zip:													
Project Location: <i>Pure Gold Rd</i>		Phone #:													
Sample Name: <i>VIO</i>		Fax #:													
FOR LAB USE ONLY		PRESERV.		SAMPLING											
Lab I.D.		Sample I.D.													
<i>H802710</i>		<i>SP1E1</i>													
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ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/6

Company Name: BBC International, Inc.

BILL TO

ANALYSIS REQUEST

Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company:

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Attn:

Project #:

Project Owner: Dxy

City:

Project Name:

Sundana Fed CTB

State:

Project Location:

Are Colored

Phone #:

Sampler Name:

1/0

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H800 MD

SP205

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/6

Company Name: BBC International, Inc.

BILL TO

ANALYSIS REQUEST

Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company:

City: Hobbs

State: NM Zip: 88241

Attn:

Phone #: 575-397-6388

Fax #: 575-397-0397

Address:

Project #:

Project Owner: OXY

City:

Project Name: *Surface & Fed CTS*

State: Zip:

Project Location: *Fire Gold*

Phone #:

Sampler Name: *VC*

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H800770

SP4094

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

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Relinquished By: *VC*

Date: *3/16/10*

Received By: *William Williams*

Relinquished By: *VC*

Date: *3/16/10*

Received By: *William Williams*

Relinquished By: *VC*

Date: *3/16/10*

Received By: *William Williams*

Relinquished By: *VC*

Date: *3/16/10*

Received By: *William Williams*

Delivered By: (Circle One) *-1.3C*

Sample Condition

CHECKED BY: *VC*

Sampler - UPS - Bus - Other: *Corrected -1.3C*

Cool Intact

Phone Result: *VC*

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

ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST					
Project Manager: Cliff Brunson				P.O. #:									
Address: P.O. Box 805				Company:									
City: Hobbs				Attn:									
State: NM Zip: 88241				Address:									
Phone #: 575-397-6388 Fax #: 575-397-0397				City:									
Project #:				State:									
Project Name: <i>Superior 4 Fed CTS</i>				Zip:									
Project Location: <i>Pine Gold</i>				Phone #:									
Sample Name: <i>10</i>				Fax #:									
FOR LAB USE ONLY													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING	
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :					
								ACID/BASE: ICE / COOL OTHER :					
										DATE		TIME	
<i>AK00770</i>		<i>SP603</i>		<i>1</i>		<i>1</i>		<i>X</i>		<i>3-12</i>		<i>9:30</i>	
<i>31</i>		<i>4</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>32</i>		<i>5</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>33</i>		<i>10</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>34</i>		<i>2</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>35</i>		<i>SP701</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>36</i>		<i>2</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>37</i>		<i>3</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>38</i>		<i>4</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>39</i>		<i>5</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	
<i>40</i>		<i>10</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>	

PLEASE NOTE: Liability and Damages. Cardholder's liability and client's exclusive remedy for any claim arising from this 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 completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *3-15-10* **Received By:** *Marina Delaney*

Time: *8:30* **Date:** *3-15-10*

Relinquished By: *10/15/05* **Received By:** *10/15/05*

Time: *10:30* **Date:** *10/15/05*

Delivered By: (Circle One) *-1.32* **Sample Condition:** Cool ☒ Intact ☐ Yes ☐ No

Sampler - UPS - Bus - Other: *UPS* **CHECKED BY:** (Initials) *MS*

REMARKS: *TPH Extended BTEX LT*

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



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5/6

Company Name: BCC International, Inc.

BILL TO

ANALYSIS REQUEST

Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company:

City: Hobbs

State: NM Zip: 88241

Attn:

Phone #: 575-397-6388

Fax #: 575-397-0397

Address:

Project #:

Project Owner: Oxy

City:

Project Name:

Suppance 4 Fed CTR

State:

Project Location:

Area 6010

Zip:

Sample Name:

W3

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH Extended

BTEX

CI

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

3/16/18

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

3/16/18

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

-1.35

Sample Condition

Cool

Intact

Yes

No

CHECKED BY:

(Initials)

3/16/18

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

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

ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P.O. Box 805		Attn:					
City: Hobbs		Address:					
Phone #: 575-397-6388		City:					
State: NM Zip: 88241		State:					
Fax #: 575-397-0397		Zip:					
Project #: <u> </u>		Phone #:					
Project Name: <u>Synopsis 4th CTB</u>		Fax #:					
Project Location: <u>Fire Cold</u>							
Sample Name: <u>10</u>							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV	SAMPLING
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :
		ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	
4800710	SP 905	G 1	1		3-13	933	X
51	6	G 1	X			945	X
52	11	G 1	X			1033	X
53	Northwood	G 1	X			1111	X
54	East	G 1	X			1130	X
55	South	G 1	X			1150	X
56		G 1	X			1111	X
57		G 1	X				X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract shall be limited to the amount paid by the client for the service. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or from the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquished By: Date: 3-15-10 Received By:

Time: 8:30 Date: Received By:

Delivered By: (Circle One) -1.3c Sample Condition: Cool ☒ Intact ☒ Yes ☐ No ☐ No ☐ No ☐ No

REMARKS: TPH Extended BTEX CI-

Also some head space

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

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 15 2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

RECEIVED
Submit copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

7 AB 1805028326

Name of Company <u>OXY USA INC</u>		Contact <u>WADE DITTRICH</u>
Address <u>PO BOX 4294; HOUSTON, TX 77210</u>		Telephone No. <u>575-390-2828</u>
Facility Name <u>SUNDANCE FEDERAL A CTB</u>		Facility Type <u>CTB</u>
Surface Owner <u>BLM</u>	Mineral Owner <u>BLM</u>	API No. <u>30-015-33384</u>

OPERATOR

☒ Initial Report ☐ Final Report

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	4	24S	31E					EDDY

Latitude 32.247954 Longitude -103.790760 (Leak GPS) NAD83

NATURE OF RELEASE

Type of Release <u>OIL & PRODUCED WATER</u>	Volume of Release <u>5 bbls OIL</u> <u>7 bbls PRODUCED WATER</u>	Volume Recovered <u>3 BBLS</u>
Source of Release <u>Water Tank spilled over due to high levels when ESD valve failed</u>	Date and Hour of Occurrence <u>02/14/2018</u>	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM</u>	
By Whom? <u>WADE DITTRICH</u>	Date and Hour <u>02/14/2018 @ 4:46 PM</u> <u>3:41pm *e-mail</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Leak was caused by water tank spilled over due to high levels when ESD valve failed. Issue was corrected and returned to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area is 36x45 ft, 6x6 ft, 10x10 ft (measurements are subject to change with GPS tracking). Remediation will completed in accordance with the remediation plan approved by the NMOCD and the BLM.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <u>Waide Ditttrich</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>WADE DITTRICH</u>	Signed By: <u>Mike Bratcher</u> Approved by Environmental Specialist:	
Title: <u>ENVIROMENTAL SPECIALIST</u>	Approval Date: <u>2/16/18</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>wade_ditttrich@oxy.com</u>	Conditions of Approval: <u>See attached</u>	Attached <u>Rep. 4622</u>
Date: <u>2-15-18</u> Phone: <u>575-390-2828</u>		

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/15/2015 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4022 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 3/15/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Wade_Dittrich@oxy.com
Sent: Thursday, February 15, 2018 1:30 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov
Cc: Jennifer_Smith@oxy.com; kswinney@bbcinternational.com;
kathy@bbcinternational.com; Jennifer_Smith@oxy.com;
cbrunson@bbcinternational.com
Subject: Sundance Federal A CTB
Attachments: Signed-Initial C141.pdf

All,

Attached is the **Initial C141**. Please review and let me know if there are any questions. Thank you.

Wade Dittrich
Environmental Specialist
Oxy Permian-New Mexico
575-390-2828 cell
575-397-8214 office
Wade_Dittrich@Oxy.com

Bratcher, Mike, EMNRD

From: Wade_Dittrich@oxy.com
Sent: Wednesday, February 14, 2018 3:46 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc: Jennifer_Smith@oxy.com; cbrunson@bbcinternational.com;
kswinney@bbcinternational.com; kathy@bbcinternational.com;
jgilkey@bbcinternational.com
Subject: Sundance Federal A CTB

All,

This is to inform you that Oxy Permian had a **Reportable** release in **Eddy County** at the **Sundance Federal A CTB** on **2/14/2018**.

- **Release Location:** Legal -4-24S-31E, API: 30-015-33384-closest well-400' to the east
- **Release Volume:** 5 bbls of Oil and 7 bbls of Produced Water.
- **Recovered:** 3 bbls recovered
- **Cause of Release:** Water Tank spilled over due to high levels when ESD valve failed
- **Approximate Area impacted by release:** 36x45 ft, 6x6 ft, 10x10 ft (measurements are subject to change with GPS tracking)
- **GPS Coordinates and Driving Direction:** **32.247954, -103.790760-(Leak GPS)** START FROM CARLSBAD NM TO HWY 285 SOUTH GO 9 MI THEN TURN N HWY 31 GO 7 MI TURN EAST ON HWY 128 GO 14 MI TURN SOUTH ON PURE GOLD RD GO 2.5 MI TURN LEFT INTO BATTERY
- Please let me know if you have any questions.

Wade Dittrich

Environmental Specialist

Oxy Permian-New Mexico

575-390-2828 cell

575-397-8214 office

Wade_Dittrich@Oxy.com