

Closure Report

ID # nAPP2103556268 ,nAPP2202749506

Site Description

Site Name:	SUNDANCE 4-32 SWD
Company:	Oxy USA, Inc.
Legal Description:	U/L D, Section 4, T24S, R31E
County:	Eddy County, NM
GPS Coordinates:	N.32.251612 ,W-103.79012

Release Data

Date of Release:	1/20/2021 , 1/20/2022		
Type of Release:	Crude Oil /Produced water ,1" VALVE LEFT OPEN ON TRANSFER PUMP		
Source of Release:	AUTOMATION		
Volume of Release:	CRUDE OIL 1 BBLS	WATER 59 BBLS	,WATER 27 BBLS
Volume Recovered:	CRUDE OIL 0 BBLS	WATER 40BBLS	, WATER 25 BBLS

Remediation Specifications

Remediation Parameters:	OXY excavated the spill area as depicted on the following site diagram. The leak area near SP1 (PURPLE shade on diagram) was excavated to a depth of 3 feet. The leak area near SP2 – SP8, SP10 – SP12 and SP14 (YELLOW shade on diagram) was excavated to a depth of 1 foot. The leak area near SP9 (BLUE shade on diagram) was excavated to a depth of 4 feet. The leak area near SP13 (GREEN shade on diagram) was excavated to a depth of 2 feet. Bottom and sidewall confirmation samples was collected at no greater than 200 square ft. intervals.
Remediation Activities:	1/4/24 - 4/8/24

Plan Sent to OCD:	4/5/2021	
OCD Approval of Plan:	7/22/2021	
Plan Sent to BLM:		
BLM Approval of Plan:		

Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Remediation photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for	
Sampling Notification	3/12/2024	

Request for Closure

Based on the completion of the remediation activities, OXY requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

6/5/2024

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2103556268
District RP	
Facility ID	
Application ID	


Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 6-12-24
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2202749506
District RP	
Facility ID	
Application ID	

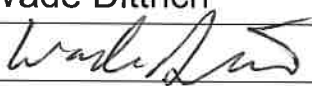
Closure

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- ☐ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 6-12-24
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

From: [Wells, Shelly, EMNRD](#)
To: [Kathy Sweeney](#)
Cc: ["Dittrich, John W"; "cbrunson"; "jgilkey"; Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] SAMPLING NOTIFICATION VARIANCE -SUNDANCE 4-32 SWD (01/20/21-1/20/22) ID# nAPP2103556268, nAPP2202749506
Date: Wednesday, March 13, 2024 8:54:04 AM

Good morning Kathy,

Your notice has been received and updated in epermitting for both incidents.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Kathy Sweeney <kathys@bbcininternational.com>
Sent: Tuesday, March 12, 2024 5:02 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: 'Dittrich, John W' <Wade_Dittrich@oxy.com>; 'cbrunson' <cbrunson@bbcininternational.com>; 'jgilkey' <jgilkey@bbcininternational.com>
Subject: [EXTERNAL] SAMPLING NOTIFICATION VARIANCE -SUNDANCE 4-32 SWD (01/20/21-1/20/22) ID# nAPP2103556268, nAPP2202749506

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Oxy is requesting a variance /change to the sampling notification for the OXY- SUNDANCE 4-32 SWD (01/20/21-1/20/22) ID# nAPP2103556268, nAPP2202749506 . the original sampling notification was set to begin on 03/08/24 at 8:30am . It will now require additional 3 days to complete the sampling . the sampling dates will be 3/11/24, 3/12/24, 3/13/24 . An electronic notification will be submitted as well .

Thank you,

Kathy Sweeney

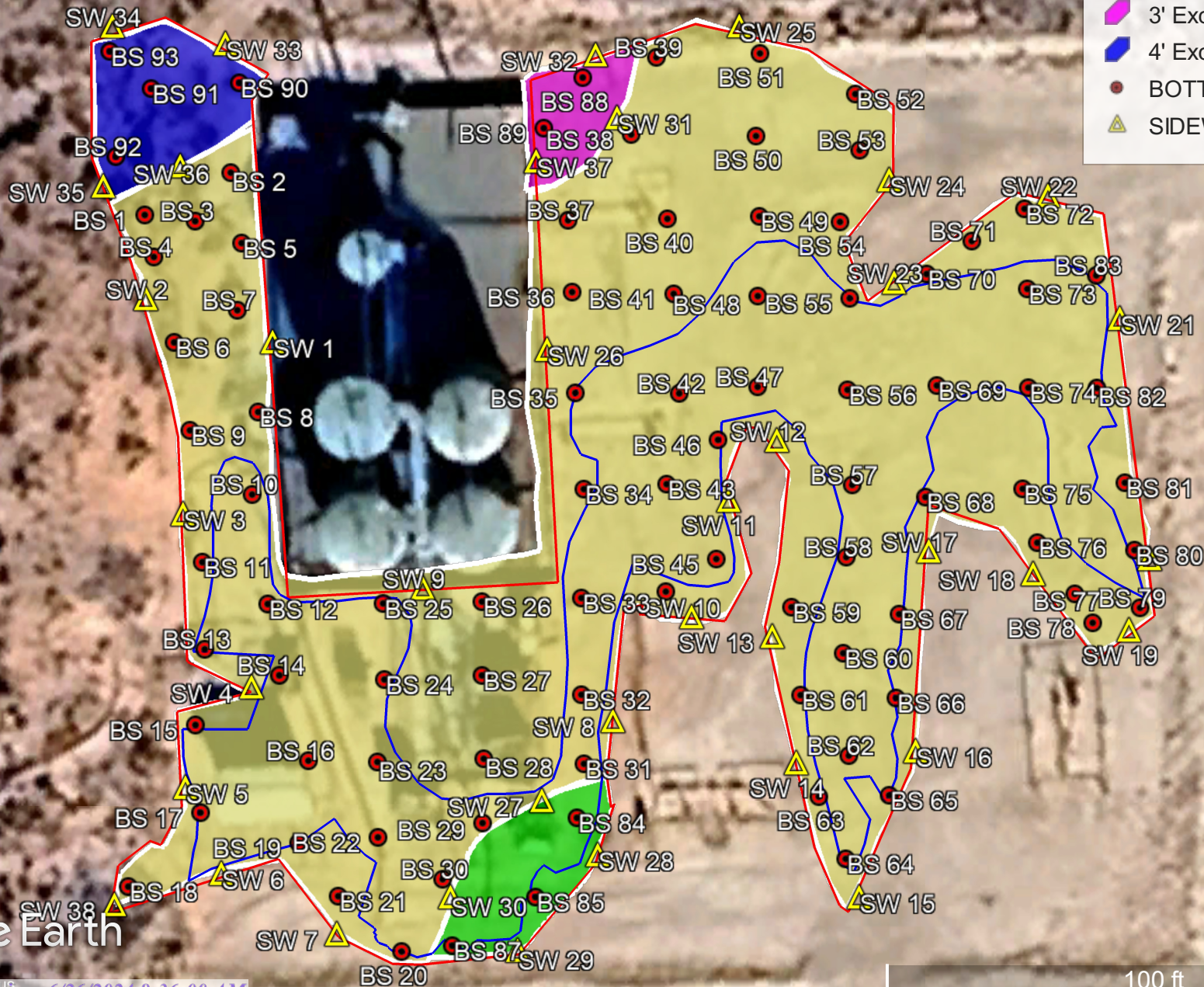
Mailing Address:

OXY, SUNDANCE 4-32 SWD ,

LEAK DATES :1/20/21 ,1/20/22
EDDY COUN TY, NM
ID# nAPP2103556268,nAPP2202749506

Legend

- 01/20/2022
- 1' Excavation
- 1/20/2021
- 2' Excavation
- 3' Excavation
- 4' Excavation
- BOTTOM SAMPLES
- SIDEWALLL SAMPLES



Google Earth

100 ft

**OXY ,SUNDANCE 4-32 SWD (01/20/21, 1/20/22) SAMPLE DATE
3/8/24-3/13/24**

BOTTOM SAMPLE POINTS	W-103.790373
BS 2@1' N 32.252063	W-103.790322
BS 3@1' N 32.252038	W-103.790343
BS 4@1' N 32.252019	W-103.790367
BS 5@1' N 32.252027	W-103.790315
BS 6@1' N 32.252001	W-103.790367
BS 7@1' N 32.252004	W-103.790309
BS 8@1' N 32.251969	W-103.790309
BS 9@1' N 32.251956	W-103.790353
BS 10@1' N 32.241898	W-103.790308
BS 11@1' N 32.251864	W-103.790338
BS 12@1' N 32.251843	W-103.790299
BS 13@1' N 32.251820	W-103.790336
BS 14@1' N 32.251806	W-103.790292
BS 15@1' N 32.251781	W-103.790342
BS 16@1' N 32.251763	W-103.790274
BS 17@1' N 32.251737	W-103.790339
BS 18@1' N 32.251699	W-103.790383
BS 19@1' N 32.251721	W-103.790280
BS 20@1' N 32.251664	W-103.790219
BS 21@1' N 32.251693	W-103.790257
BS 22@1' N 32.251723	W-103.790233
BS 23@1' N 32.251762	W-103.790223
BS 24@1' N 32.251804	W-103.790229
BS 25@1' N 32.251843	W-103.790229
BS 26@1' N 32.251843	W-103.790170
BS 27@1' N 32.251805	W-103.790170
BS 28@1' N 32.251763	W-103.790169
BS 29@1' N 32.251730	W-103.790170
BS 30@1' N 32.215701	W-103.790194
BS 31@1' N 32.251759	W-103.790108
BS 32@1' N 32.251795	W-103.790110
BS 33@1' N 32.251845	W-103.790110
BS 34@1' N 32.251901	W-103.790109
BS 35@1' N 32.251950	W-103.790114
BS 36@1' N 32.252002	W-103.790116
BS 37@1' N 32.252039	W-103.790118
BS 38@1' N 32.252083	W-103.790080
BS 39@1' N 32.252122	W-103.790064
BS 40@1' N 32.252040	W-103.790058
BS 41@1' N 32.252001	W-103.790054

BS 42@1'	N 32.251950	W-103.790050
BS 43@1'	N 32.251903	W-103.790058
BS 44@1'	N 32.251848	W-103.790059
BS 45@1'	N 32.251865	W-103.790028
BS 46@1'	N 32.251926	W-103.790027
BS 47@1'	N 32.251953	W-103.790003
BS 48@1'	N 32.252000	W-103.790003
BS 49@1'	N 32.252041	W-103.790002
BS 50@1'	N 32.250282	W-103.790004
BS 51@1'	N 32.252124	W-103.790002
BS 52@1'	N 32.252104	W-103.789944
BS 53@1'	N 32.252075	W-103.789941
BS 54@1'	N 32.252038	W-103.789953
BS 55@1'	N 32.251997	W-103.789948
BS 56@1'	N 32.251949	W-103.789947
BS 57@1'	N 32.251903	W-103.789945
BS 58@1'	N 32.251866	W-103.789949
BS 59@1'	N 32.251840	W-103.789982
BS 60@1'	N 32.251816	W-103.789951
BS 61@1'	N 32.251795	W-103.789977
BS 62@1'	N 32.251764	W-103.789947
BS 63@1'	N 32.251748	W-103.789967
BS 64@1'	N 32.251710	W-103.789949
BS 65@1'	N 32.251743	W-103.789923
BS 66@1'	N 32.251794	W-103.789919
BS 67@1'	N 32.251837	W-103.789917
BS 68@1'	N 32.251891	W-103.789913
BS 69@1'	N 32.251951	W-103.789897
BS 70@1'	N 32.252014	W-103.789894
BS 71@1'	N 32.252028	W-103.789873
BS 72@1'	N 32.250045	W-103.789841
BS 73@1'	N 32.252004	W-103.789839
BS 74@1'	N 32.251953	W-103.789838
BS 75@1'	N 32.251901	W-103.789842
BS 76@1'	N 32.251875	W-103.789833
BS 77@1'	N 32.251847	W-103.789810
BS 78@1'	N 32.251824	W-103.789796
BS 79@1'	N 32.251840	W-103.787770
BS 80@1'	N 32.251860	W-103.789769
BS 81@1'	N 32.251904	W-103.789779
BS 82@1'	N 32.251953	W-103.789796
BS 83@1'	N 32.252011	W-103.789797
BS 84@2'	N 32.251732	W-103.790113
BS 85@2'	N 32.251692	W-103.790138

BS 86@2'	N 32.251709	W-103.790169
BS 87@2'	N 32.251667	W-103.790188
BS 88@3'	N 32.252112	W-103.790109
BS 89@3'	N 32.252086	W-103.790133
BS 90@4'	N 32.252109	W-103.790317
BS 91@4'	N 32.252106	W-103.790370
BS 92@4'	N 32.252071	W-103.790391
BS 93@4'	N 32.252125	W-103.790396

SIDEWALL SAMPLE POINTS

SW 1	N 32.251976	W-103.790296
SW 2	N 32.251998	W-103.790373
SW 3	N 32.251888	W-103.790350
SW 4	N 32.251800	W-103.790309
SW 5	N 32.251749	W-103.790348
SW 6	N 32.251705	W-103.790327
SW 7	N 32.251673	W-103.790258
SW 8	N 32.251781	W-103.790091
SW 9	N 32.251850	W-103.790206
SW 10	N 32.251834	W-103.790043
SW 11	N 32.251894	W-103.790021
SW 12	N 32.251925	W-103.789992
SW 13	N 32.251824	W-103.789994
SW 14	N 32.251759	W-103.789980
SW 15	N 32.251690	W-103.789942
SW 16	N 32.251766	W-103.789907
SW 17	N 32.251869	W-103.789900
SW 18	N 32.251857	W-103.789836
SW 19	N 32.251828	W-103.789778
SW 20	N 32.251864	W-103.789765
SW 21	N 32.251988	W-103.789783
SW 22	N 32.252051	W-103.789827
SW 23	N 32.252006	W-103.789921
SW 24	N 32.252059	W-103.789924
SW 25	N 32.25138	W-103.790015
SW 26	N 32.251972	W-103.790131
SW 27	N 32.251740	W-103.790135
SW 28	N 32.251712	W-103.790101
SW 29	N 32.251663	W-103.790149
SW 30	N 32.251691	W-103.790190
SW 31	N 32.252091	W-103.790089
SW 32	N 32.252123	W-103.790102

SW 33	N 32.252129	W-103.790326
SW 34	N 32.252137	W-103.790395
SW 35	N 32.252055	W-103.790399
SW 36	N 32.252066	W-103.790353
SW 37	N 32.252068	W-103.790138
SW 38	N 32.251689	W-103.790391

[illegible][illegible][illegible]

	Sample ID	BS 55@1'	BS 56@1'	BS 57@1'	BS 58@1'	BS 59@1'	BS 60@1'	BS 61@1'	BS 62@1'	BS 63@1'	BS 64@1'	BS 65@1'	BS 66@1'	BS 67@1'	BS 68@1'	BS 69@1'	BS 70@1'	BS 71@1'	BS 72@1'
Analyte	Date	3/11/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		32.0	32.0	48.0	32.0	48.0	32.0	32.0	32.0	48.0	16.0	48.0	32.0	16.0	32.0	16.0	16.0	32.0	32.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	BS 73@1'	BS 74@1'	BS 75@1'	BS 76@1'	BS 77@1'	BS 78@1'	BS 79@1'	BS 80@1'	BS 81@1'	BS 83@1'	BS 84@1'	BS 85@1'	BS 86@1'	BS 87@1'	BS 88@1'	BS 89@1'	BS 90@1'	BS 91@1'
Analyte	Date	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24	3/12/24
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	48.0	80.0	128.0	64.0	144.0	80.0	80.0	80.0	64.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	BS 92@1'	BS 93@1'
Analyte	Date	3/12/24	3/12/24
		mg/kg	mg/kg
Benzene		<0.050	<0.050
Toluene		<0.050	<0.050
Ethylbenzene		<0.050	<0.050
Total Xylenes		<0.150	<0.150
Total BTEX		<0.300	<0.300
Chloride		80.0	32.0
GRO		<10.0	<10.0
DRO		<10.0	<10.0
EXT DRO		<10.0	<10.0

	Sample ID	SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	SW 9	SW 10	SW 11	SW 12	SW 13	SW 14	SW 15	SW 16	SW 17	SW 18
Analyte	Date	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		32.0	16.0	32.0	48.0	32.0	48.0	32.0	16.0	32.0	32.0	16.0	48.0	48.0	32.0	32.0	32.0	16.0	32.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	SW 19	SW 20	SW 21	SW 22	SW 23	SW 24	SW 25	SW 26	SW 27	SW 28	SW 29	SW 30	SW 31	SW 32	SW 33	SW 34	SW 35	SW 36
Analyte	Date	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24	3/13/24
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		32.0	16.0	32.0	16.0	32.0	64.0	48.0	448.0	32.0	64.0	32.0	48.0	32.0	64.0	64.0	48.0	32.0	48.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	SW 37	SW 38
Analyte	Date	3/13/24	3/13/24
		mg/kg	mg/kg
Benzene		<0.050	<0.050
Toluene		<0.050	<0.050
Ethylbenzene		<0.050	<0.050
Total Xylenes		<0.150	<0.150
Total BTEX		<0.300	<0.300
Chloride		32.0	48.0
GRO		<10.0	<10.0
DRO		<10.0	<10.0
EXT DRO		<10.0	<10.0

National Flood Hazard Layer FIRMMette



103°47'43"W 32°15'21"N



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

1:6,000

103°47'6"W 32°14'51"N

Released to Imaging: 6/26/2024 8:36:00 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/7/2024 at 1:54 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

OXY, SUNDANCE 4-32 SWD

LEAK DATE :01/20/2021,1/20/2022
EDDY COUNTY, NM
ID#nAPP2103556268

Legend

- 1' Excavation
- 2' Excavation
- 3' Excavation
- 4' Excavation
- Leak Area
- Low

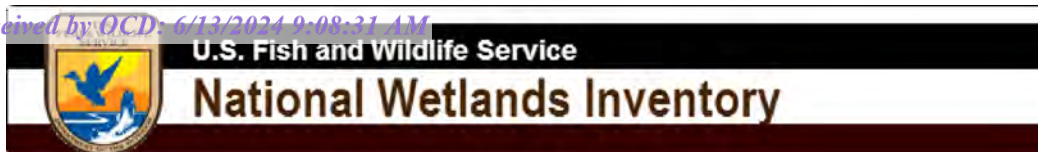


Twin Wells Rd

Google Earth



300 ft



OXY, SUNDANCE 4-32 SWD
(1/20/21,1/20/22)



May 21, 2024

Wetlands

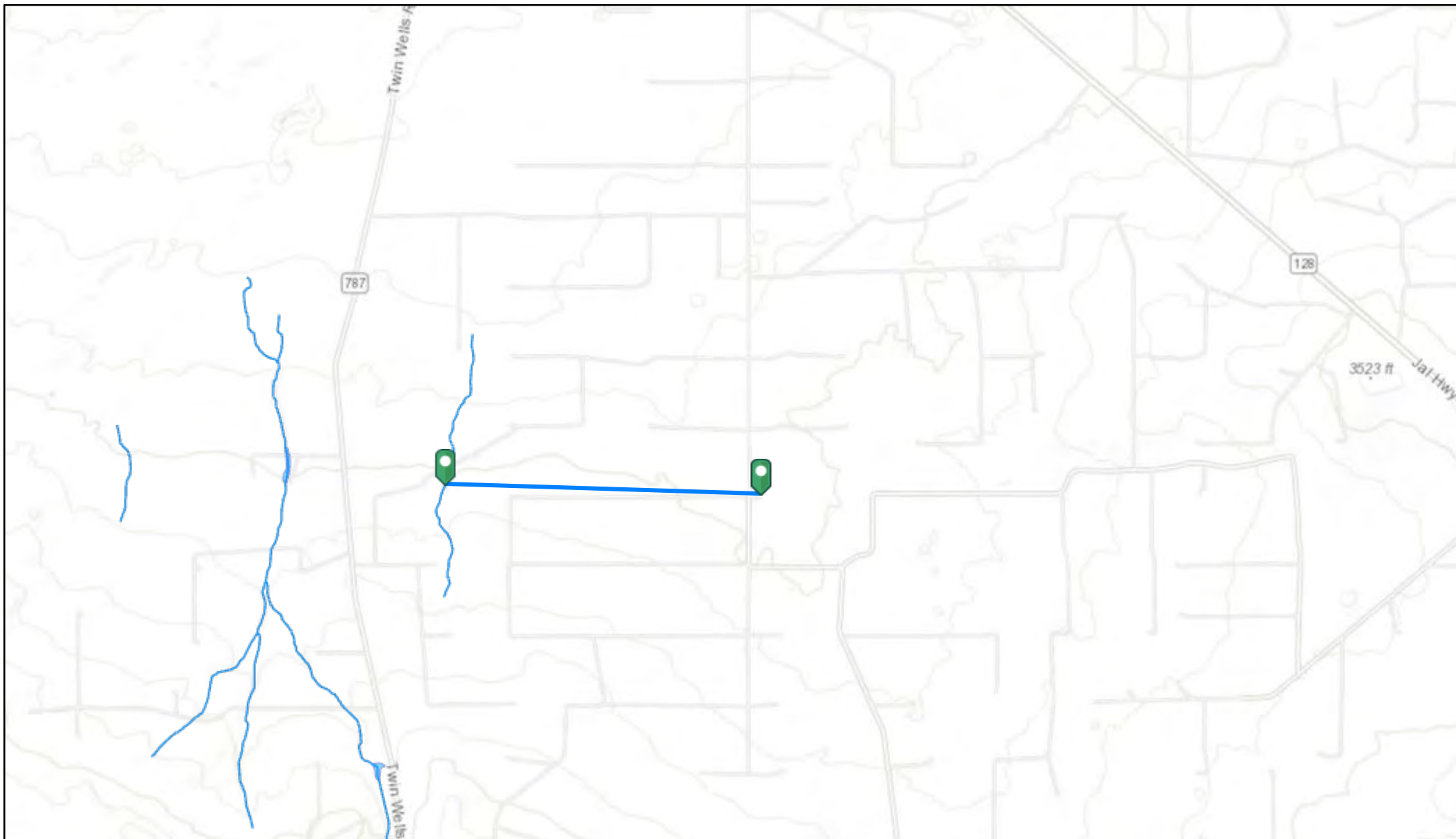
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond



- Lake
- Other
- Riverine

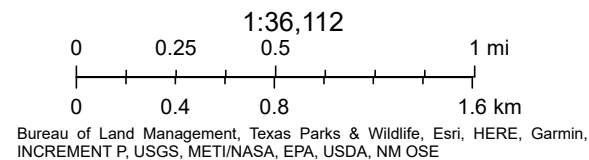
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

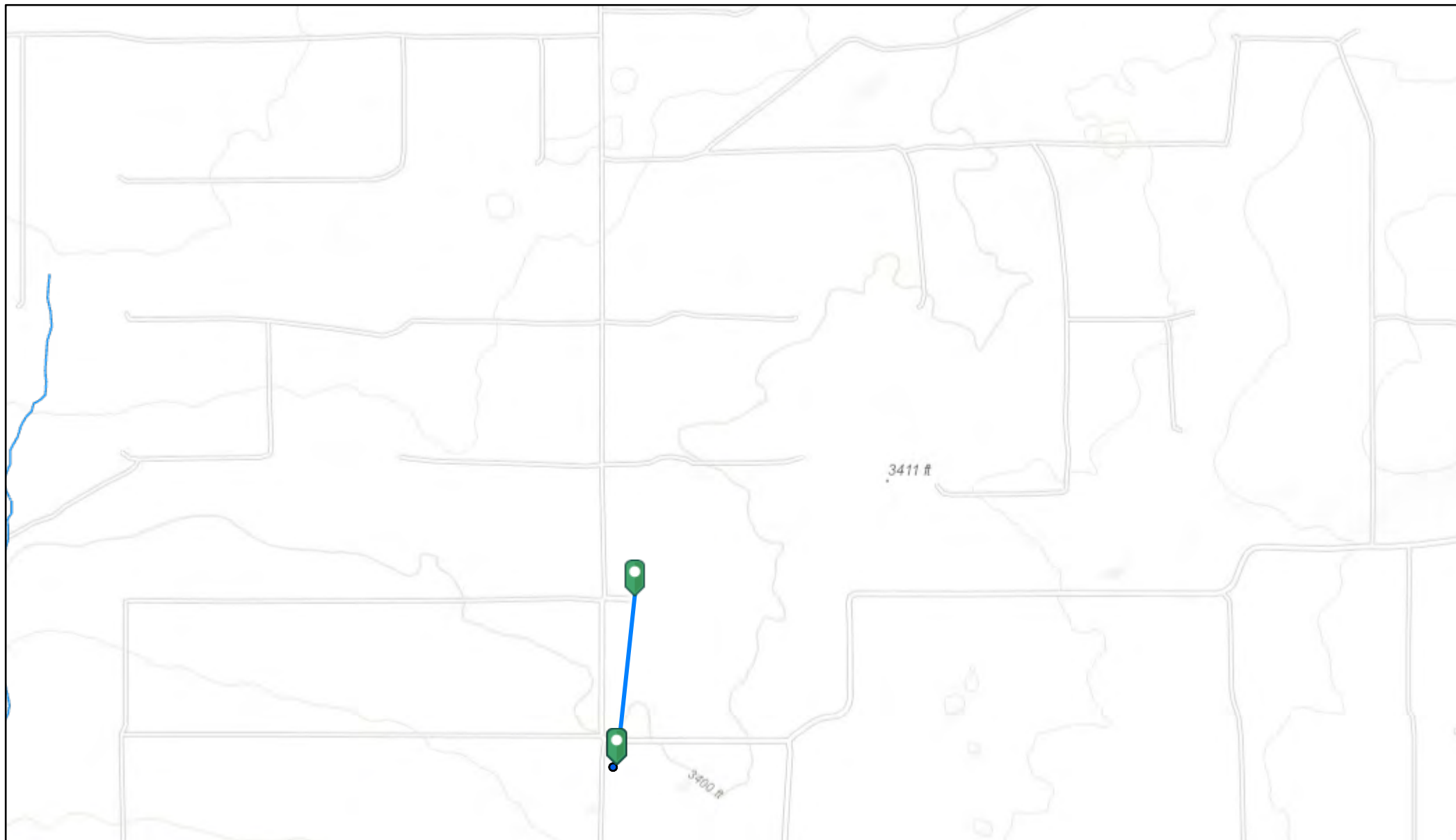
OXY, SUNDANCE 4-32 SWD (1/20/21,1/20/22) 6,050.3 FEET OR 1.14 MILES TO H2O



5/7/2024, 11:22:02 AM

-  OSW Water Bodys
-  OSE Streams





5/7/2024, 11:29:12 AM

OSE Water PODs



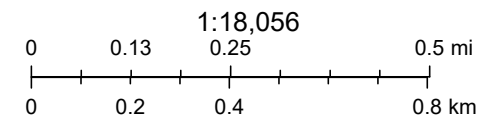
Plugged



OSE Streams



Active



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

F No. C-2783

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL
WITH NO CONSUMPTIVE USE OF WATER

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>2.31338 B5²

Purpose:

☐ Pollution Control And / Or Recovery☐ Geo-Thermal☐ Exploratory☐ Construction Site De-Watering☒ Other (Describe): Well Productivity Test:☒ Monitoring☐ Mineral De-Watering

3.00 a.f. requested. Water to be stored and discharged at the surface

TEMPORARY**METER REQUIRED**
See CONDITION of Approval No.

A separate permit will be required to apply water to beneficial use.

☒ Temporary Request - Requested Start Date: 6/1/2012

Requested End Date: 6/1/2014

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: U.S. Department of Energy -- Waste Isolation Pilot Project	Name:
Contact or Agent: Daniel J. Ferguson check here if Agent <input type="checkbox"/>	Contact or Agent: <input type="checkbox"/>
Mailing Address: P.O. Box 2078	Mailing Address:
City: Carlsbad	City:
State: NM Zip Code: 88220	State: Zip Code:
Phone: 575-234-7018 <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work): 575-234-8218	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): Daniel.Ferguson@wipp.ws	E-mail (optional):

2012 APR 23 P 4: 24

STATE ENGINEER OFFICE
ROSWEI

FOR OSE INTERNAL USE

Application for Permit, Form wr-07, Rev 12/14/11

File Number: C-2783	Trn Number: 502666
Trans Description (optional): Well & Aquifer Test	
Sub-Basin: C	
PCW/LOG Due Date: N/A	

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

TEMPORARY

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84)

☐ NM State Plane (NAD83) (Feet)
 ☐ UTM (NAD83) (Meters)
 ☒ Lat/Long (WGS84) (to the nearest 1/10th of second)

☐ NM West Zone
 ☐ Zone 12N

☐ NM East Zone
 ☒ Zone 13N

☐ NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Optional: Complete boxes labeled "Other" below with PLSS (Public Land Survey System, i.e. Quarters, Section, Township, Range); Hydrographic Survey Map & Tract; Lot, Block & Subdivision; OR Land Grant Name if known.
C-2783-POD2	-103, 47, 26.90	32, 14, 49.40	SW/4 SW/4 SW/4 NW/4, Section 04, T. 24S., R. 31E

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions).
 Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many _____

Other description relating well to common landmarks, streets, or other: _____

Well is on land owned by: **U.S. Department Of Interior-- Bureau Of Land Management**

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☒ No
 If yes, how many _____

Approximate depth of well (feet): 672.00	Outside diameter of well casing (inches): 5.50
Driller Name: Stewart Brothers Drilling Co.	Driller License Number: WD-331

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

A two-part test of existing WIPP Monitoring Well #H-9bR (OSE # C-2783-POD2) is requested to first find the maximum pump rate on the well, which will result in an initial pumping of about 30,000 gallons. After an estimated recovery period of one week, the well will be pumped again to study the characteristics of the Culebra Aquifer in the well area. A total of 3.00 acre-feet is requested for diversion, with the water generated to be stored on the surface and discharged at a controlled rate to prevent erosion.

This request is made to renew permission to appropriate 3.00 acre-feet for well testing purposes, authorized by OSE Permit C-3470, approved on 02-11-2011, which expired before it could be used for the same purpose described above.

FOR USE INTERNAL USE

Application for Permit, Form wr-07

File Number: C-2783

Trn Number: 507666

Page 2 of 3

4. **SPECIFIC REQUIREMENTS:** The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: <input type="checkbox"/> Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge.	Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.	Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water.
Monitoring: <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring.	<input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Geo-Thermal: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The amount of water to be diverted and re-injected for the project, <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	<input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Daniel Ferguson for DOE WIPP

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

TEMPORARY

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 24th day of April 20 12, for the State Engineer,

Scott A. Veithines, P.E.

State Engineer

By: Bill Duemling
Signature

Print

Title: Carlsbad Basin Supervisor
Print

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number: C-2783

Trn Number: 502666

Page 3 of 3

TEMPORARY**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO TEST WELL & TEST AQUIFER****SPECIFIC CONDITIONS OF APPROVAL**

- SB A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor on or before the 10th of Jan., April, July, and Oct. of each year for the 3 preceeding calendar months.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

NO WATER SHALL BE DIVERTED FROM THIS WELL EXCEPT FOR WELL TESTING AND THE ANALYSIS OF AQUIFER PROPERTIES WHICH SHALL COMMENCE ON JUNE 1, 2012 AND TERMINATE ON OR BEFORE JUNE 1, 2014.

THE MAXIMUM DIVERSION OF WATER FROM THIS WELL FOR TESTING PURPOSES SHALL NOT EXCEED 3.00 ACRE FEET TOTAL FOR THE DURATION OF THE PROJECT. ANY DIVERSION OF WATER MADE IN EXCESS OF THE AUTHORIZED MAXIMUM DIVERSION AMOUNT SHALL BE REPAID WITH TWICE THE AMOUNT OF THE OVER-DIVERSION. REPAYMENT SHALL BE MADE BY ACQUIRING OR LEASING A VALID, EXISTING CONSUMPTIVE-USE WATER RIGHT IN AN AMOUNT EQUAL TO THE REPAYMENT AMOUNT AND SUBMITTING TO THE STATE ENGINEER FOR HIS APPROVAL A PLAN FOR THE PROPOSED REPAYMENT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 04/23/2012	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 24 day of Apr 2012

Scott A. Verhines, P.E., State Engineer

By: Bill Duemling
Bill Duemling, Basin Supv.

METER REQUIRED
See CONDITION of Approval No.

Trn Desc: C 02783: PUMPING TEST PERMIT

File Number: C 02783

Trn Number: 502666

page: 1

Locator Tool Report**General Information:**

Application ID:30

Date: 04-24-2012

Time: 16:23:41

WR File Number: C-02783-POD2

Purpose: POINT OF DIVERSION

Applicant First Name: DEPT. OF ENERGY (WIPP)

Applicant Last Name: MONITOR WELL TEST: 3.00 A.F.

GW Basin: CARLSBAD

County: EDDY

Critical Management Area Name(s): NONE

Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SW 1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 04, Township 24S, Range 31E.

Coordinate System Details:**Geographic Coordinates:**

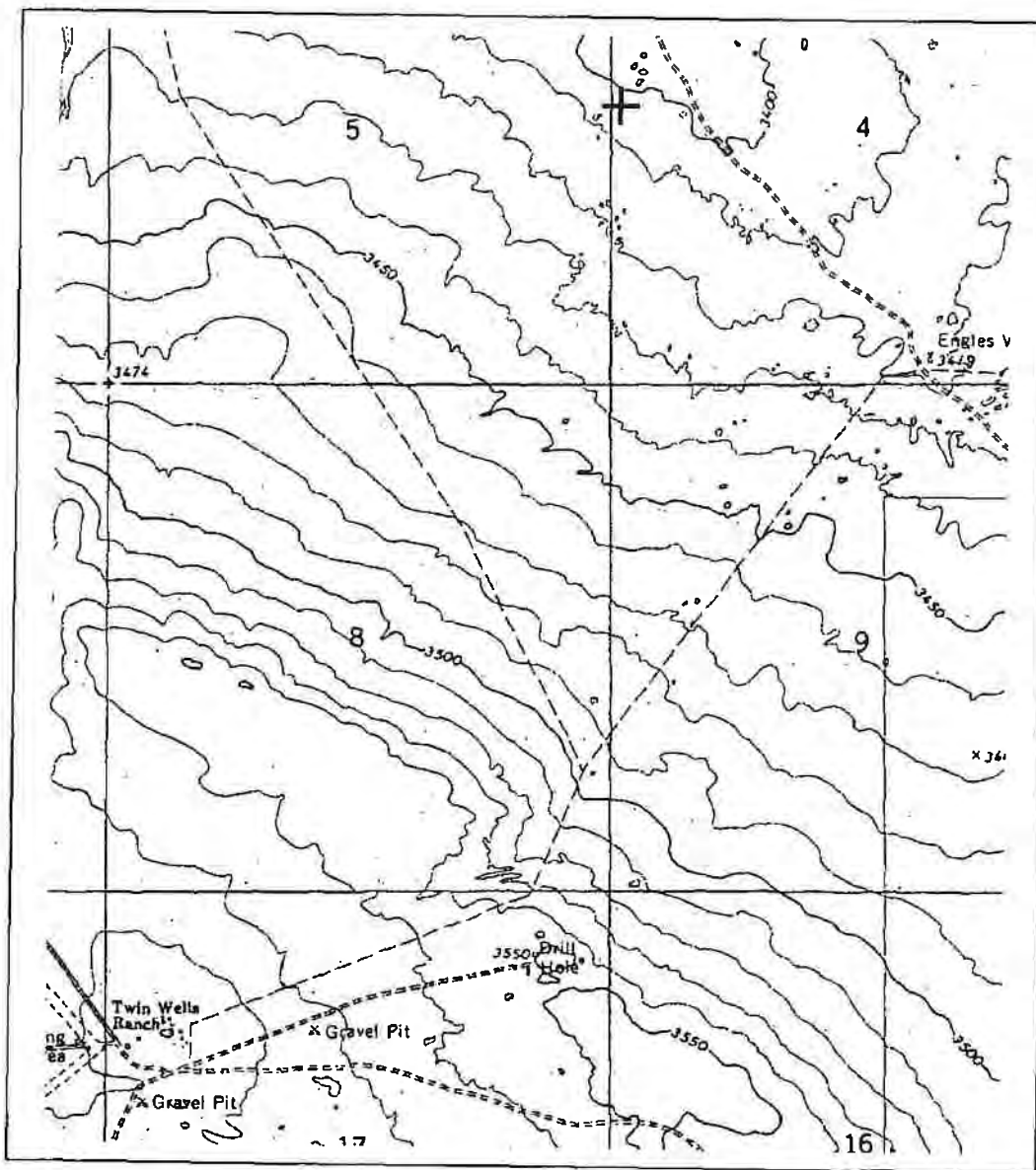
Latitude: 32 Degrees 14 Minutes 49.4 Seconds N
Longitude: 103 Degrees 47 Minutes 26.9 Seconds W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters)	N: 3,568,462	E: 613,911
NAD 1983(92) (Survey Feet)	N: 11,707,529	E: 2,014,140
NAD 1927 (Meters)	N: 3,568,260	E: 613,960
NAD 1927 (Survey Feet)	N: 11,706,867	E: 2,014,299

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 138,390	E: 216,123
NAD 1983(92) (Survey Feet)	N: 454,036	E: 709,063
NAD 1927 (Meters)	N: 138,372	E: 203,570
NAD 1927 (Survey Feet)	N: 453,977	E: 667,879

NEW MEXICO OFFICE OF STATE ENGINEER**Locator Tool Report**

WR File Number: C-02783-POD2 Scale: 1:23,169

Northing/Easting: UTM83(92) (Meter): N: 3,568,462 E: 613,911

Northing/Easting: SPCS83(92) (Feet): N: 454,036 E: 709,063

GW Basin: Carlsbad

Scott A. Verhines, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 502666
File Nbr: C 02783

TEMPORARY

Apr. 24, 2012

DANIEL J. FERGUSON
U.S. DEPT. OF ENERGY - WIPP
P.O. BOX 3090
CARLSBAD, NM 88221-3090

Greetings:

Enclosed is your copy of the above numbered permit that has been approved
subject to the conditions set forth on the approval page.

For your convenience, blank meter report forms are enclosed.

Sincerely,


Bill Duemling
(575) 622-6521

Enclosure

explore

METER REQUIRED
See CONDITION of Approval No.

58



OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21),1/20/22





OXY – SUNDANCE 4-32 SWD (1/20/21)





OXY – SUNDANCE 4-32 SWD (1/20/21 ,1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21 ,1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21 ,1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21)





OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)





OXY – SUNDANCE 4-32 SWD (1/20/21 ,1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21 , 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21 ,1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21 ,1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21 , 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21)



OXY – SUNDANCE 4-32 SWD (1/20/21 , 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21, 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21)



OXY – SUNDANCE 4-32 SWD (1/20/21 , 1/20/22)



OXY – SUNDANCE 4-32 SWD (1/20/21 , 1/20/22)





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

March 20, 2024

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 4-32 SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/15/24 8:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 1 (H241348-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	03/15/2024	Sampling Date:	03/08/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 2 (H241348-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/15/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	03/15/2024	Sampling Date:	03/08/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 3 (H241348-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/16/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 4 (H241348-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 5 (H241348-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2024	Sampling Date:	03/08/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 6 (H241348-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/16/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2024	Sampling Date:	03/08/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 7 (H241348-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2024	Sampling Date:	03/08/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 8 (H241348-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/16/2024	ND	195	97.3	200	3.60	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	191	95.7	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 9 (H241348-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/15/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 10 (H241348-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 11 (H241348-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 12 (H241348-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/15/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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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:	03/15/2024	Sampling Date:	03/08/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 13 (H241348-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00	
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42	
Total BTX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/15/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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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:	03/15/2024	Sampling Date:	03/08/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 14 (H241348-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 15 (H241348-15)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00	
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42	
Total BTX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/15/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 16 (H241348-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 17 (H241348-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/18/2024	ND	432	108	400	7.69		

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	03/15/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 18 (H241348-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.21	110	2.00	3.00		
Toluene*	<0.050	0.050	03/16/2024	ND	2.26	113	2.00	1.62		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.40	120	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.21	120	6.00	1.42		
Total BTX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 19 (H241348-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/15/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 20 (H241348-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 21 (H241348-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 22 (H241348-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 23 (H241348-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 24 (H241348-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 25 (H241348-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2024	Sampling Date:	03/11/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 26 (H241348-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/15/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 27 (H241348-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 28 (H241348-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	183	91.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 29 (H241348-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 30 (H241348-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	03/15/2024	Sampling Date:	03/11/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 31 (H241348-31)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 32 (H241348-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 33 (H241348-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 34 (H241348-34)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 35 (H241348-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/18/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 36 (H241348-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 37 (H241348-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	464	116	400	10.9		

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	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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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:	03/15/2024	Sampling Date:	03/11/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 38 (H241348-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.25	113	2.00	2.66		
Toluene*	<0.050	0.050	03/16/2024	ND	2.10	105	2.00	5.15		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.07	104	2.00	7.25		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.11	102	6.00	8.05		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 39 (H241348-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/15/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.37	106	6.00	2.15		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 40 (H241348-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/15/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 41 (H241348-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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

Received:	03/15/2024	Sampling Date:	03/11/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 42 (H241348-42)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 43 (H241348-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	03/15/2024	Sampling Date:	03/11/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 44 (H241348-44)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 45 (H241348-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 46 (H241348-46)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 47 (H241348-47)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 48 (H241348-48)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	187	93.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	194	96.9	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	03/15/2024	Sampling Date:	03/11/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 49 (H241348-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 50 (H241348-50)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 51 (H241348-51)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 52 (H241348-52)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 53 (H241348-53)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

BBC International, Inc.
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 P.O. Box 805
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 54 (H241348-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Analytical Results For:

BBC International, Inc.
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 P.O. Box 805
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Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 55 (H241348-55)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03	
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15	
Total BTX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 56 (H241348-56)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03	
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15	
Total BTX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 57 (H241348-57)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 58 (H241348-58)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	2.03		
Toluene*	<0.050	0.050	03/16/2024	ND	2.18	109	2.00	2.51		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.12	106	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.37	106	6.00	2.15		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 59 (H241348-59)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 60 (H241348-60)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 61 (H241348-61)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 62 (H241348-62)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 63 (H241348-63)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 64 (H241348-64)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 65 (H241348-65)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 66 (H241348-66)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 67 (H241348-67)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2024	Sampling Date:	03/12/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 68 (H241348-68)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	202	101	200	4.69	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	210	105	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 69 (H241348-69)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 70 (H241348-70)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 71 (H241348-71)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 72 (H241348-72)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 73 (H241348-73)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 74 (H241348-74)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 75 (H241348-75)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 76 (H241348-76)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 77 (H241348-77)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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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:	03/15/2024	Sampling Date:	03/12/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	SUNDANCE 4-32 SWD	Sampling Condition:	Cool & Intact
Project Number:	(1-20-21 / 1-20-22)	Sample Received By:	Dionica Hinojos
Project Location:	OXY -EDDY COUNTY, NM		

Sample ID: BOTTOM SAMPLE 78 (H241348-78)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	1.89	94.6	2.00	5.08		
Toluene*	<0.050	0.050	03/15/2024	ND	1.95	97.7	2.00	4.21		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	1.91	95.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	5.84	97.3	6.00	4.30		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 79 (H241348-79)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 80 (H241348-80)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 81 (H241348-81)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 82 (H241348-82)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37	
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 83 (H241348-83)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 84 (H241348-84)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 85 (H241348-85)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 86 (H241348-86)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 87 (H241348-87)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 88 (H241348-88)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	198	98.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	211	105	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 89 (H241348-89)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/15/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.45	124	6.00	9.76		
Total BTEx	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	QM-07
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21 / 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 90 (H241348-90)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST			
Project Manager: Cliff Brunson				P.O. #:							
Address: P.O. Box 805				Company: Oxy							
City: Hobbs				Attn:							
Phone #: 575-397-6388				State: NM				Zip: 88241			
Fax #: 575-397-0397				Address:							
Project #:				City:							
Project Owner: Oxy				State:				Zip:			
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)				Phone #:							
Project Location: New Mexico				Fax #:							
Sampler Name: SIMON RENDON											

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	Chloride	BTEX	TPH Ext								
				GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE														ICE / COOL	OTHER
	BOTTOM SAMPLE 1											3-8-24	8:45AM	✓	✓	✓								
	BOTTOM SAMPLE 2											3-8-24	8:53AM	✓	✓	✓								
	BOTTOM SAMPLE 3											3-8-24	9:04AM	✓	✓	✓								
	BOTTOM SAMPLE 4											3-8-24	9:15AM	✓	✓	✓								
	BOTTOM SAMPLE 5											3-8-24	9:27AM	✓	✓	✓								
	BOTTOM SAMPLE 6											3-8-24	9:41AM	✓	✓	✓								
	BOTTOM SAMPLE 7											3-8-24	9:55AM	✓	✓	✓								
	BOTTOM SAMPLE 8											3-8-24	10:07AM	✓	✓	✓								
	BOTTOM SAMPLE 9											3-8-24	10:16AM	✓	✓	✓								
	BOTTOM SAMPLE 10											3-8-24	10:30AM	✓	✓	✓								

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Relinquished By:	Date: 3-14-24	Received By:	Date: 3-14-24
Relinquished By:	Time: 8:00 AM	Received By:	Time: 8:47 PM
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) DA

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1814



ORDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

28/14

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4/8/14

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST							
Project Manager: Cliff Brunson				P.O. #:											
Address: P.O. Box 805				Company: Oxy											
City: Hobbs				Attn:											
Phone #: 575-397-6388				State: NM Zip: 88241											
Fax #: 575-397-0397				Address:											
Project #:				City:											
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)				State:											
Project Location: New Mexico				Zip:											
Sampler Name: SIMON RENDON				Phone #:											
FOR LAB USE ONLY				Fax #:											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING			
31		BOTTOM SAMPLE 31		C		1		GROUNDWATER				3-11-24 10:43AM			
32		BOTTOM SAMPLE 32						WASTEWATER				3-11-24 10:54AM			
33		BOTTOM SAMPLE 33						SOIL				3-11-24 11:04AM			
34		BOTTOM SAMPLE 34						SLUDGE				3-11-24 11:16AM			
35		BOTTOM SAMPLE 35						OTHER:				3-11-24 11:29AM			
36		BOTTOM SAMPLE 36						ACID/BASE:				3-11-24 11:42AM			
37		BOTTOM SAMPLE 37						ICE / COOL				3-11-24 11:57AM			
38		BOTTOM SAMPLE 38						OTHER:				3-11-24 12:08PM			
39		BOTTOM SAMPLE 39										3-11-24 12:42PM			
40		BOTTOM SAMPLE 40										3-11-24 12:53PM			
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Relinquished By:				Date: 3-11-24				Received By:				Date: 3-11-24			
Relinquished By:				Time: 8:10 AM				Received By:				Time: 8:14 AM			
Delivered By: (Circle One)				Sample Condition				CHECKED BY:							
Sampler - UPS - Bus - Other:				Cool <input type="checkbox"/> Intact <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>							
				Yes <input type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>							
REMARKS:															

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5-18-14

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		P.O. #:			
Address: P.O. Box 805		Company: Oxy			
City: Hobbs		Attn:			
Phone #: 575-397-6388		Address:			
Fax #: 575-397-0397		City:			
Project #:		State:			
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)		Zip:			
Project Location: New Mexico		Phone #:			
Sampler Name: SIMON RENDON		Fax #:			
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV
				GROUNDWATER	SAMPLING
				WASTEWATER	
				SOIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
				DATE	TIME
41	BOTTOM SAMPLE 41			3-11-24	1:05PM
42	BOTTOM SAMPLE 42			3-11-24	1:14PM
43	BOTTOM SAMPLE 43			3-11-24	1:28PM
44	BOTTOM SAMPLE 44			3-11-24	1:40PM
45	BOTTOM SAMPLE 45			3-11-24	1:51PM
46	BOTTOM SAMPLE 46			3-11-24	2:04PM
47	BOTTOM SAMPLE 47			3-11-24	2:16PM
48	BOTTOM SAMPLE 48			3-11-24	2:29PM
49	BOTTOM SAMPLE 49			3-11-24	2:41PM
50	BOTTOM SAMPLE 50			3-11-24	2:53PM
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Relinquished By: <i>Simon Rendón</i> Date: 3-15-24 Received By: <i>Shael Jones</i> Date: 3-15-24					
Relinquished By: <i>Shael Jones</i> Date: 3-15-24 Received By: <i>Shael Jones</i> Date: 3-15-24					
Delivered By: (Circle One) <i>Shael Jones</i> Time: 8:47 Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No					
Sampler - UPS - Bus - Other: <i>UPS</i> Checked By: <i>Shael Jones</i> Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:					
REMARKS:					

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CARDINAL LABORATORIES
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6814

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)

Project Location: New Mexico

Sampler Name: SIMON RENDON

BILL TO

ANALYSIS REQUEST

P.O. #: _____ Company: Oxy
Attn: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone #: _____ Fax #: _____

FOR LAB USE ONLY		MATRIX		PRESERV	SAMPLING
Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL SLUDGE OTHER	ACID/BASE: ICE COOL OTHER
51	BOTTOM SAMPLE 51				
52	BOTTOM SAMPLE 52				
53	BOTTOM SAMPLE 53				
54	BOTTOM SAMPLE 54				
55	BOTTOM SAMPLE 55				
56	BOTTOM SAMPLE 56				
57	BOTTOM SAMPLE 57				
58	BOTTOM SAMPLE 58				
59	BOTTOM SAMPLE 59				
60	BOTTOM SAMPLE 60				

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Relinquished By: _____ Date: 3-14-24 Received By: _____
Time: 8:00PM
Delivered By: (Circle One) _____
Time: 8:47
Sampler - UPS - Bus - Other: _____
Sample Condition: ☒ Intact ☐ Cool ☐ Yes ☐ No
CHECKED BY: (Initials) _____

Phone Result: ☐ Yes ☐ No Add'l Phone #: _____
Fax Result: ☐ Yes ☐ No Add'l Fax #: _____
REMARKS: _____

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

78/14

Company Name: BBC International, Inc.				P.O. #:																	
Project Manager: Cliff Brunson																					
Address: P.O. Box 805				Company: Oxy																	
City: Hobbs				Attn:																	
State: NM zip: 88241																					
Phone #: 575-397-6388				Address:																	
Fax #: 575-397-0397																					
Project Owner: Oxy				City:																	
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)				State: Zip:																	
Project Location: New Mexico				Phone #:																	
Sample Name: SIMON RENDON				Fax #:																	
FOR LAB USE ONLY				MATRIX	PRESERV	SAMPLING															
(G)RAB OR (C)OMP.				# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE COOL	OTHER :	DATE	TIME	Chloride	BTEX	TPH Ext				
Lab I.D. H241348				Sample I.D.																	
BOTTOM SAMPLE 61																					
BOTTOM SAMPLE 62																					
BOTTOM SAMPLE 63																					
BOTTOM SAMPLE 64																					
BOTTOM SAMPLE 65																					
BOTTOM SAMPLE 66																					
BOTTOM SAMPLE 67																					
BOTTOM SAMPLE 68																					
BOTTOM SAMPLE 69																					
BOTTOM SAMPLE 70																					
3-12-24																					
11:20AM																					

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Date	Time	Received By	Relinquished By
3-14-24	8:14 AM	[Signature]	[Signature]
3-14-24	8:14 AM	[Signature]	[Signature]

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
UPS - Bus - Other:	<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	[Signature]

REMARKS:

Phone Result:	Add'l Phone #:
<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

EST 8/14

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

9/8/14

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company: Oxy			
Address: P.O. Box 805		Attn:			
City: Hobbs		Address:			
Phone #: 575-397-6388		City:			
Fax #: 575-397-0397		State:			
Project #:		Zip:			
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)		Phone #:			
Project Location: New Mexico		Fax #:			
Sampler Name: SIMON RENDON					

FOR LAB USE ONLY		BILL TO			
Lab I.D. #241346		P.O. #:			
Sample I.D.		Company: Oxy			
		Attn:			
		Address:			
		City:			
		State:			
		Zip:			
		Phone #:			
		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER			DATE	TIME	Chloride	BTEX	TPH	Ext				
51	BOTTOM SAMPLE 81							3-12-24	1:53PM	✓	✓	✓					
82	BOTTOM SAMPLE 82							3-12-24	2:04PM	✓	✓	✓					
83	BOTTOM SAMPLE 83							3-12-24	2:15PM	✓	✓	✓					
84	BOTTOM SAMPLE 84							3-12-24	2:26PM	✓	✓	✓					
85	BOTTOM SAMPLE 85							3-12-24	2:39PM	✓	✓	✓					
86	BOTTOM SAMPLE 86							3-12-24	2:52PM	✓	✓	✓					
87	BOTTOM SAMPLE 87							3-12-24	3:02PM	✓	✓	✓					
88	BOTTOM SAMPLE 88							3-12-24	3:12PM	✓	✓	✓					
89	BOTTOM SAMPLE 89							3-12-24	3:20PM	✓	✓	✓					
90	BOTTOM SAMPLE 90							3-12-24	3:29PM	✓	✓	✓					

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Relinquished By: Simon Rendon	Date: 3-14-24	Received By: Michael Far	Time: 8:00AM
Relinquished By: Simon Rendon	Date: 3-14-24	Received By: Michael Far	Time: 8:00AM
Delivered By: (Circle One) <u>UPS</u>	Time: 2:47	Sample Condition: <u>Intact</u>	CHECKED BY: (Initials) <u>MF</u>
Sampler - UPS - Bus - Other:			

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

March 20, 2024

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 4-32 SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/15/24 8:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly legible.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 91 (H241349-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37	
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76	
Total BTEX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/18/2024	ND	448	112	400	3.64	

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 92 (H241349-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BOTTOM SAMPLE 93 (H241349-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 1 (H241349-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37	
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76	
Total BTEX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 2 (H241349-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 3 (H241349-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 4 (H241349-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	448	112	400	3.64		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 5 (H241349-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.19	110	2.00	3.37		
Toluene*	<0.050	0.050	03/16/2024	ND	2.34	117	2.00	7.18		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.52	126	2.00	8.79		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	7.45	124	6.00	9.76		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

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Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 6 (H241349-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 7 (H241349-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 8 (H241349-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 9 (H241349-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 10 (H241349-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 11 (H241349-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 12 (H241349-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/18/2024	ND	416	104	400	7.41	

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 13 (H241349-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 14 (H241349-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53	
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16	
Total BTEX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 15 (H241349-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	222	111	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	212	106	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 16 (H241349-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 17 (H241349-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 18 (H241349-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 19 (H241349-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 20 (H241349-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53	
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31	
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16	
Total BTEX	<0.300	0.300	03/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 21 (H241349-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 22 (H241349-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 23 (H241349-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 24 (H241349-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEx	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	416	104	400	7.41		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Fax To: (575) 397-0397

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 25 (H241349-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.24	112	2.00	7.53		
Toluene*	<0.050	0.050	03/16/2024	ND	2.14	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2024	ND	2.17	108	2.00	6.31		
Total Xylenes*	<0.150	0.150	03/16/2024	ND	6.45	107	6.00	7.16		
Total BTEX	<0.300	0.300	03/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 26 (H241349-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 27 (H241349-30)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 28 (H241349-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 29 (H241349-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 30 (H241349-33)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58	
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44	
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60	
Total BTEX	<0.300	0.300	03/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/18/2024	ND	432	108	400	3.64	

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 31 (H241349-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 32 (H241349-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEx	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 33 (H241349-36)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 34 (H241349-37)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58	
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44	
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60	
Total BTEX	<0.300	0.300	03/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/18/2024	ND	432	108	400	3.64	

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 35 (H241349-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58	
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44	
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60	
Total BTEX	<0.300	0.300	03/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	196	97.8	200	5.18	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	195	97.6	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 36 (H241349-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	194	96.9	200	2.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	205	103	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 37 (H241349-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58		
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44		
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60		
Total BTEX	<0.300	0.300	03/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	194	96.9	200	2.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	205	103	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/15/2024
 Reported: 03/20/2024
 Project Name: SUNDANCE 4-32 SWD
 Project Number: (1-20-21/ 1-20-22)
 Project Location: OXY -EDDY COUNTY, NM

Sampling Date: 03/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SIDEWALL SAMPLE 38 (H241349-41)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2024	ND	2.25	112	2.00	4.58	
Toluene*	<0.050	0.050	03/17/2024	ND	2.19	110	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/17/2024	ND	2.15	108	2.00	4.44	
Total Xylenes*	<0.150	0.150	03/17/2024	ND	6.26	104	6.00	4.60	
Total BTEx	<0.300	0.300	03/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2024	ND	432	108	400	3.64		

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	03/18/2024	ND	194	96.9	200	2.01	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	205	103	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10814
QUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.						BILL TO								ANALYSIS REQUEST						
Project Manager: Cliff Brunson						P.O. #:														
Address: P.O. Box 805						Company: Oxy														
City: Hobbs						Attn:														
State: NM Zip: 88241						Address:														
Phone #: 575-397-6388 Fax #: 575-397-0397																				
Project #:						City:														
Project Owner: Oxy						State:														
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)						Zip:														
Project Location: New Mexico						Phone #:														
Fax #:																				
Sample Name: SIMON RENDON						PRESERV:														
FOR LAB USE ONLY						MATRIX														
						GROUNDWATER														
						WASTEWATER														
						SOIL														
						SLUDGE														
						OTHER :														
						ACID/BASE:														
						ICE COOL														
						OTHER :														
						DATE														
						TIME														
11 SIDEWALL SAMPLE 8						3-13-24 9:38AM								✓ Chloride						
12 SIDEWALL SAMPLE 9						3-13-24 9:51AM								✓ BTEX						
13 SIDEWALL SAMPLE 10						3-13-24 10:01AM								✓ TPH Ext						
14 SIDEWALL SAMPLE 11						3-13-24 10:10AM														
15 SIDEWALL SAMPLE 12						3-13-24 10:18AM														
16 SIDEWALL SAMPLE 13						3-13-24 10:27AM														
17 SIDEWALL SAMPLE 14						3-13-24 10:36AM														
18 SIDEWALL SAMPLE 15						3-13-24 10:44AM														
19 SIDEWALL SAMPLE 16						3-13-24 10:55AM														
20 SIDEWALL SAMPLE 17						3-13-24 11:04AM														
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Relinquished By: [Signature]						Date: 3-14-24 Received By: [Signature]								Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:						
Time: 8:00 AM																				
Relinquished By: [Signature]						Date: 3-14-24 Received By: [Signature]								REMARKS:						
Time: 8:47 PM																				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:						Sample Condition Cool Intact Yes No Checked BY: (Initials)														
[Signature]						-5.6°C H140														

† 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

12814

Company Name: BBC International, Inc.							
Project Manager: Cliff Brunson							
Address: P.O. Box 805							
City: Hobbs						State: NM Zip: 88241	
Phone #: 575-397-6388						Fax #: 575-397-0397	
Project #:						Project Owner: Oxy	
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)						City:	
Project Location: New Mexico						State: Zip:	
Sample Name: SIMON RENDON						Phone #:	
						Fax #:	
FOR LAB USE ONLY							
Lab I.D. H241349		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE COOL			
				OTHER :			
				DATE		TIME	
01	SIDEWALL SAMPLE 18	C	I	3-13-24	11:12AM	✓	Chloride
02	SIDEWALL SAMPLE 19			3-13-24	11:21AM	✓	BTEX
03	SIDEWALL SAMPLE 20			3-13-24	11:30AM	✓	TPH Ext
04	SIDEWALL SAMPLE 21			3-13-24	11:34AM	✓	
05	SIDEWALL SAMPLE 22			3-13-24	11:49AM	✓	
06	SIDEWALL SAMPLE 23			3-13-24	12:01PM	✓	
07	SIDEWALL SAMPLE 24			3-13-24	12:12PM	✓	
08	SIDEWALL SAMPLE 25			3-13-24	12:21PM	✓	
09	SIDEWALL SAMPLE 26			3-13-24	12:33PM	✓	
10	SIDEWALL SAMPLE 27			3-13-24	12:45PM	✓	
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Relinquished By: 		Date: 3-14-24		Received By: 		Time: 8:00 AM	
Relinquished By: 		Date: 3-14-24		Received By: 		Time: 3:15 PM	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact Yes No		CHECKED BY: (Initials) 		REMARKS: Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)

Project Location: New Mexico

Sampler Name: SIMON RENDON

BILL TO

P.O. #:

Company: Oxy

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Sample I.D.	Lab I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER												
31									3-13-24	1:03PM	✓	✓	✓							
32									3-13-24	1:14PM	✓	✓	✓							
33									3-13-24	1:27PM	✓	✓	✓							
34									3-13-24	1:39PM	✓	✓	✓							
35									3-13-24	1:48PM	✓	✓	✓							
36									3-13-24	2:00PM	✓	✓	✓							
37									3-13-24	2:09PM	✓	✓	✓							
38									3-13-24	2:20PM	✓	✓	✓							
39									3-13-24	2:27PM	✓	✓	✓							
40									3-13-24	2:36PM	✓	✓	✓							

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Relinquished By:

Time: 8:00PM

Date: 3-14-24

Received By:

Time: 3:45-24

Date: 3-15-24

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☐ Intact ☐

Yes ☐ No ☐

CHECKED BY:

(Initials)

Yes ☐ No ☐

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

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



• CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

14814

Company Name: BBC International, Inc.										BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson										P.O. #:																			
Address: P.O. Box 805										Company: Oxy																			
City: Hobbs										Attn:																			
State: NM Zip: 88241										Address:																			
Phone #: 575-397-6388										City:																			
Fax #: 575-397-0397										State: Zip:																			
Project #: Project Owner: Oxy										Phone #:																			
Project Name: SUNDANCE 4-32 SWD (1-20-21/1-20-22)										Fax #:																			
Project Location: New Mexico																													
Sampler Name: SIMON RENDON																													

FOR LAB USE ONLY																													
<div style="text-align: center;"> Sample I.D. <div style="border: 1px solid black; padding: 5px; display: inline-block;">41</div> </div>										(G)RAB OR (C)OMP.																			
										# CONTAINERS																			
<div style="text-align: center;"> Sample I.D. <div style="border: 1px solid black; padding: 5px; display: inline-block;">41</div> </div>										GROUNDWATER																			
										WASTEWATER																			
<div style="text-align: center;"> Sample I.D. <div style="border: 1px solid black; padding: 5px; display: inline-block;">41</div> </div>										SOIL																			
										SLUDGE																			
<div style="text-align: center;"> Sample I.D. <div style="border: 1px solid black; padding: 5px; display: inline-block;">41</div> </div>										OTHER :																			
										ACID/BASE:																			
<div style="text-align: center;"> Sample I.D. <div style="border: 1px solid black; padding: 5px; display: inline-block;">41</div> </div>										ICE (COOL)																			
										OTHER :																			
<div style="text-align: center;"> Sample I.D. <div style="border: 1px solid black; padding: 5px; display: inline-block;">41</div> </div>										DATE										TIME									
										3-13-24										1:03PM									

										Chloride																			
										BTEX																			
										TBN Ext																			

Relinquished By: <i>[Signature]</i> Date: <i>3-13-24</i> Received By: <i>[Signature]</i> Date: <i>3-13-24</i>										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:									
Relinquished By: <i>[Signature]</i> Date: <i>3-13-24</i> Received By: <i>[Signature]</i> Date: <i>3-13-24</i>										Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:									
Delivered By: (Circle One) <i>UPS</i> <i>Bus</i> <i>Other</i>										Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No									
Checked By: (Initials) <i>[Initials]</i>										REMARKS:									

PO Box 805
Hobbs, NM 88241
575-397-6388

Liner Inspection Report

Operator: OXY

Site Name: Sundance4-32 SWD

Leak Date: 1/20/2021 & 1/20/2022

Inspection Date: 2/29/2024

Inspection Results:

Liner Integrity: Good ☒ Bad ☐

Debris Removal: Yes ☒ No ☐

Remediation Activities:

Gravel Removal: Yes ☒ No ☐

Power Wash: Yes ☐ No ☐

Closure Photos: ☒

Inspected By: ROGELIO Limas

Date: 2/28/2024

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QUESTIONS

Action 353711

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	353711
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2103556268
Incident Name	NAPP2103556268 SUNDANCE 4-32 SWD @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2126648179] SUNDANCE FED 04-32 SWD

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SUNDANCE 4-32 SWD
Date Release Discovered	01/20/2021
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Treating Tower Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Treating Tower Produced Water Released: 59 BBL Recovered: 40 BBL Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 353711

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	353711
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/13/2024
--	---

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QUESTIONS, Page 3

Action 353711

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	353711
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	336
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0.1
GRO+DRO	(EPA SW-846 Method 8015M)	10
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.5

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/12/2024
On what date will (or did) the final sampling or liner inspection occur	03/13/2024
On what date will (or was) the remediation complete(d)	04/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	18172
What is the estimated volume (in cubic yards) that will be reclaimed	876
What is the estimated surface area (in square feet) that will be remediated	18172
What is the estimated volume (in cubic yards) that will be remediated	876

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 353711

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 353711
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/13/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 353711

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 353711
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 353711

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	353711
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	322756
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2024
What was the (estimated) number of samples that were to be gathered	131
What was the sampling surface area in square feet	18172

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	18172
What was the total volume (cubic yards) remediated	876
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	18172
What was the total volume (in cubic yards) reclaimed	876
Summarize any additional remediation activities not included by answers (above)	OXY excavated the spill area as depicted on the following site diagram. The leak area near SP1 (PURPLE shade on diagram) was excavated to a depth of 3 feet. The leak area near SP2 – SP8, SP10 – SP12 and SP14 (YELLOW shade on diagram) was excavated to a depth of 1 foot. The leak area near SP9 (BLUE shade on diagram) was excavated to a depth of 4 feet. The leak area near SP13 (GREEN shade on diagram) was excavated to a depth of 2 feet. Bottom and sidewall confirmation samples was collected at no greater than 200 square ft. intervals.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/13/2024
--	---

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QUESTIONS, Page 7

Action 353711

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 353711
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 353711

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	353711
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	6/26/2024