# **Closure Report**

2RP-5468 & 2RP-5515

Site Description					
Site Name:	Sundance 4-32 SWD Facility	Incident ID: NAB1915530465 (4/1/19)			
Company:	Oxy, Permian	Incident ID: NAB1918654291 (5/2/19)			
Legal Description:	U/L D, Section 4, T24S, R31E				
County:	Eddy County, NM				
GPS Coordinates:	N 32.25188 W 103.79005				

Release Data				
Date of Release:	4/1/2019 & 5/2/2019			
Type of Release:	Produced water (both leaks)			
Source of Release:	Nipple broke off pressure guage/Nipple failure on discharge side of triplex pump			
Volume of Release:	40 bbls 70 bbls			
Volume Recovered:	39 bbls 69 bbls			

Remediation Specifications				
Remediation	Excavated SP1, SP6, SP7, & SP11 to a depth of 4 feet. Excavated SP2 to			
Parameters:	a depth of 3 feet. Excavated SP3 to a depth of 1 foot. Excavated SP4 & SP5			
	to a depth of 2 feet. Zero remediation was required for SP8, SP9, or SP10.			
	Bottom and sidewall confirmation samples obtained. Backfilled entire site.			
Remediation Activities:	4/16/20 to 7/21/20			
Plan Sent to OCD:	8/13/2019 Email from Cliff Brunson to Victoria Venegas			
OCD Approval of Plan:	8/15/2019 Email from Victoria Venegas to Wade Dittrich			

Plan Sent to OCD:	8/13/2019 Email from Cliff Brunson to Victoria Venegas
OCD Approval of Plan:	8/15/2019 Email from Victoria Venegas to Wade Dittrich
Plan Sent to BLM:	11/18/2019 Email from Cliff Brunson to Jim Amos
BLM Approval of Plan:	11/19/2019 Email from Jim Amos to Cliff Brunson
	•

Supporting Documentation					
Initial C-141	signed and included	ned and included			
C-141, page 6	signed and included	igned 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 6/18/20 to 6/20/20				
Depth to Groundwater	USGS Info				

## **Request for Closure**

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

7/27/2020

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

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1915530465			
District RP	2RP-5468			
Facility ID	fAB1915530010			
Application ID	pAB1915530169			

## **Release Notification**

## **Responsible Party**

OGRID

Responsible	Party	OXY USA INC.				16696		
Contact Nam	ie	WADE DITTRICH			Telephone	(575) 390-2828		
Contact ema	Contact email WADE_DITTRICH@OXY.COM				# (assigned by OCD)			
Contact mail	Contact mailing address PO BOX 4294; HOUSTON, TX 77210							
			Location o	f Release S	Source			
atitude	N 32.25	5174		Longitude		79021		
			(NAD 83 in decim	al degrees to 5 dec	rimal places)			
Site Name		SUNDANCE 4	1-32 SWD FACILI	TY Site Type	SWD			
Date Release	Discovered	4/1/19		API# (if a	pplicable) N/A			
						7.		
Unit Letter	Section	Township	Range		inty			
D	4	24S	31E	EDDY CO	UNTY, NM			
Crude Oil	Materia	(s) Released (Select al Volume Release		lculations or specif		e volumes provided below)		
Produced			ed (bbls) 40 BBLS		Volume Recovered (bbls)			
1 Todacca	water		tion of dissolved chlo	out do to do o	Volume Recovered (bbls) 39 BBLS			
		produced water		oride in the	n the Yes No			
Condensa	te	Volume Released (bbls)			Volume Reco	Volume Recovered (bbls)		
☐ Natural G	as	Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)			nits)	Volume/Weight Recovered (provide units)				
G OD I								
Cause of Rele		0- DD <b>-</b> 00		011 A <b>T</b> DIDI		01151115		
MIPPLE BI	KUKE OF	-F OF PRESS	SURE GAUGE	JN A TRIPI	LEX INJECTI	ON PUMP		

# State of New Mexico Oil Conservation Division

Incident ID	NAB1915530465
District RP	2RP-5468
Facility ID	fAB1915530010
Application ID	pAB1915530169

Was this a major release as defined by	, , ,	nsible party consider this a major release?				
19.15.29.7(A) NMAC?	THE RELEASE IS GREATER T	HAN 25 BBLS				
Yes No						
163 🗀 110						
If YES, was immediate no	otice given to the OCD? By whom? To wl	nom? When and by what means (phone, email, etc)?				
	YES, BY WADE DITTRICH TO MIKE BRATCHER OF NMOCD, JIM AMOS AND CRYSTAL WEAVER OF THE BLM VIA EMAIL ON 5/23/19 AT 10:30 AM					
	Initial R	esponse				
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury				
■ The source of the rele	ease has been stopped.					
The impacted area ha	s been secured to protect human health and	the environment.				
Released materials ha	eve been contained via the use of berms or o	likes, absorbent pads, or other containment devices.				
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.				
If all the actions described	d above have <u>not</u> been undertaken, explain	why:				
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence r	emediation immediately after discovery of a release. If remediation				
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred				
		please attach all information needed for closure evaluation.				
regulations all operators are	required to report and/or file certain release noti	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger				
		CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In				
		responsibility for compliance with any other federal, state, or local laws				
Printed Name: Wade Dittrich Title: Environmental Coordinator						
	Signature: Nacle Little Date: 5-30-19					
email: wade_dittrich@oxy.com Telephone: (575) 390-2828						
OCD Only						
Received by: Date:						

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

Responsible Party

OXY USA INC.

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1918654291			
District RP	2RP-5515			
Facility ID	fAB1915530010			
Application ID	pAB1918653243			

16696

## **Release Notification**

## **Responsible Party**

OGRID

Contact Name WADE DITTRICH			Contact Telephone (575) 390-2828					
Contact email WADE_DITTRICH@OXY.COM			Incident # (assigned by OCD)					
Contact mai	Contact mailing address PO BOX 4294; HOUSTON, TX				77210			
118	Location of Release Source							
Latitude	Latitude N 32.25188 Longitude W-103.79005						.79005	
			(NAD 83 in dec		grees to 5 decim	al places)		
Site Name		SUNDANCE 4	-32 SWD FACI	LITY	Site Type	SWD		
Date Release	Discovered	5/2/19			API# (if appl	icable) N/A		
Unit Letter	Section	Township	Range		Count	v	7	
D	4	24S	31E	ED	DY COU		1	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	
Surface Owne	r: State	■ Federal ☐ Tr	ibal Private ( <i>N</i>	Vame:	· ————		)	
			Nature and	l Vol	ume of R	Release		
	Materia			calculati	ons or specific		e volumes provided below)	
Crude Oi		Volume Release				Volume Recovered (bbls)		
Produced	Water		d (bbls) 70 BBL			Volume Recovered (bbls) 69 BBLS		
	Is the concentration of dissolved chloride produced water >10,000 mg/l?			hloride	in the	■ Yes □ No		
Condensa	ite	Volume Released (bbls)				Volume Recovered (bbls)		
Natural C	ias	Volume Released (Mcf)				Volume Recovered (Mcf)		
Other (de	Other (describe) Volume/Weight Released (provide units)				Volume/Wei	ght Recovered (provide units)		
Cause of Release								
NIPPLE FAILURE ON DISCHARE SIDE OF TRIPLEX PUMP								

# State of New Mexico Oil Conservation Division

Incident ID	NAB1918654291
District RP	2RP-5515
Facility ID	fAB1915530010
Application ID	pAB1918653243

Was this a major	If YES, for what reason(s) does the respor	sible party consider this a major release?
release as defined by	THE RELEASE IS GREATER T	HAN 25 BBLS
19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
		F NMOCD, JIM AMOS AND CRYSTAL WEAVER
OF THE BLM VIA E	MAIL ON 5/07/19 AT 3:43 PM	Time 05, 01117 (III 07) (IVE VIE) (VE)
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area has	s been secured to protect human health and	he environment.
Released materials ha	eve been contained via the use of berms or d	kes, absorbent pads, or other containment devices.
NAME OF TAXABLE PARTY.	ecoverable materials have been removed and	
If all the actions described	d above have not been undertaken, explain v	hv:
has begun, please attach a	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are republic health or the environmental failed to adequately investigated addition, OCD acceptance of and/or regulations.	required to report and/or file certain release notifient. The acceptance of a C-141 report by the Oate and remediate contamination that pose a threa a C-141 report does not relieve the operator of reaching the contamination of relieve the operator of relieve the operato	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Wade	Dittrich	Title: Environmental Coordinator
Signature:	le Stud	Date: 6-2519
email: wade_dittric	ch@oxy.com	Telephone: (575) 390-2828
		4
OCD Only	*	
Received by:		Dotat
		Date:

# State of New Mexico Oil Conservation Division

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

Incident ID	NAB1915530465
District RP	2RP-5468
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.

A scaled site and sampling diagram as described in	19.15.29.11 NMAC
Photographs of the remediated site prior to backfill must be notified 2 days prior to liner inspection)	I or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appro	priate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or may endanger public health or the environment. The acc should their operations have failed to adequately investig human health or the environment. In addition, OCD accompliance with any other federal, state, or local laws an restore, reclaim, and re-vegetate the impacted surface are	and complete to the best of my knowledge and understand that pursuant to OCD rules of file certain release notifications and perform corrective actions for releases which reptance of a C-141 report by the OCD does not relieve the operator of liability gate and remediate contamination that pose a threat to groundwater, surface water, reptance of a C-141 report does not relieve the operator of responsibility for door regulations. The responsible party acknowledges they must substantially set to the conditions that existed prior to the release or their final land use in on to the OCD when reclamation and re-vegetation are complete.  Title: Environmental Coordinator  Date: 67-6-2020  Telephone: (575) 390-2828
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsive remediate contamination that poses a threat to groundwate party of compliance with any other federal, state, or local	sible party of liability should their operations have failed to adequately investigate and er, surface water, human health, or the environment nor does not relieve the responsible laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

# State of New Mexico Oil Conservation Division

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

must be notified 2 days prior to liner inspection)

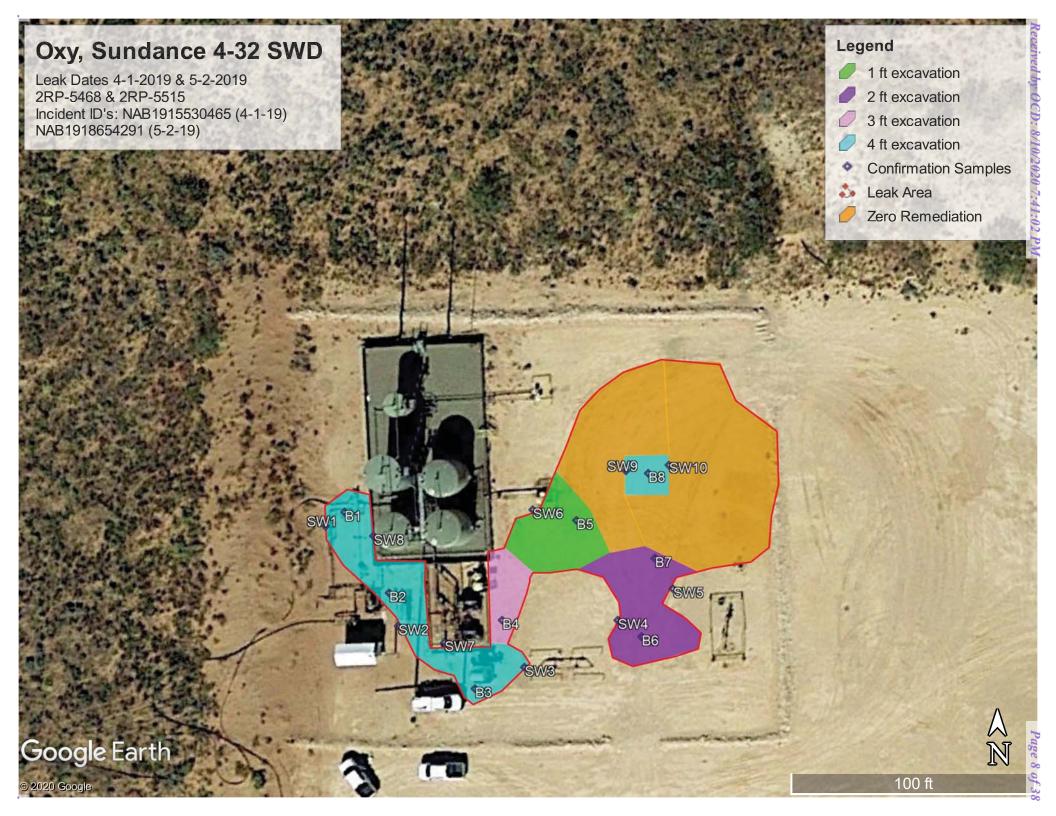
Incident ID	NAB1918654291	
District RP	2RP-5515	
Facility ID		
Application ID		

## 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.

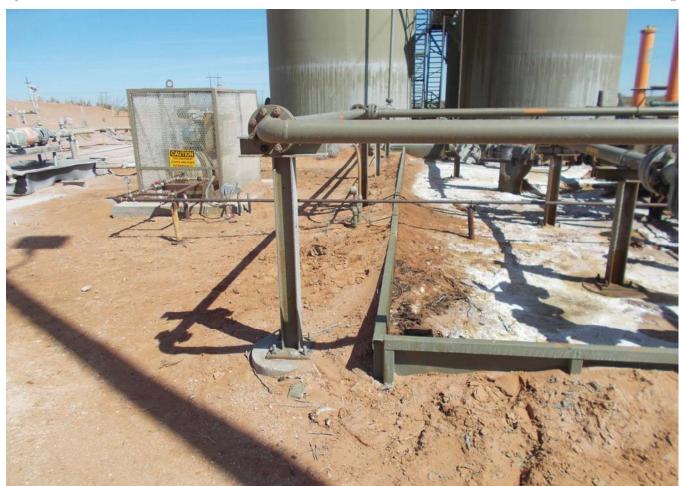
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office

Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC	dediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: Male With	Date: 8-6-7020
email: wade_dittrich@oxy.com	Date: 8-6-7020 Telephone: (575) 390-2828
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party or remediate contamination that poses a threat to groundwater, surface we party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by:	Date:
Printed Name:	Title:



























# Laboratory Analytical Results Summary Sundance 4-32 SWD Facility (4/1/19 and 5/2/19) Confirmation Samples

		Sample ID	SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8
Analyte	Method	Date	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050	< 0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		384	96.0	384	384	80.0	80.0	80.0	64.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10
Analyte	Method	Date	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	<0.300	<0.300	<0.300	<0.300	<0.300	< 0.300	<0.300	<0.300
Chloride	SM4500CI-B		368	256	64.0	32.0	160	16.0	144	80.0	64.0	65.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0



June 10, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 4-32 SWD FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/20 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

DTEV 0021D

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

ma/ka

Sample ID: SP 1 (H001548-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	124 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	134 %	6 42.2-15	6						

Analyzed By me

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

RTFY 8021R

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Analyzed By: me

Sample Received By:

Jodi Henson

Project Location:

OXY - EDDY CO NM

ma/ka

#### Sample ID: SP 2 (H001548-02)

BIEX 8021B	тд/кд		Anaiyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	119 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	132 9	% 42.2-15	6						
-									

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\*=Accredited Analyte

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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:

BTEX 8021B

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

mg/kg

127 %

42.2-156

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Project Location: OXY - EDDY CO NM

Sample Received By:

Jodi Henson

Sample ID: SP 3 (H001548-03)

DIEX COLLE	g/ kg		Analyzou Byr mo						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Analyzed By: ms

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

Sample Received By:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

#### Sample ID: SP 4 (H001548-04)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	117 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126 %	6 42.2-15	6						

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\*=Accredited Analyte

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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:

RTFY 8021R

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

ma/ka

Sample ID: SP 5 (H001548-05)

BIEX 8021B	mg/kg		Anaiyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	122 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	134 9	% 42.2-15	6						

Analyzed By: me

#### Cardinal Laboratories

\*=Accredited Analyte

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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:

RTFY 8021R

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Sample Received By:

Jodi Henson

Project Location:

OXY - EDDY CO NM

ma/ka

#### Sample ID: SP 6 (H001548-06)

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	119	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130	% 42.2-15	6						

Analyzed By: me

#### Cardinal Laboratories

\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Sample Received By:

Jodi Henson

Project Location:

OXY - EDDY CO NM

#### Sample ID: SP 7 (H001548-07)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	121 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	138 %	6 42.2-15	6						

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\*=Accredited Analyte

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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:

RTFY 8021R

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Sample Received By:

Jodi Henson

Project Location:

OXY - EDDY CO NM

ma/ka

#### Sample ID: SP 8 (H001548-08)

BIEX 8021B	mg/	кg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	123 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	138 9	% 42.2-15	6						

Analyzed By: me

#### Cardinal Laboratories

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#### Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

#### Sample ID: SW 1 (H001548-09)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	111	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	124	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

Sample ID: SW 2 (H001548-10)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/10/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	115 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130 %	6 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Sample Received By:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

#### Sample ID: SW 3 (H001548-11)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/10/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	118	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	132	% 42.2-15	6						

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\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Sample Received By:

Jodi Henson

Project Location:

OXY - EDDY CO NM

#### Sample ID: SW 4 (H001548-12)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/10/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	121 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135 9	% 42.2-15	6						

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\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

Sample ID: SW 5 (H001548-13)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/10/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	124 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	140 %	6 42.2-15	6						

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\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Sample Received By:

Jodi Henson

Project Location:

OXY - EDDY CO NM

#### Sample ID: SW 6 (H001548-14)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/10/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	121	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	134	% 42.2-15	6						

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\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition:

Cool & Intact

Project Number:

(5-2-19)

Sample Received By:

Jodi Henson

Project Location:

OXY - EDDY CO NM

#### Sample ID: SW 7 (H001548-15)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/10/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	122 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	136 9	% 42.2-15	6						

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\*=Accredited Analyte

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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:

RTFY 8021R

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

ma/ka

Sample ID: SW 8 (H001548-16)

BIEX 8021B	mg/	кд	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	117 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	128 %	% 42.2-15	6						
~									

Analyzed By: me

#### Cardinal Laboratories

\*=Accredited Analyte

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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:

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

Sample ID: SW 9 (H001548-17)

OXY - EDDY CO NM

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BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Toluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/10/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	122	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	139	% 42.2-15	6						

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\*=Accredited Analyte

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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:

RTFY 8021R

06/09/2020

Sampling Date:

06/08/2020

Reported:

06/10/2020

Sampling Type:

Soil

Project Name:

SUNDANCE 4-32 SWD FACILITY

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

(5-2-19)

Project Location:

OXY - EDDY CO NM

ma/ka

#### Sample ID: SW 10 (H001548-18)

31EX 8021B	mg/	кд	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2020	ND	1.85	92.3	2.00	5.68	
Γoluene*	<0.050	0.050	06/09/2020	ND	1.98	99.2	2.00	6.15	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.89	94.3	2.00	6.14	
Fotal Xylenes*	nes* <0.150 0.150		06/09/2020	ND	5.83	97.2	6.00	5.19	
Total BTEX	<0.300	0.300	06/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (P.	ID 108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/10/2020	ND	400	100	400	3.92	
ГРН 8015М	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	199	99.4	200	7.88	
ORO >C10-C28*	<10.0	10.0	06/09/2020	ND	210	105	200	9.05	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					
Surrogate: 1-Chlorooctane	122 %	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	137 9	% 42.2-15	6						

Analyzed By: me

#### Cardinal Laboratories

\*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.								Т		-	3/L	L TO					ANALYSIS REQUEST									
Project Manage	of Managers Cliff Desires									t:				_		Т	_	ANA	LYSI	SRI	QUE	ST				
Address: P.O	P O Roy 805										0)	VV		1		1	1	1				1				
City: Hobbs	Hobbs NIM													1				1	1	1						
Phone #: 575-	007 0000	5-39								WA	\DE			1			1			1		1	1 1			
Project #:					-				ddre	SS:				1			1									
	oject #: Project Owner: Oxy oject Name: Sundance 4-32 SWD (5-2-19)								ity:					1	1		1					1				
	n: Eddy County, NM				_				tate:		Z	ip:		1	1		1									
Sampler Name:	CC+100525 7510 12 CV							-	hone					1			1		1		1	1				
FOR LAB USE ONLY	Sillion Relidon	_	_	_		=		F	ax #:		_			J					1		1					
		۵		$\vdash$		MAT	RIX	T	PRI	ESER	v.	SAMPL	ING	1							1					
Lab I.D. Н <i>ОО</i> 1548	Sample I.D.	(G)RAB OR (C)ON	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME	CL	втех	трн ехт										
1	SP1	6	1	L		1				1		/8/20	8:45 AM	1	1	1							-	$\overline{}$		
2	SP2	П	h	L		1				1	6/	/8/20	8:57 AM	1	1	1					-		-			
3	SP3	П	Ш	L							6/	/8/20	9:10 AM	1	1	1							-	-		
	SP4	Ш	П	L							6/	/8/20	9:19 AM	1	1	1							-	-		
7	SP5	Ш	Ш	L							6/	/8/20	9:32 AM	1	1	1							-			
	SP6	Ш	Ш								6/	8/20	9:47 AM	1	1	1							-	-		
	SP7	Ш	П								6/	8/20	10:04 AM	1	1	1							-	-		
	SP8	11	П								6/	8/20	10:32 AM	1	1	1							-	-		
	SW1	Ш	Ш								6/	8/20	10:49 AM	1	1	1				-			-			
	SW2 d Damages Cardinal's liability and client's exclusive remedy for g those for negligence and any other cause whatsnesser shall be	1	1			4				1	6/8	8/20	11:17 AM	1	1	/							_			

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in contract of tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	Date:   9/2/ Time: 2:10	Received By:		Phone Result: Fax Result: REMARKS:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date: Time:	Received By:			P	1	. _	
Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	0.50	Sample Condition Cool Intact Yes 17 Yes No No	CHECKED BY: (Initials)			NC		

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

Relinquished By:

Delivered By: (Circle One)

(E)	,	
	ARDINAL LABORATOR	IES
1,200	101 East Marland, Hobbs, NM	8824

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Z of 2

Company Name: BBC International, Inc.										В	ILL TO		ANALYSIS REQUEST												
									P.O. #:						Т	T	1	T	-	T	<u> </u>				
Address: P.O. Box 805										ny:	OXY		1												
ou Hobbs - NM seeds										WA			1												
Phone #: 575-		5-39							dres		JE		1	1		1	1	i							
Project #:	Project Own	er: O	ху					Cit	v:				1	1											
Project Name:	Sundance 4-32 SWD (5-2-19)							Sta			Zip:		1	1											
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FOR LAB USE ONLY		Т	Т		N	IATRI				SER	/ SAMP	LING	1	1											
Lab I.D. HDD1548	Sample I.D.	(G)RAB OR (C)ON	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	DATE	TIME	CL	втех	трн ехт										
- 11	SW3	G	1			l				1	6/8/20	11:36 AM	<b>✓</b>	1	1								$\neg$		
12	SW4	11	н				Ш			1	6/8/20	11:55 AM	1	1	1										
	SW5 SW6	Ш	н		-	4		_			6/8/20	12:43 PM	✓	1	1										
	SW7	H	Н	L			Ш	_			6/8/20	1:12 PM	✓	1	1										
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analyses. All claims includin service. In no event shall Ca	d Damages. Cardina's liability and client's exclusive remedy for g those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includin g out of or related to the performance of services hereunder by Cater Cardinal Cardina Cardinal Cardinal Cardinal Cardinal Cardina Cardinal Cardin	deemer g withou Cardinal	d waive	ed unle tion, b dless o	ss mad usiness if wheth	e in writi	ng and	receiv	-	lane of	en Film (manufactured by	with the last of the last of	ries, e	bie Ye		No		Phone #							

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

Sample Condition