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APPROVED NMOCD RP 4428

By Kristen Lynch at 11:17 am, Nov 10, 2016

OXY – LIVINGSTON RIDGE 19 FEDERAL #1 CTB (8/26/16)

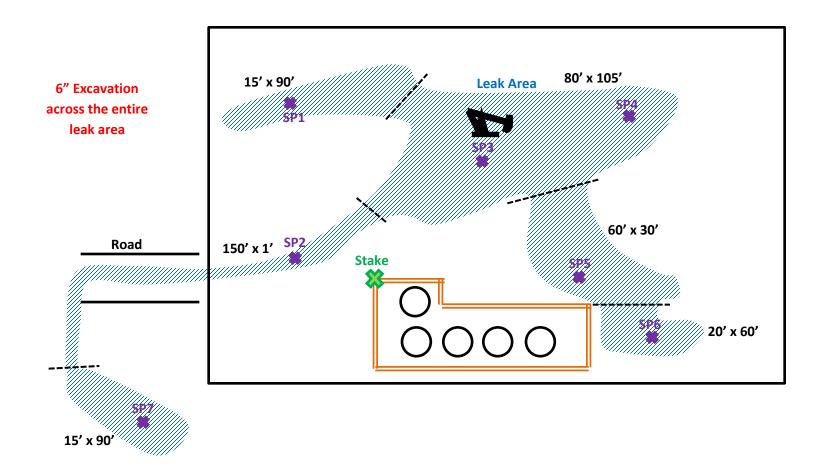
REMEDIATION PLAN

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 6 inches. The entire site will then be backfilled with clean soil.

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

N 1

Oxy
Livingston Ridge 19 Federal #1 CTB (8/26/16)



U/L D, Section 19, T22S, R32E

Lea County, NM

N 32.38219° W 103.72215°

API# 30-025-32677

BBC International, Inc.					
0	ху				
Livingston Ridge	19 Federal #1 CTB				
Date: 08/31/2016	DRWG by: K. Purvis				
NOT TO SCALE	File: Oxy 2016				



Groundwater Plot

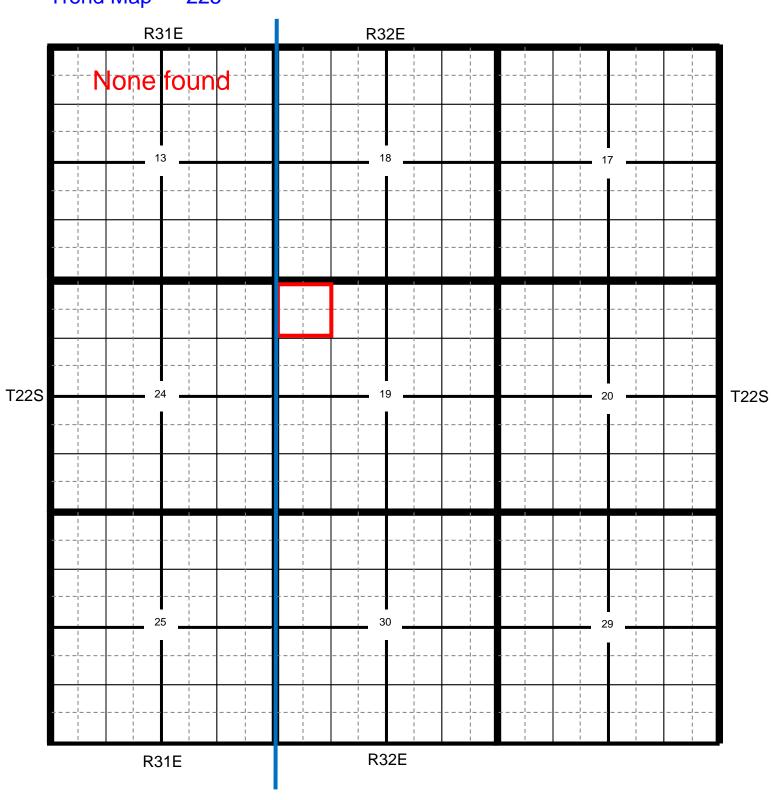
Oxy Livingston Ridge 19 Federal #1 CTB

CountyUnit LetterSectionTownshipRangeLeaD1922S32E

Trend Map 225'

Location

OCD



USGS

SEO

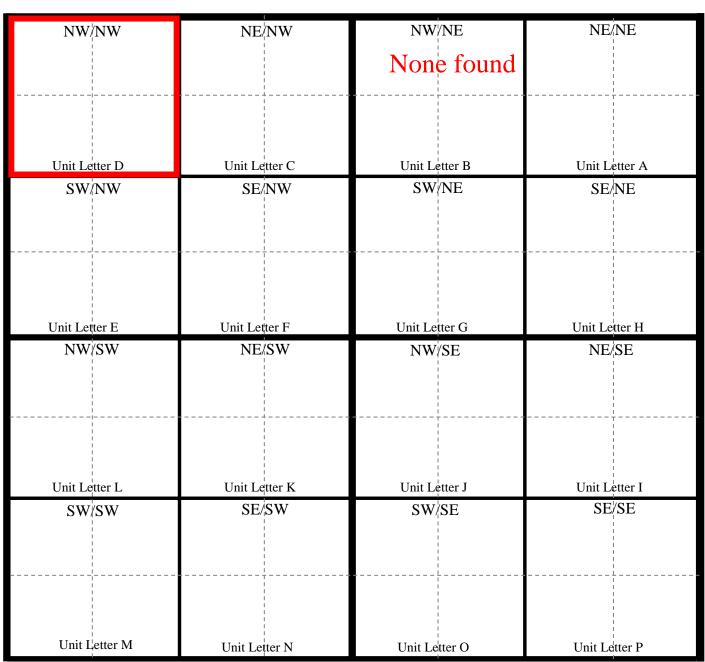
All Databases

Oxy Livingston Ridge 19 Fed #1 CTB

CountyUnit LetterSectionTownshipRangeLeaD1922S32E

Trend Map 225'

1 2



3

Laboratory Analytical Results Summary Livingston Ridge 19 Federal #1 CTB

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.151	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		13200	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.128	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		4000	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.096	0.062
Ethylbenzene	BTEX 8021B		0.175	< 0.050
Total Xylenes	BTEX 8021B		0.655	<0.150
Total BTEX	BTEX 8021B		0.925	< 0.300
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		20400	23.3

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.119	< 0.050
Ethylbenzene	BTEX 8021B		0.085	< 0.050
Total Xylenes	BTEX 8021B		0.259	< 0.150
Total BTEX	BTEX 8021B		0.463	< 0.300
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		15800	<10.0

		Sample	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.295	< 0.050
Ethylbenzene	BTEX 8021B		0.479	< 0.050
Total Xylenes	BTEX 8021B		1.61	<0.150
Total BTEX	BTEX 8021B		2.38	< 0.300
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		25200	<10.0

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.313	< 0.050
Ethylbenzene	BTEX 8021B		0.506	< 0.050
Total Xylenes	BTEX 8021B		1.66	<0.150
Total BTEX	BTEX 8021B		2.48	< 0.300
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		25300	<10.0

		Sample	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	10/4/16	10/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.245	< 0.050
Ethylbenzene	BTEX 8021B		0.382	< 0.050
Total Xylenes	BTEX 8021B		1.34	<0.150
Total BTEX	BTEX 8021B		1.97	< 0.300
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		23300	<10.0



October 10, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LIVINGSTON RIDGE 19 FEDERAL #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/05/16 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 1 @ SURFACE (H602247-01)

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	10/07/2016	ND	2.19	109	2.00	1.20	
Toluene*	0.151	0.050	10/07/2016	ND	2.23	112	2.00	1.19	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	1.45	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.50	108	6.00	1.43	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	13200	100	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	91.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	653 9	% 28-171	,						

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 1 @ 1' (H602247-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.6-14	0						
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	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	<10.0	10.0	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	108 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	109 9	% 28-171							

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 2 @ SURFACE (H602247-03)

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	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	0.128	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	4000	50.0	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	93.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	262	% 28-171	,						

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 2 @ 1' (H602247-04)

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	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.6-14	0						
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	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	<10.0	10.0	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	90.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	95.9	% 28-171							

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 3 @ SURFACE (H602247-05)

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	10/08/2016	ND	2.18	109	2.00	1.67	
Toluene*	0.096	0.050	10/08/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	0.175	0.050	10/08/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	0.655	0.150	10/08/2016	ND	6.49	108	6.00	2.83	
Total BTEX	0.925	0.300	10/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	20400	100	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	117 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	886	% 28-171	•						

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 3 @ 1' (H602247-06)

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	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	0.062	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.6-14	0						
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	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	23.3	10.0	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	87.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	91.8	% 28-171							

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 4 @ SURFACE (H602247-07)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	0.119	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	0.085	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	0.259	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	0.463	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.6-14	0						
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	15800	100	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	115 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	696	% 28-171	!						

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BBC International, Inc.

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Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 4 @ 1' (H602247-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.6-14	0						
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	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	<10.0	10.0	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	97.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	88.2	% 28-171							

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 5 @ SURFACE (H602247-09)

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	10/08/2016	ND	2.18	109	2.00	1.67	
Toluene*	0.295	0.050	10/08/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	0.479	0.050	10/08/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	1.61	0.150	10/08/2016	ND	6.49	108	6.00	2.83	
Total BTEX	2.38	0.300	10/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	6 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	25200	100	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	116 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	1140	% 28-171							

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 5 @ 1' (H602247-10)

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	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.6-14	0						
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	10/06/2016	ND	190	94.9	200	2.35	
DRO >C10-C28	<10.0	10.0	10/06/2016	ND	207	104	200	1.48	
Surrogate: 1-Chlorooctane	77.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	86.4	% 28-171							

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 6 @ SURFACE (H602247-11)

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	10/08/2016	ND	2.18	109	2.00	1.67	
Toluene*	0.313	0.050	10/08/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	0.506	0.050	10/08/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	1.66	0.150	10/08/2016	ND	6.49	108	6.00	2.83	
Total BTEX	2.48	0.300	10/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/06/2016	ND	193	96.5	200	0.362	
DRO >C10-C28	25300	100	10/06/2016	ND	212	106	200	1.53	
Surrogate: 1-Chlorooctane	105 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	1180	% 28-171	1						

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 6 @ 1' (H602247-12)

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	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	<0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.6-14	0						
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	10/06/2016	ND	193	96.5	200	0.362	
DRO >C10-C28	<10.0	10.0	10/06/2016	ND	212	106	200	1.53	
Surrogate: 1-Chlorooctane	91.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	95.6	% 28-171							

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 7 @ SURFACE (H602247-13)

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	10/08/2016	ND	2.18	109	2.00	1.67	
Toluene*	0.245	0.050	10/08/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	0.382	0.050	10/08/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	1.34	0.150	10/08/2016	ND	6.49	108	6.00	2.83	
Total BTEX	1.97	0.300	10/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 %	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/07/2016	ND	193	96.5	200	0.362	
DRO >C10-C28	23300	100	10/07/2016	ND	212	106	200	1.53	QM-07, QR-03
Surrogate: 1-Chlorooctane	117 %	% 35-147	7						
Surrogate: 1-Chlorooctadecane	1020	% 28-171	,						

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 10/05/2016 Sampling Date: 10/04/2016

Reported: 10/10/2016 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE 19 FEDERAL #1 CTE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 7 @ 1' (H602247-14)

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	10/07/2016	ND	2.18	109	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2016	ND	2.23	112	2.00	2.26	
Ethylbenzene*	< 0.050	0.050	10/07/2016	ND	2.16	108	2.00	2.55	
Total Xylenes*	<0.150	0.150	10/07/2016	ND	6.49	108	6.00	2.83	
Total BTEX	<0.300	0.300	10/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4 9	% 73.6-14	0						
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	10/07/2016	ND	193	96.5	200	0.362	
DRO >C10-C28	<10.0	10.0	10/07/2016	ND	212	106	200	1.53	
Surrogate: 1-Chlorooctane	105 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	109 %	6 28-171							

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Notes and Definitions

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

matrix interference's.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.	क्यान ५०	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company:	
City: Hobbs State: NM Zip: 88241	Attn:	

	(303) 393-2320 FAA (303) 393	00) 333-2410	ı	١	١	ı	ı	ı	ı	ı	ı	ı	ı	ı			l	ı	١	ı	l	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	1	1	1	1	١	1	1		1	1
Company Name:	BBC International, Inc.	Inc.						- 17	2111				8		BILL TO		1	1	ı	1	1	۱,	ANALYSIS	J≥	1'≺	8	ł۷	R	42	REQUEST	100	S	ı¬	-	1	1		1	1	1	上
Project Manager:	: Cliff Brunson								-	0	P.O. #:						_												_												-
Address: P.O.	P.O. Box 805								_	on on	pa	Company:																													
city: Hobbs		State: NM Zip:		88241	41				_	Attn:							_																						_		
Phone #: 575-397-6388		Fax #: 575-397-0397	7-0	39	7				_	do	Address:	S	100	5								7.																			
Project #:		Project Owner: Oxy	ž						_	City:				Mar.																									100		
Project Name: L	Project Name: Livingston Ridge 19 Federal #1 CTB	ederal #1 CTB							10	State:				Zip:	D.									1													A T				
Project Location:	: Leas County, NM								_	ř	Phone #:	#	1																								11/11/		100		
Sampler Name:	Roger Hernandez	Z				2.74			-	Fax #:	#:																								NY.						
FOR LAB USE ONLY						~ ~	MATRIX	_ =	_		Ř	PRESERV	RV.		SAMPLING																										
Lab I.D.	Sample I.D.	AB OR (C)OM	NTAINERS	UNDWATER	STEWATER			DOE			D/BASE:	/ COOL	IER:			70.1	1PH	DIEN	1						THE U.S.						<u> </u>										
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	SP1 @ 1'	0	-			•	-					4		_	10/4/16 8	8:10 AM	< -				1.7						+										N.	1		1	
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8	SP4 @ 1'	9	-			•	-	-				1		_		9:26 AM	1										-		_						1						
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PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca	PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the analyses. At claims in chuding those for negligence and any other cause whateover shall be deemed varied unless analet in writing and neceived by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	s exclusive remedy for any classe whatsoever shall be deem intal damages, including with	im aris ed wain out limi	sing w ved u	hethenless, busi	made ness	ed in winterr	conti	and ans, lo	eceives of	shall ed by use,	Carr Carr or los	mited dinal s of p	withi profit	he amount paid b in 30 days after co is incurred by clien	y the client for the a ompletion of the a nt, its subsidiaries	e applicable s,																								
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

Project Manager:	anager: Cliff Brunson P.O. Box 805	ç		P.O. #:					ANALISIS REGUES
City: Hobbs		State: NM Zip:	88241	Attn:					
Phone #: 575-397-6388	_	575-	0397	Address:			_		
Project #:		Project Owner: Oxy		City:					
Project Name:	Project Name: Livingston Ridge 19 Federal #1 CTB	eral #1 CTB		State: Z	Zip:				
Project Location:	n: Leas County, NM			Phone #:					
Sampler Name:	Roger Hernandez			Fax #:					
FOR LAB USE ONLY	┒		MATRIX	PRESERV.	SAMPLING				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TOLL	BTEX		
	SP6 @ SURFACE		<	<	10/4/16 10	10:32 AM ✓	<		
77	SP6 @ 1'	0	<	<	10/4/16 10	10:38 AM	<		
27	SP7 @ SURFACE	6	<	<	10/4/16 1	11:31 AM	<		
14	SP7 @ 1'	61	•	•	10/4/16 1:	11:35 AM	<		
		-		•					
	Wister Control								
PLEASE NOTE: Liability a analyses. All claims includ service. In no event shall C	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competion of the applicable 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,	usive remedy for any claim a natsoever shall be deemed w damages, including without li	arising whether based in contra raived unless made in writing a mitation, business interruption	act or tort, shall be limited to and received by Cardinal wit ns, loss of use, or loss of pro	the amount paid by hin 30 days after co fits incurred by clien	the client for the mpletion of the appl t, its subsidiaries,	cable		
Relinquished By:	sing out of or related to the performance of services; (Control of the performance of services)	es hereunder by Cardinal, re	ceived By:	im is based upon any of the above stated	Te de	Phone Result:	□ Yes	O No	Add'l Phone #: Add'l Fax #:
Relinquished B	tas	000	Received By:	2	1	Fax Result: REMARKS:		S S	Add'l Fax #:
Delivered By Sampler - UPS	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-1.40	Sample Condition Cool Intact Pres Pres	dition CHECKED BY:	ED BY:				

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

#75

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERA'	TOR	\boxtimes	Initia	al Report	П	Final Repor
Name of Co		Oxy Permia				Contact (Casey Summers					
		ive, Midland				Telephone l	No. (575) 513	-8289				
Facility Na	me Livir	ngston Ridge	e 19 Fede	eral #1 CTB		Facility Typ	e Battery					
Surface Ow	mer BLN	М		Mineral (Owner	r API No. 3 0-025-32677*						
				LOCA	N OF REI	LEASE			30-02	5-3	5960	
Unit Letter	nit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County											
D	19	228	32E							Lea County	v NM	
]	Latitude <u>N 32.3</u>	8219°	Longitu	de <u>W 103.7221</u> 5	<u>5°</u>			, , , , , ,	
				NAT	URE	OF RELI	EASE					
Type of Relea							Release 100 bbl	s Vol	ıme R	ecovered	70 bbls	2
Source of Re	lease Ball	valve failure	on the cir	culating pump			our of Occurrence			Hour of Disc		,
Was Immedia	ite Notice G					If YES, To						
		\boxtimes	Yes	No 🗌 Not Re	quired		es, Kristen Lynch-	NMOCD; S	helly 1	Tucker-BLM	ĺ	5
By Whom?		is, BBC Inter	national			Date and H		@ 4:44 pm				
Was a Watero	ourse Reach		Yes 🛛	No		If YES, Vo	lume Impacting th	ne Watercour	se.			
If a Watercou	rse was Imp	acted, Describ	e Fully.*									
	5.20		10.500 ±5555 ∀ 01									
	12. 1	540										
Describe Caus	e of Probler	n and Remedi	ial Action	Taken.*								
Ball valve fail	ure on the ci	irculating num	ın caused	a spill of 100 bbls	e of oil	A 1/2/2000 to		111 6 7	1.1.1		8	
service.		remaining pain	ip caasea	a spin of 100 bbi.	s or on.	A vacuum m	uck recovered 70	odis of oil an	id the i	ball valve w	is put t	back into
Describe Area	Affected an	d Cleanup Ac	tion Take	en.*		***						
The affected a	rea is annroy	rimataly 200'	v 50' hat	h an and -601		20. 27. 0		2	20120			
NMOCD and t	he BLM.	ciliately 200	X 30 00t	h on and off locat	ion. Re	emediation wil	I be completed in	accordance	with a	remediation	plan a	pproved by
I hereby certify	that the inf	formation give	en above i	s true and comple	to to th	a haat of much		1 . 1.1 .				
regulations an	operators ar	e required to i	report and	or file certain rel	ease no	titications and	nerform correction	ve actions for	· ralaa	aga wiki ala	a	
public ficatur o	t the chivilor	micht. The at	cceptance	of a C-141 report	by the	NM()(1) mar	ked as "Final Ren	ort" dose not	ralia	in the amount	a C1!	1. 2124
should then op	Claudiis nav	C Tallett to att	eduatety 1	nvestigate and ren	nediote	contomination	a that wass a theman		THE PROPERTY OF THE	P		
federal, state, o	r local laws	and/or regula	tions.	ance of a C-141 re	port do	es not relieve	the operator of res	sponsibility f	or con	npliance with	n any o	other
	1						OIL CONSI	ERVATIO)N D	IVISION	J	
Signature:	N							21011110	211 1	1110101		
orginature.	/	_			\dashv ,	11 - 5						
Printed Name:	Casey Sur	mmers		***************************************	A	pproved by Ei	nvironmental Spec	cialist:				
Title: NM Er	vironmenta	l Advisor			A	pproval Date:		Expirati	on Da	te:		
E-mail Address	: Casev S	ummers@oxy	v.com			onditions of A	nnecele					
_/	1	1 /	COLL		-	onditions of A	.рргочаг:			Attached [
Date:	5-31-	10	Phone:	(575) 513-8289								
Attach Additio	nal Sheets	If Necessary	J						- lan			