



DELINEATION WORKPLAN

CHEVRON – LENTINI FEDERAL 1 BATTERY

(Leak Date: 1/07/18)

RP # 2RP-4581
API # 30-015-27535

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4581.

The following information includes:

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

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

Chevron will remediate the spill area as depicted on the following site diagram. The entire leak area (yellow shade on diagram) will be excavated to a depth of 4 feet. An impermeable liner will be placed in the excavation and then backfilled with clean soil.

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

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

Chevron, Lentini Federal 1 Battery

Leak date: 01/07/2018

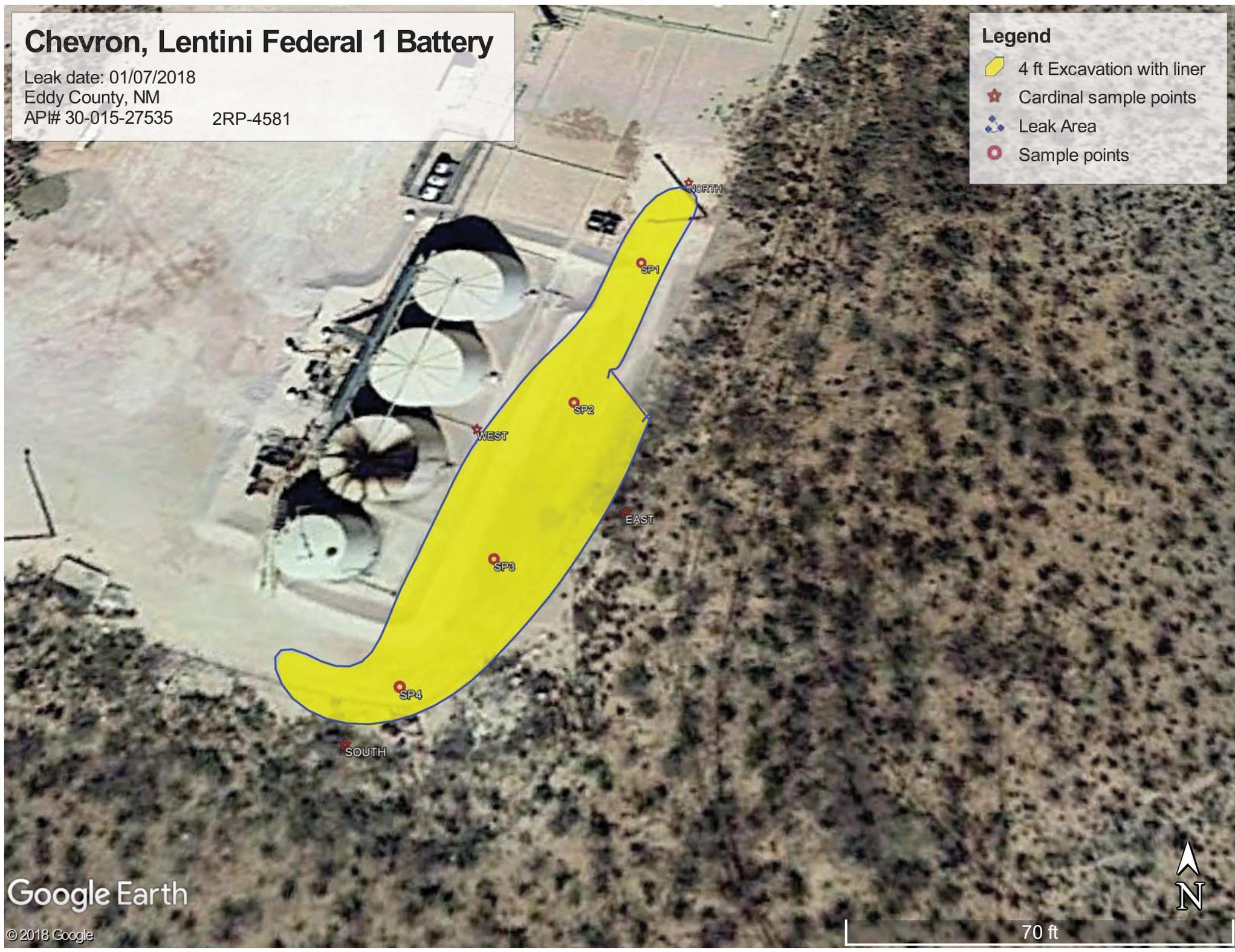
Eddy County, NM

API# 30-015-27535

2RP-4581

Legend

-  4 ft Excavation with liner
-  Cardinal sample points
-  Leak Area
-  Sample points



Chevron, Lentini Federal 1 Battery

Sample points

SP1, N 32.33716 W-104.04267

SP2, N 32.33705 W-104.04272

SP3, N 32.33694 W-104.04277

SP4, N 32.33687 W-104.04283

NORTH, N 32.33723 W-104.04263

SOUTH, N 32.33683 W-104.04286

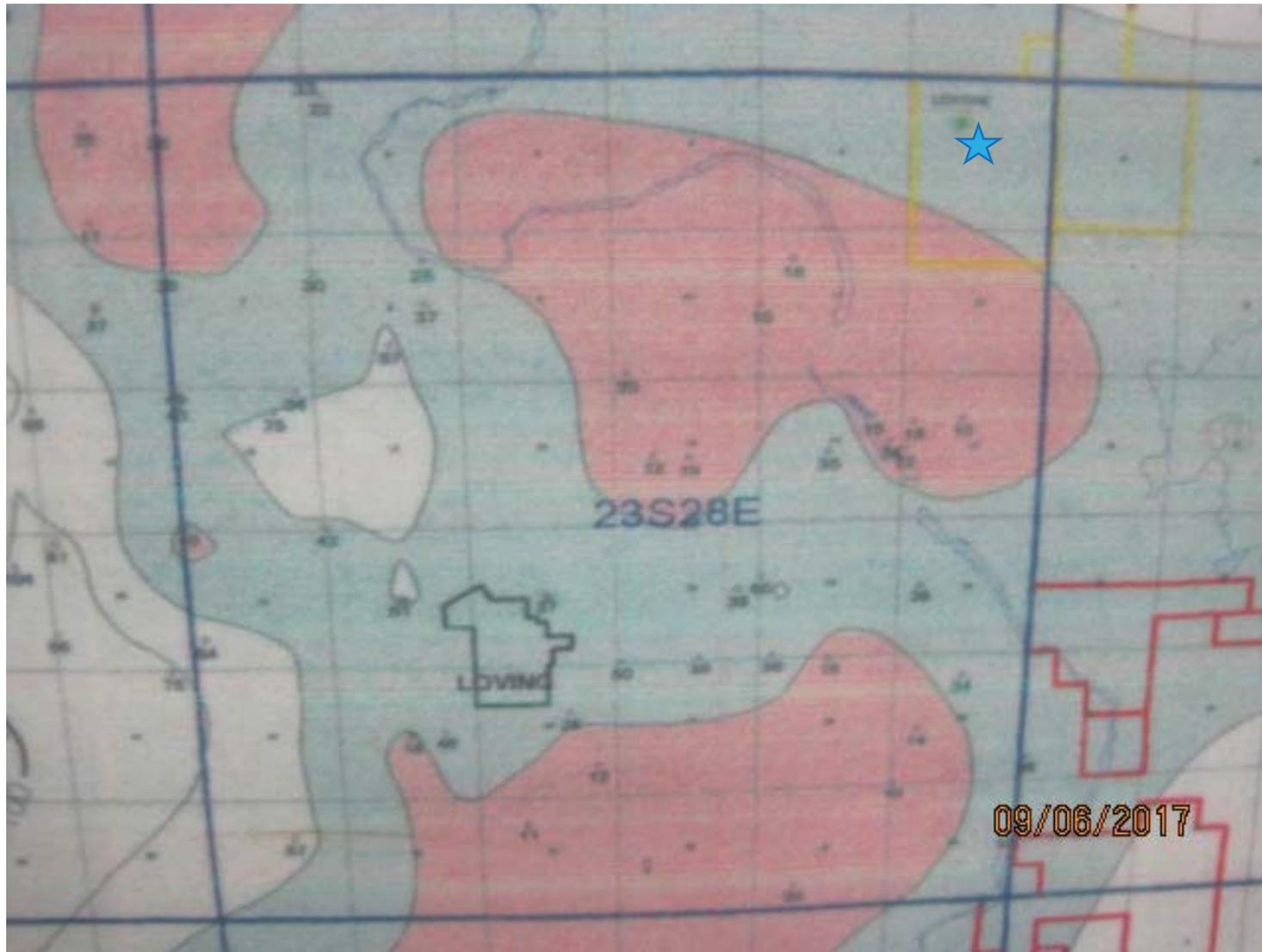
EAST, N 32.33698 W-104.04268

WEST, N 32.33703 W-104.04279

Chevron, Lentini 1 Federal Battery

U/L F, Section 1, T23S, R28E

Groundwater: <50'





New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNA83 Radius Search (in meters):

Easting (X): 590088

Northing (Y): 3578149

Radius: 1700

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

2/19/18 11:50 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: "
Latitude (Y): Degrees: ° Minutes: ' Seconds: "

UTM - NAD27

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

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X): mtrs Northing (Y): mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
Lentini Federal 1 Battery

		Sample ID	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'	SP1 @ 8'	SP1 @ 12'
Analyte	Method	Date	5/22/18	5/22/18	5/22/18	5/22/18	5/22/18	5/22/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		8660	10000	6660	3760	1600	640
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a

		Sample ID	NORTH @ SURFACE
Analyte	Method	Date	5/23/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SP2 @ 1'	SP2 @ 2'	SP2 @ 4'	SP2 @ 6'	SP2 @ 8'	SP2 @ 14'
Analyte	Method	Date	5/22/18	5/22/18	5/22/18	5/22/18	5/22/18	5/22/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		6800	8400	9160	3040	1800	592
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a

		Sample ID	SOUTH @ SURFACE
Analyte	Method	Date	5/23/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		48
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SP3 @ 1'	SP3 @ 2'	SP3 @ 4'	SP3 @ 7'	SP3 @ 9'
Analyte	Method	Date	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		3800	3200	4480	2680	400
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample ID	WEST @ SURFACE
Analyte	Method	Date	5/23/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		48
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SP4 @ 1'	SP4 @ 2'	SP4 @ 4'	SP4 @ 7'	SP4 @ 9'
Analyte	Method	Date	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		3120	3480	5330	1720	496
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample ID	EAST @ SURFACE
Analyte	Method	Date	5/23/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		48
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

June 04, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LENTINI 1 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/30/18 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/30/2018	Sampling Date:	05/22/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 1 @ 1' (H801467-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2018	ND	1.80	90.2	2.00	0.704	
Toluene*	<0.050	0.050	05/31/2018	ND	1.70	85.0	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.68	83.8	2.00	0.965	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	4.86	81.0	6.00	0.684	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	06/01/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	194	97.1	200	3.61	
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	208	104	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND					

Surrogate: 1-Chlorooctane 82.4 % 41-142
Surrogate: 1-Chlorooctadecane 79.2 % 37.6-147

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*=Accredited Analyte

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Received:	05/30/2018	Sampling Date:	05/22/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H801467-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 1 @ 4' (H801467-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 1 @ 6' (H801467-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 1 @ 8' (H801467-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 1 @ 12' (H801467-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/01/2018	ND	432	108	400	0.00	

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Received:	05/30/2018	Sampling Date:	05/22/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 2 @ 1' (H801467-07)

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	06/01/2018	ND	1.80	90.2	2.00	0.704		
Toluene*	<0.050	0.050	06/01/2018	ND	1.70	85.0	2.00	1.96		
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.68	83.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	06/01/2018	ND	4.86	81.0	6.00	0.684		
Total BTEX	<0.300	0.300	06/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	06/01/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	194	97.1	200	3.61		
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	208	104	200	2.56		
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND						

Surrogate: 1-Chlorooctane 74.5 % 41-142

Surrogate: 1-Chlorooctadecane 69.9 % 37.6-147

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Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 2 @ 2' (H801467-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 2 @ 4' (H801467-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 2 @ 6' (H801467-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 2 @ 8' (H801467-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 2 @ 14' (H801467-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/01/2018	ND	432	108	400	0.00	

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Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 3 @ 1' (H801467-13)

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	06/01/2018	ND	1.80	90.2	2.00	0.704		
Toluene*	<0.050	0.050	06/01/2018	ND	1.70	85.0	2.00	1.96		
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.68	83.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	06/01/2018	ND	4.86	81.0	6.00	0.684		
Total BTEX	<0.300	0.300	06/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	06/01/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	192	96.2	200	4.33		
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	204	102	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND						

Surrogate: 1-Chlorooctane 87.8 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/30/2018	Sampling Date:	05/23/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 3 @ 2' (H801467-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 3 @ 4' (H801467-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 3 @ 7' (H801467-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 3 @ 9' (H801467-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/01/2018	ND	432	108	400	0.00	

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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:	05/30/2018	Sampling Date:	05/23/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 4 @ 1' (H801467-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2018	ND	1.80	90.2	2.00	0.704		
Toluene*	<0.050	0.050	06/01/2018	ND	1.70	85.0	2.00	1.96		
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.68	83.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	06/01/2018	ND	4.86	81.0	6.00	0.684		
Total BTEX	<0.300	0.300	06/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	06/01/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	192	96.2	200	4.33		
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	204	102	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND						

Surrogate: 1-Chlorooctane 85.7 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/30/2018	Sampling Date:	05/23/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SP 4 @ 2' (H801467-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	06/01/2018	ND	432	108	400	0.00	

Sample ID: SP 4 @ 4' (H801467-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	06/01/2018	ND	416	104	400	0.00	QM-07

Sample ID: SP 4 @ 7' (H801467-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	06/01/2018	ND	416	104	400	0.00	

Sample ID: SP 4 @ 9' (H801467-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/01/2018	ND	416	104	400	0.00	

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

Received:	05/30/2018	Sampling Date:	05/23/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: NORTH @ SURFACE (H801467-23)

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	06/01/2018	ND	1.80	90.2	2.00	0.704		
Toluene*	<0.050	0.050	06/01/2018	ND	1.70	85.0	2.00	1.96		
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.68	83.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	06/01/2018	ND	4.86	81.0	6.00	0.684		
Total BTEX	<0.300	0.300	06/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/01/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	192	96.2	200	4.33		
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	204	102	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND						

Surrogate: 1-Chlorooctane 83.7 % 41-142

Surrogate: 1-Chlorooctadecane 81.2 % 37.6-147

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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:	05/30/2018	Sampling Date:	05/23/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: SOUTH @ SURFACE (H801467-24)

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	06/01/2018	ND	1.77	88.6	2.00	2.13		
Toluene*	<0.050	0.050	06/01/2018	ND	1.76	88.0	2.00	0.204		
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.73	86.6	2.00	1.77		
Total Xylenes*	<0.150	0.150	06/01/2018	ND	5.41	90.1	6.00	1.65		
Total BTEX	<0.300	0.300	06/01/2018	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/01/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	194	97.1	200	3.61		
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	208	104	200	2.56		
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND						

Surrogate: 1-Chlorooctane 65.2 % 41-142

Surrogate: 1-Chlorooctadecane 59.5 % 37.6-147

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Analytical Results For:

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

Received:	05/30/2018	Sampling Date:	05/23/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: WEST @ SURFACE (H801467-25)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2018	ND	1.77	88.6	2.00	2.13		
Toluene*	<0.050	0.050	06/01/2018	ND	1.76	88.0	2.00	0.204		
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.73	86.6	2.00	1.77		
Total Xylenes*	<0.150	0.150	06/01/2018	ND	5.41	90.1	6.00	1.65		
Total BTEX	<0.300	0.300	06/01/2018	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/01/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	194	97.1	200	3.61		
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	208	104	200	2.56		
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND						

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 73.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/30/2018	Sampling Date:	05/23/2018
Reported:	06/04/2018	Sampling Type:	Soil
Project Name:	LENTINI 1 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON-EDDY COUNTY, NM		

Sample ID: EAST @ SURFACE (H801467-26)

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	06/01/2018	ND	1.77	88.6	2.00	2.13	
Toluene*	<0.050	0.050	06/01/2018	ND	1.76	88.0	2.00	0.204	
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.73	86.6	2.00	1.77	
Total Xylenes*	<0.150	0.150	06/01/2018	ND	5.41	90.1	6.00	1.65	
Total BTEX	<0.300	0.300	06/01/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/01/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2018	ND	194	97.1	200	3.61	
DRO >C10-C28*	<10.0	10.0	05/31/2018	ND	208	104	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	05/31/2018	ND					

Surrogate: 1-Chlorooctane 78.1 % 41-142

Surrogate: 1-Chlorooctadecane 73.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1043

Page 15 of 17

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Cliff Brunson				P.O. #:																									
Address: P.O. Box 805				Company: <i>BBC</i>																									
City: Hobbs		State: NM		Zip: 88241		Attn: <i>J. Gilkey</i>																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																									
Project #:		Project Owner: <i>Chevron</i>		City:																									
Project Name: Lentini Federal 1 Battery				State: Zip:																									
Project Location: Eddy County, NM				Phone #:																									
Sampler Name: Roger Hernandez				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		GIRAB OR (COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CI	BTEX	TPH/EXT										
<i>H801467</i>																													
<i>1</i>		SP1 @ 1'		G	-			✓					✓		5/22/18	10:25 AM	✓	✓	✓										
<i>2</i>		SP1 @ 2'		G	-			✓					✓		5/22/18	10:50 AM	✓												
<i>3</i>		SP1 @ 4'		G	-			✓					✓		5/22/18	11:20 AM	✓												
<i>4</i>		SP1 @ 6'		G	-			✓					✓		5/22/18	11:40 AM	✓												
<i>5</i>		SP1 @ 8'		G	-			✓					✓		5/22/18	11:57 AM	✓												
<i>6</i>		SP1 @ 12'		G	-			✓					✓		5/22/18	12:38 PM	✓												
<i>7</i>		SP2 @ 1'		G	-			✓					✓		5/22/18	1:42 PM	✓	✓	✓										
<i>8</i>		SP2 @ 2'		G	-			✓					✓		5/22/18	2:02 PM	✓												
<i>9</i>		SP2 @ 4'		G	-			✓					✓		5/22/18	2:14 PM	✓												
<i>10</i>		SP2 @ 6'		G	-			✓					✓		5/22/18	2:31 PM	✓												

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Relinquished By: <i>Roger Hernandez</i>		Date: <i>5/23/18</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>5:00pm</i>		Date: <i>5-30-18</i>		Received By: <i>Tamara [Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Time: <i>12:20</i>		Time: <i>12:20</i>		Sample Condition		REMARKS:			
Delivered By: (Circle One) <i>2.6</i>		Cool Intact		CHECKED BY: (Initials) <i>TO-#75</i>					
Sampler - UPS - Bus - Other: <i>Corrected 2.55</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Page 16 of 17

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																																
Project Manager: Cliff Brunson				P.O. #:																																				
Address: P.O. Box 805				Company: <i>BBC</i>																																				
City: Hobbs		State: NM		Zip: 88241		Attn: <i>J. Gilkey</i>																																		
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																																				
Project #:		Project Owner: <i>Chevron</i>		City:																																				
Project Name: Lentini Federal 1 Battery				State: Zip:																																				
Project Location: Eddy County, NM				Phone #:																																				
Sampler Name: Roger Hernandez				Fax #:																																				
FOR LAB USE ONLY																																								
Lab I.D.		Sample I.D.		G/RAB OR (C)JOMP.	# CONTAINERS	GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME														
<i>H801467</i>																																								
<i>11</i>		<i>SP2 @ 8'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/22/18</i>		<i>2:42 PM</i>		<i>✓</i>												
<i>12</i>		<i>SP2 @ 14'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/22/18</i>		<i>3:08 PM</i>		<i>✓</i>												
<i>13</i>		<i>SP3 @ 1'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>8:50 AM</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>										
<i>14</i>		<i>SP3 @ 2'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>9:08 AM</i>		<i>✓</i>												
<i>15</i>		<i>SP3 @ 4'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>9:36 AM</i>		<i>✓</i>												
<i>16</i>		<i>SP3 @ 7'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>10:20 AM</i>		<i>✓</i>												
<i>17</i>		<i>SP3 @ 9'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>10:42 AM</i>		<i>✓</i>												
<i>18</i>		<i>SP4 @ 1'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>12:08 PM</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>										
<i>19</i>		<i>SP4 @ 2'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>12:50 PM</i>		<i>✓</i>												
<i>20</i>		<i>SP4 @ 4'</i>		<i>G</i>	<i>1</i>					<i>✓</i>								<i>✓</i>						<i>5/23/18</i>		<i>1:25 PM</i>		<i>✓</i>												

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

Relinquished By: <i>[Signature]</i>		Date: <i>5/23/18</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>5:00pm</i>		Date: <i>5-30-18</i>		Received By: <i>[Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Time: <i>12:20</i>		Date: <i>5-30-18</i>		Received By: <i>[Signature]</i>		REMARKS:			
Delivered By: (Circle One) <i>2.6c</i>				Sample Condition		CHECKED BY: (Initials) <i>TP-275</i>			
Sampler - UPS - Bus - Other: <i>Corrected 2.55c</i>				Cool <input type="checkbox"/> Yes <input type="checkbox"/> No					
				Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					

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

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

JAN 22 2018

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

NAB18021038956

OPERATOR Initial Report Final Report

Name of Company: Chevron USA Inc. <i>4323</i>	Contact: Josepha DeLeon
Address: 6301 Deauville Blvd., Midland, TX 79706	Telephone No.: 575-263-0424
Facility Name: Lentini CTB	Facility Type: Central Tank Battery
Surface Owner: Federal	Mineral Owner: Federal
API No: 30-015-27565	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	31	22S	29E	990	South	330	West	Eddy

Latitude 32.3374672 Longitude -104.0437012 NAD83

NATURE OF RELEASE

Type of Release: Spill <i>PW *</i>	Volume of Release: 39.74 barrels produced water *	Volume Recovered: 10 barrels produced water *
Source of Release: Injection line failure	Date and Hour of Occurrence: 01/06/2018; 4:00 pm	Date and Hour of Discovery: 01/07/2018; 1:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher / Crystal Weaver - email Shelly Tucker / Jim Amos - email	
By Whom? Josepha DeLeon	Date and Hour: 01/07/2018; 7:43 AM email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Injection pipeline failure. Injection line immediately isolated.		
Describe Area Affected and Cleanup Action Taken.* Produced water spill from an injection line to a road near the tank battery pad. Vacuum truck recovered 10 barrels of produced water. Remediation plan will be submitted for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <i>Josepha DeLeon</i>	OIL CONSERVATION DIVISION	
Printed Name: Josepha DeLeon	Approved by Environmental Specialist: <i>Mike Bratcher</i>	
Title: HES Specialist - Compliance Support, Environmental	Approval Date: <i>1/23/18</i>	Expiration Date: <i>N/A</i>
E-mail Address: jdx@chevron.com	Conditions of Approval: <i>See attached</i>	Attached <input type="checkbox"/> <i>2RP-4581</i>
Date: January 18, 2017	Phone: 575-263-0424	

* Attach Additional Sheets If Necessary

1/23/18 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/22/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP4581 has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 2/22/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

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

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

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

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

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

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

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

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: DeLeon, Josepha <JDXD@chevron.com>
Sent: Monday, January 22, 2018 3:17 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; 'Tucker, Shelly'; jamos@blm.gov
Cc: Barringer, Andrew J; Debeysey, Svetlana
Subject: Lentini Spill
Attachments: Lentini CTB.pdf

Attached is the initial C-141 for the spill that occurred at Lentini CTB injection line.

Josie DeLeon, HES Specialist -

Compliance Support - Environmental

Chevron - MCBU

(New Mexico, East Texas and Ft. Stockton Areas)

1616 W. Bender Blvd.

Hobbs, NM 88240

575-263-0424

432-425-1528 - cell

jdxd@chevron.com

