

State AZ Battery Flare

CLOSURE REPORT

Release Date: January 26, 2014

Unit Letter M, Section 16, Township 17 South, Range 31 East

API No. 30-015-05163

NMOCD Case #: 2R-2214

June 9, 2016

Prepared by:

Michael Burton, Environmental Operations Director Environmental Department Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

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FIGURE

1 – Soil Delineation Plat

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Linn Energy June 9, 2016

State AZ Battery Flare

1 Introduction

Linn Energy (Linn) has retained Diversified Environmental (DFSI) to address environmental issues for the site detailed herein.

The site is located southwest of Maljamar, NM, in Eddy County. An initial C-141 was submitted to the NMOCD on January 27, 2014 and approved on March 14, 2014. An amended initial C-141 is attached to reflect the change from gallons to barrels, a true representation of the release (Appendix I).

The spill site resulted from a valve heater malfunction, releasing a total of approximately 10 bbls of oil, with none recovered. The impacted area is located in the pasture, surrounding the operating flare.

2 SITE ACTIVITIES

On May 17, 2016, DFSI personnel were on site to obtain samples within the leak area (Figure 1). Six samples were obtained and field sampled for chloride levels, as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All field samples resulted in very low chloride concentrations, under NMOCD and BLM regulatory guidelines, and were submitted for laboratory analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation (Appendix II).

The site was previously scraped and backfilled with clean imported soil. Vegetation has rebounded at the site (Appendix III); therefore, no further site remediation activities are warranted.

3 CONCLUSION

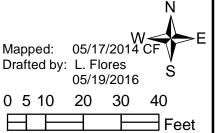
According to the U.S. Geological Survey and the NM Office of the State Engineer, this is a known area of no groundwater. Based on the report and work completed, low chloride, BTEX and TPH concentrations will not impair the the vadose zone, nor will it affect groundwater. Because vegetation has already rebounded at this site, DFSI, on behalf of Linn, submits the final C-141 (Appendix IV) and respectfully requests the closure of this regulatory file.

Soil Delineation SP1 Depth Lab CI- GRO DRO Ε Depth CHL **PID** Lab CI- GRO SS 84 0 SS 1' 83 0 ND 55 SP3 SP4 Depth Depth CHL PID Lab CI- GRO DRO E CHL PID Lab Cl- GRO DRO 82 0 57 SS SS 86 0 ND ND ND 57 0 ND ND ND ND ND ND ND ND ND SP5 X Lab CI- GRO Depth CHL PID Lab CI- GRO DRO В CHL PID DRO SS 58 0 58 0 ND 1' 56 0 ND ND ND ND ND ND 54 ND ND ND ND ND ND ND SP6 SP5 SP3 SP1 Legend Flare Sample Points Above Ground Line × Fenced Area Source: Esrl, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, Oil and Produced Water (3001 sq ft) USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS **User Community** Linn Ν



State AZ Battery Unit Letter M, Section 16, T17S, R31E **Eddy County, NM** API #: 30-015-05163

NMOCD Case #: 2R-2214



Appendix I

REVISED INITIAL C-141

District J 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

vation Division
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

St. Francis Dr.

Form C-141

Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERAT	OR		⊠ Initia	al Report Final Report			
Name of Co	mpany: I	inn Operatir	ig Inc.			Contact: E. L. Gonzales							
		der Blvd, Ho				Telephone N	lo: 575-738-1	739					
Facility Nar	ne: State A	AZ Battery F	lare (clos	sest well State AZ	(2)	Facility Type: Battery							
Surface Ow	ner: State	V I		Mineral O	vner:	er: API No. 3001505163							
				LOCA	TION	OF REI	EASE						
Unit Letter	Section	Township	Range			South Line	Feet from	East/V	Vest Line	County			
M	16	178	31E	990	S	South	990	00 West Eddy					
			Latit	ude: 32.8300337		3 Longitud		3741649					
Type of Rele	ase: Oil			11/200	ORE		Release: 10 bb	ls l	Volume I	Recovered: 0			
Source of Re		ve Heater				The second second second	lour of Occurren			Hour of Discovery			
						01/26/2014			01/26/20	14 0233			
Was Immedi	ate Notice	0.017.017	Yes [No □ Not Rec	quired	If YES, To Mike Burto		ke Bratch	er – NMO	CD			
By Whom?	Brian Wall				-5-6-7	Date and I	lour: 01/27/2014	4 0900					
Was a Water	course Rea		of Dome	4/33		If YES, Vo	lume Impacting	the Wate	ercourse.				
			Yes 🗵	No No									
		pacted, Descr											
Describe Are	ea Affected	and Cleanup	Action Ta	ken.									
regulations a public health should their or the enviro	Il operators or the envi operations land	are required in are required in the iron ment. The have failed to	to report a e acceptan adequatel OCD acce	nd/or file certain re ce of a C-141 report y investigate and re	lease not by the mediat	otifications a e NMOCD m e contaminati	nd perform corr arked as "Final on that pose a tl	ective act Report" of hreat to g	ions for rel loes not rel round wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other			
	8	2		//			OIL CO	VSERV	ATION	DIVISION			
Signature:	7	Jan 1	ret			A	Parting and the second	Owner C					
Printed Nam	e: EL Gonz	rales /				Approved by	Environmental	Specialis	Ç.				
Title: Produc	ction Super	visor			_ 4	Approval Da	te:		Expiration	Date:			
E-mail Addr	ess: elgonz	ales@linnener	gy.com			Conditions o	f Approval:			Attached			
Date: 06/	/01/2016	Phone: 505	-504-8002	2						7 10 10 10 10 10 10 10 10 10 10 10 10 10			

^{*} Attach Additional Sheets If Necessary

Appendix II

LABORATORY ANALYSIS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 31, 2016

Dennis Potter Diversified Field Services, Inc 315 S. Leech St Hobbs, NM 88240

TEL: (575) 964-8394

FAX

RE: State Az Bathey OrderNo.: 1605972

Dear Dennis Potter:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/20/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/31/2016

CLIENT: Diversified Field Services, Inc

Project: State Az Bathey

Collection Date: 5/17/2016 9:10:00 AM

Lab ID: 1605972-001

Matrix: SOIL

Received Date: 5/20/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/27/2016 12:47:15 AM
Surr: DNOP	95.0	70-130	%Rec	1	5/27/2016 12:47:15 AM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/24/2016 11:44:48 AM
Surr: BFB	107	80-120	%Rec	1	5/24/2016 11:44:48 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/24/2016 11:44:48 AM
Toluene	ND	0.047	mg/Kg	1	5/24/2016 11:44:48 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/24/2016 11:44:48 AM
Xylenes, Total	ND	0.093	mg/Kg	1	5/24/2016 11:44:48 AM
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	5/24/2016 11:44:48 AM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/25/2016 6:34:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/31/2016

Hall Environmental Analysis Laboratory, Inc.

Project: State Az Bathey
 Collection Date: 5/17/2016 11:20:00 AM

 Lab ID: 1605972-002
 Matrix: SOIL
 Received Date: 5/20/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2016 1:14:28 AM
Surr: DNOP	92.0	70-130	%Rec	1	5/27/2016 1:14:28 AM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2016 12:08:26 PM
Surr: BFB	110	80-120	%Rec	1	5/24/2016 12:08:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2016 12:08:26 PM
Toluene	ND	0.048	mg/Kg	1	5/24/2016 12:08:26 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2016 12:08:26 PM
Xylenes, Total	ND	0.095	mg/Kg	1	5/24/2016 12:08:26 PM
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	5/24/2016 12:08:26 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/25/2016 7:11:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 2 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 5/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Diversified Field Services, IncClient Sample ID: Sample Port 3 @ 1'Project:State Az BatheyCollection Date: 5/17/2016 2:30:00 PM

Lab ID: 1605972-003 **Matrix:** SOIL **Received Date:** 5/20/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/27/2016 1:41:42 AM
Surr: DNOP	100	70-130	%Rec	1	5/27/2016 1:41:42 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2016 12:31:56 PM
Surr: BFB	106	80-120	%Rec	1	5/24/2016 12:31:56 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2016 12:31:56 PM
Toluene	ND	0.048	mg/Kg	1	5/24/2016 12:31:56 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2016 12:31:56 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2016 12:31:56 PM
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	5/24/2016 12:31:56 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/25/2016 7:24:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/31/2016

CLIENT: Diversified Field Services, Inc

Project: State Az Bathey

Client Sample ID: Sample Port 4 @ 1'

Collection Date: 5/18/2016 8:40:00 AM

Lab ID: 1605972-004 **Matrix:** SOIL **Received Date:** 5/20/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/27/2016 2:09:00 AM
Surr: DNOP	92.7	70-130	%Rec	1	5/27/2016 2:09:00 AM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2016 12:55:21 PM
Surr: BFB	105	80-120	%Rec	1	5/24/2016 12:55:21 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2016 12:55:21 PM
Toluene	ND	0.048	mg/Kg	1	5/24/2016 12:55:21 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2016 12:55:21 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2016 12:55:21 PM
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	5/24/2016 12:55:21 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/25/2016 7:36:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/31/2016

Hall Environmental Analysis Laboratory, Inc.

 Project:
 State Az Bathey
 Collection Date: 5/18/2016 10:10:00 AM

 Lab ID:
 1605972-005
 Matrix: SOIL
 Received Date: 5/20/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	19	9.9	mg/Kg	1	5/27/2016 2:36:15 AM
Surr: DNOP	90.3	70-130	%Rec	1	5/27/2016 2:36:15 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2016 1:18:54 PM
Surr: BFB	108	80-120	%Rec	1	5/24/2016 1:18:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2016 1:18:54 PM
Toluene	ND	0.048	mg/Kg	1	5/24/2016 1:18:54 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2016 1:18:54 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/24/2016 1:18:54 PM
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	5/24/2016 1:18:54 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/25/2016 7:48:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Port 6 @ 1'

Project: State Az Bathey

Collection Date: 5/18/2016 12:10:00 PM

Lab ID: 1605972-006 **Matrix:** SOIL **Received Date:** 5/20/2016 9:50:00 AM

Analyses	Result	PQL Qual Units		DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	}			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/27/2016 3:03:33 AM		
Surr: DNOP	98.7	70-130	%Rec	1	5/27/2016 3:03:33 AM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2016 1:42:23 PM		
Surr: BFB	108	80-120	%Rec	1	5/24/2016 1:42:23 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	5/24/2016 1:42:23 PM		
Toluene	ND	0.048	mg/Kg	1	5/24/2016 1:42:23 PM		
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2016 1:42:23 PM		
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2016 1:42:23 PM		
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	5/24/2016 1:42:23 PM		
EPA METHOD 300.0: ANIONS					Analyst: LGT		
Chloride	ND	30	mg/Kg	20	5/25/2016 8:01:17 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605972

31-May-16

Client: Diversified Field Services, Inc

Project: State Az Bathey

Sample ID MB-25511 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **25511** RunNo: **34490**

Prep Date: 5/25/2016 Analysis Date: 5/25/2016 SeqNo: 1063785 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-25511 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 25511 RunNo: 34490

Prep Date: 5/25/2016 Analysis Date: 5/25/2016 SeqNo: 1063786 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.5 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1605972**

31-May-16

Client: Diversified Field Services, Inc

Project: State Az Bathey

Sample ID MB-25467 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 25467 RunNo: 34489

Prep Date: 5/25/2016 Analysis Date: 5/26/2016 SeqNo: 1064652 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 8.3 10.00 83.1 70 130

Sample ID LCS-25467 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 25467 RunNo: 34489

Prep Date: 5/25/2016 Analysis Date: 5/26/2016 SeqNo: 1064665 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 47
 10
 50.00
 0
 94.5
 62.6
 124

 Surr: DNOP
 4.4
 5.000
 88.2
 70
 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1605972

31-May-16

Client: Diversified Field Services, Inc

Project: State Az Bathey

Sample ID MB-25439 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 25439 RunNo: 34440

Prep Date: 5/23/2016 Analysis Date: 5/24/2016 SeqNo: 1062201 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 109 80 120

TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-25439 SampType: LCS

Client ID: LCSS Batch ID: 25439 RunNo: 34440

Prep Date: 5/23/2016 Analysis Date: 5/24/2016 SeqNo: 1062202 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 96.1 80 120 1200 80

117

120

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605972

31-May-16

Client: Diversified Field Services, Inc

Project: State Az Bathey

Sample ID MB-25439 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 25439 RunNo: 34440 Prep Date: 5/23/2016 Analysis Date: 5/24/2016 SeqNo: 1062243 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 Toluene ND 0.050 ND 0.050

Ethylbenzene ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 1.1 1.000

113 80 120

Sample ID LCS-25439	SampT	Гуре: LC	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	h ID: 25	439	F	RunNo: 3	4440					
Prep Date: 5/23/2016	Analysis Date: 5/24/2016			S	SeqNo: 1	062244	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.99	0.025	1.000	0	98.7	75.3	123				
Toluene	1.0	0.050	1.000	0	102	80	124				
Ethylbenzene	1.0	0.050	1.000	0	100	82.8	121				
Xylenes, Total	3.0	0.10	3.000	0	100	83.9	122				
Surr: 4-Bromofluorobenzene	1.2		1.000		115	80	120				

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Reporting Detection Limit

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

DIVERSIFIED FIELD SE Client Name: Work Order Number: 1605972 ReptNo: 1 Received by/date: Logged By: Lindsay Mangin 5/20/2016 9:50:00 AM Completed By. Lindsay Mangin 5/20/2016 12:18:18 PM 120/16 Reviewed By: TO Chain of Custody 1. Custody seals intact on sample bottles? Yes No. Not Present ▼ 2. Is Chain of Custody complete? Yes V No Not Present 3 How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? No _ NA _ Yes V Were all samples received at a temperature of >0° C to 6.0°C No. Yes V Sample(s) in proper container(s)? No Yes V 7 Sufficient sample volume for indicated (est(s)? No I Yes V B. Are samples (except VOA and ONG) properly preserved? Na Yes 9 Was preservative added to bottles? NA. Yes No V 10. VOA vials have zero headspace? No . No VOA Vials Yes. 11. Were any sample containers received broken? No V # of preserved bottles checked 12. Does paperwork match pottle labels? No. for pH: (Note discrepancies on chain of custody) (<2 or >12 vintess noted) Adjusted? No. 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? No ! Yes 15. Were all holding times able to be met? No. Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No. NA V Person Notified: Date By Whom: Via. eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date 1.0 Good Yes

one #:	ax#:\F\	1406 W	Snydrev Snydrev	Standard Project Name Shahe A Project #:						A								ATIV TOI		
none #: nail or Fa yQC Pac Standar	ax#:\F\	1406 W	Snyder	State A																
none #: nail or Fa yQC Pac Standar	ax#: \F\	निक्षेत्र । विकास	Snydrev 5, NM 88240	State A Project #:	2 Bather					١	ww.	halle	nviron	men	tal.co	om				
none #: nail or Fa yQC Pac Standar	ax#: \F\	निक्षेत्र । विकास	, NM 88240	Project #:		ú		490)1 H				Albuqu				109			
nail or Fa yQC Pac Standai creditati	ckage:		, <u>, , , , , , , , , , , , , , , , , , </u>			1		Te	l. 50	5-34	5-39 ⁻	75	Fax	505-	-345-	-4107	7			
nail or Fa yQC Pac Standai creditati	ckage:	loves (P]								Ana	alysis	Req	luesi	t				
Standaı creditati			diversitied fricom	Project Mana	ger:			nly)	30)				O ₄)	l						1
creditati	IU		☐ Level 4 (Full Validation)	Dennis Pe	H.~		TMB's (8021)	TPH (Gas only)	30 / MF			SIMS)	PO ₄ ,S(PCB's						
NELAP				Sampler:		5	MB	PH (/ DF	\subseteq	- 1	8	Ç Ç	082						
)	□ Othe	r	On Ice:	▼ Yes	□ No	_ 	+	8	8.	40	8270	္ကုင္ရွိ	8/s		₹	j			Or N
EDD (T	ype)			Sample Temp	perature: //	0	BE.	BE.	<u>ō</u>	bd 4	g	0 0		iğ.	7	>				>
)ate T	Гіте	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX≯ MTBE	BTEX + MT	TPH)8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RURA 8 Metals Anions (RCI)NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles
7/2014 9	:NAM	zoi l	Sample Point 1 @ 1'	You glass	أرو	-001	X		X				$\sqrt{\chi}$							
V	. 20jw		Sample Point 7 P 1'	1	1	-002	ì		1											Γ
1	30eM		Sample Point 3 @ 1'			-002														
1/20108	*	,	Sample Point 4 (1)			-02-f									ļ					
J	MAOI		Sample Point 5 (2)			-005														
	rosm		Sample Point 60 1'	4	4	-006	4		4				4							
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Appendix III

SITE PHOTOS

State AZ Battery Flare

Unit Letter M, Section 16, T17S, R31E | NMOCD Case #: 2R-2214

PHOTO PAGE



Site prior, facing north

3/14/2014



Collecting samples, facing northwest 5/18/2016



Site completed, facing west

5/18/2016



Site prior, facing south

3/14/2014



Site completed, facing northwest

5/18/2016



Site completed, facing south

5/18/2016

Appendix IV

FINAL C-141

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

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

			Rele	ease Notific	cation		P)	Action	4 S.Y.			
Name of C	T	in One	Tale		- 1	OPERA'	L. Gonzales		Initia	l Report		
		inn Operatir der Blvd, Ho		1 88240			No: 575-738-1	739				
The second secon		A STATE OF THE PARTY OF THE PAR	and the same of th	sest well State A		Facility Type: Battery						
Surface Ow	ner: State		jii-	Mineral C		er: API No. 3001505163						
2000	2,000					OF RE	EASE					
Unit Letter M	Section 16	Township 17S	Range 31E	Feet from the 990	North/	South Line South	Feet from 990	East/Wes Wes	Se the dealers .	County Eddy		
			Latit	ude: 32.830033				3741649				
Type of Rele	ase: Oil			NAI	UKE	OF REL	Release: 10 bb	de IV	Johnme B	tecovered: 0		
Source of Re		ve Heater				the state of the s	lour of Occurre			Hour of Discovery		
1 1 10 100 100	W. W. C. W. W.					01/26/201			1/26/201			
Was Immedi	ate Notice		Yes [No □ Not R	equired	If YES, To Mike Burt		ike Bratcher	- NMO	CD.		
By Whom?	Brian Wall		11.00			Date and Hour: 01/27/2014 0900						
Was a Water	Was a Watercourse Reached? ☐ Yes ☑ No						If YES, Volume Impacting the Watercourse.					
On May 17, well as BTE concentratio obtain confin	ea Affected 2016, DFSI X. The BT ns, under N mation. previously	and Cleanup I personnel we EX samples w MOCD and B	re on site ere perfor LM regul	to obtain samples med using a Mini atory guidelines, a	Rae Pho and were	otoionization submitted fo	Detector (PID). or laboratory and	. All field sa alysis at Card	mples re dinal Lab	I sampled for chloride levels, as sulted in very low chloride poratories of Hobbs, NM to		
I hereby cert regulations a public health should their or the environ federal, state	ify that the all operators or the envious operations longert. In	information g are required ironment. The have failed to	o report a acceptan adequatel OCD acce	nd/or file certain ce of a C-141 rep y investigate and	release n ort by th remediat	notifications a ne NMOCD n ne contaminat	and perform corn narked as "Final ion that pose a to we the operator of	rective action Report" doe hreat to grou of responsibi	ns for reless not rel and water lity for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other DIVISION		
Signature: Printed Nam	ne: EL Genz	rales)	ali			Approved by	Environmental	Specialist:				
Title: Produ	ction Super	visor				Approval Da	ite:	Ex	piration	Date:		
Company of the	ess: elgonz /01/2016	ales@linnener	15/17/17	2		Conditions of	of Approval:			Attached		