Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAB1906632805
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 11/14/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAB1906632805
District RP	
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Closure

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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 11/14/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Robert Hamlet Date: 2/28/2023

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

Closure Approved by: Robert Hamlet Date: 2/28/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Devon Energy Production Company
Snapping 2 St 14H Battery

Closure Report
U/L P, Sec 2, T26S, R31E
Eddy County, New Mexico
NAB1906632805
NRM2000942346

July 22, 2021

Prepared for:

Devon Energy Production Company
6488 Seven Rivers Hwy
Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240

Company Contacts

Representative	Company	Telephone	E-mail
Tom Bynum	Devon Energy	580-748-1613	Tom.Bynum@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment at the Snapping 2 St 14H Battery concerning a 7.3 bbls produced water release around the saddle riser on the pipeline south of the battery. According to the C-141, a gasket blew out and caused the release. No barrels of fluid were recovered. This site is situated in Eddy County, Section 2, Township 24S, and Range 29E.

SESI personnel performed an assessment of the site in February of 2020 based on generator knowledge of the leak location. SESI personnel mapped the leak and performed delineation. A second release was documented on 8/14/2019 as almost 14 bbls of produced water was released inside the SPCC containment area. A pin hole leak in the 2" water line going to the tanks was responsible for the release. As this release was confined to the containment area, this closure report will be used to address both incidents and their closure.

Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water is not present within 3,000 feet of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be between 340' and 365' bgs. This is evidenced by wells drilled in the area that are less than 25 years old, and are approximately 1400' from the release location(s).

Characterization

In February 2020, SESI personnel performed sampling to determine vertical extent of the release. SESI advanced 11 auger holes within the leak areas. In August of 2020, Horizontal extent samples were collected to confirm the breadth of the release was mitigated to the defined release area previously determined. The samples were properly packaged and preserved and sent to Cardinal Laboratories for analysis. The results of the testing are captured in the summary below:

Devon Energy Snapping 2 St 14H Battery Soil Sample Results: Cardinal Environmental Laboratories 2/17/20 – NAB1906632805									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**EXT DRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
AH1 @ SURFACE	224	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH1 @ 1’	240	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH2 @ SURFACE	224	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH2 @ 1’	64	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH3 @ SURFACE	240	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH3 @ 1’	208	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH4 @ SURFACE	224	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH4 @ 1’	64	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH4 @ 1.5’	75	ND	ND	ND	ND	ND	ND	ND	ND
AH5 @ SURFACE	16	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH5 @ 1’	16	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH6 @ SURFACE	80	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH6 @ 1’	16	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH7 @ SURFACE	64	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH7 @ 1’	16	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
NRM2000942346									
AH1 @ SURFACE	192	<10.0	358	110	<0.050	<0.050	<0.050	<0.150	<0.300
AH1 @ 1’	160	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH2 @ SURFACE	192	<10.0	391	101	<0.050	<0.050	<0.050	<0.150	<0.300
AH2 @ 1’	160	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH3 @ SURFACE	192	<10.0	147	28.1	<0.050	<0.050	<0.050	<0.150	<0.300
AH3 @ 1’	144	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
AH4 @ SURFACE	176	<10.0	84.1	17.3	<0.050	<0.050	<0.050	<0.150	<0.300
AH4 @ 1’	160	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
Horizontal Extent – Hall Labs 7/31/20									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**MRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**XYLENES**	
H-5 North	ND	ND	ND	ND	ND	ND	ND	ND	
H-6 West	73	ND	ND	ND	ND	ND	ND	ND	
H-7 South	ND	ND	ND	ND	ND	ND	ND	ND	
H-8 East	ND	ND	ND	ND	ND	ND	ND	ND	

Remediation

NAB1906632805

Based on the results of the delineation, SESI, determined the best course of action is to excavate the contaminated soil to a depth of 1 to 1.5 feet as practicable. Contaminated soils were excavated and subsequently transported to an approved NMOCD disposal facility; the site was then backfilled with clean soil. Pictures of the remediation are included in this report.

NRM2000942346

For this incident, 13.86 bbls of produced water were released into the lined SPCC containment area. According to the C-141, a pin hole leak in the 2" water line going to the water tanks gave rise to the release. All 13.86 bbls of fluid were recovered via vacuum truck. SESI was asked to perform a liner inspection on this containment area and this activity was performed on 7/31/20. The photo documentation is included in this report as well. Because this release was fully contained, and fully recovered, there was no evidence that any fluids left the containment area. As the liner inspection shows, there was no damage observed over a year from when the incident first occurred. Therefore, there were no soil samples taken, and no analytical to report.

Closure Request

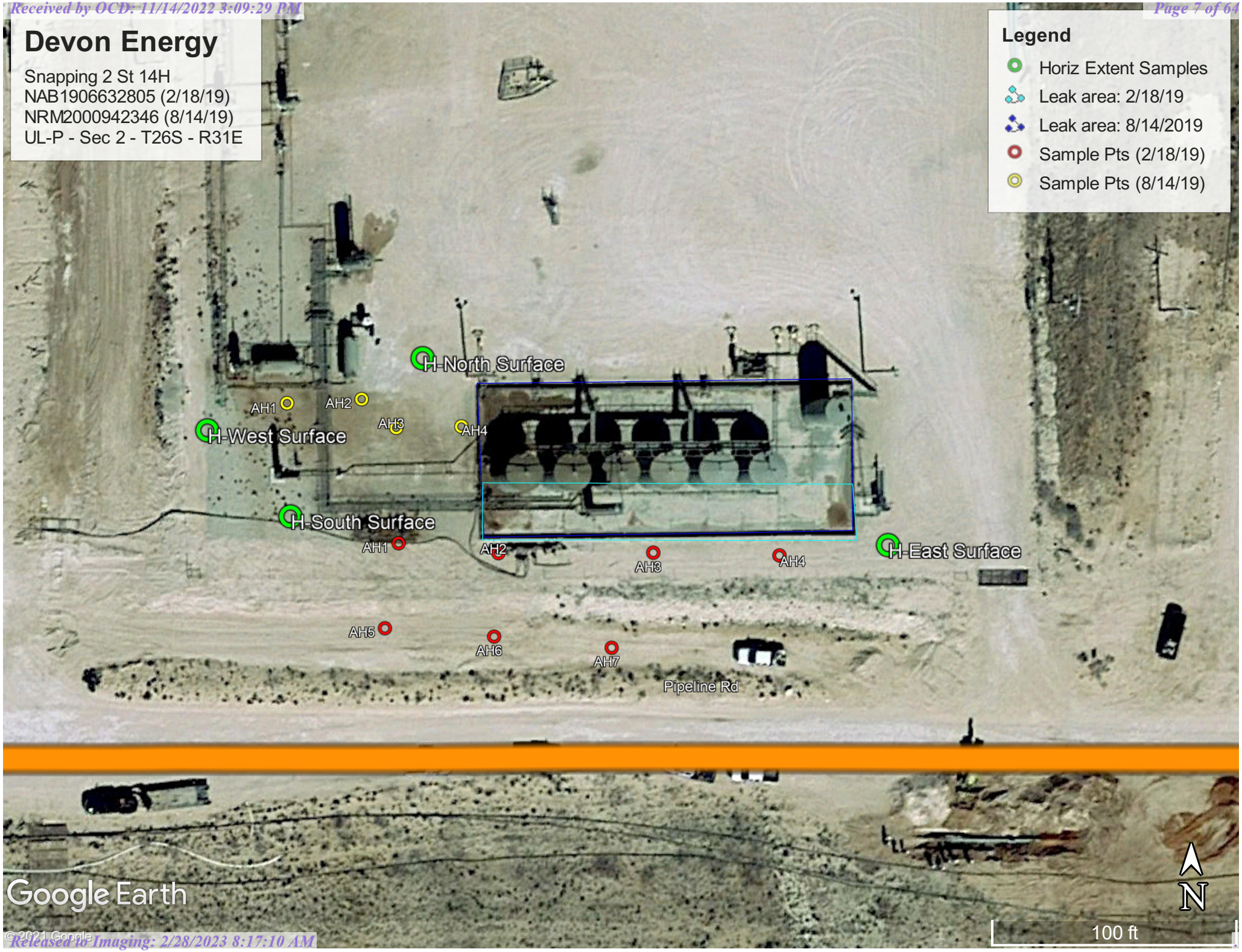
Based on the vertical and horizontal sample results, SESI believes the release area to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of Devon respectfully requests closure of the following releases, **NAB1906632805** & **NRM2000942346**. Supplemental information has been included in this report to support our closure request.

Supplemental Documentation for Closure

Map of Release with sample locations
Photos of release and remediation
NMOCD Oil and Gas Map
BLM Cave Karst Map
Laboratory Analysis 2/27/20 and 8/14/20
C-141, pages 3-6

Devon Energy

Snapping 2 St 14H
NAB1906632805 (2/18/19)
NRM2000942346 (8/14/19)
UL-P - Sec 2 - T26S - R31E



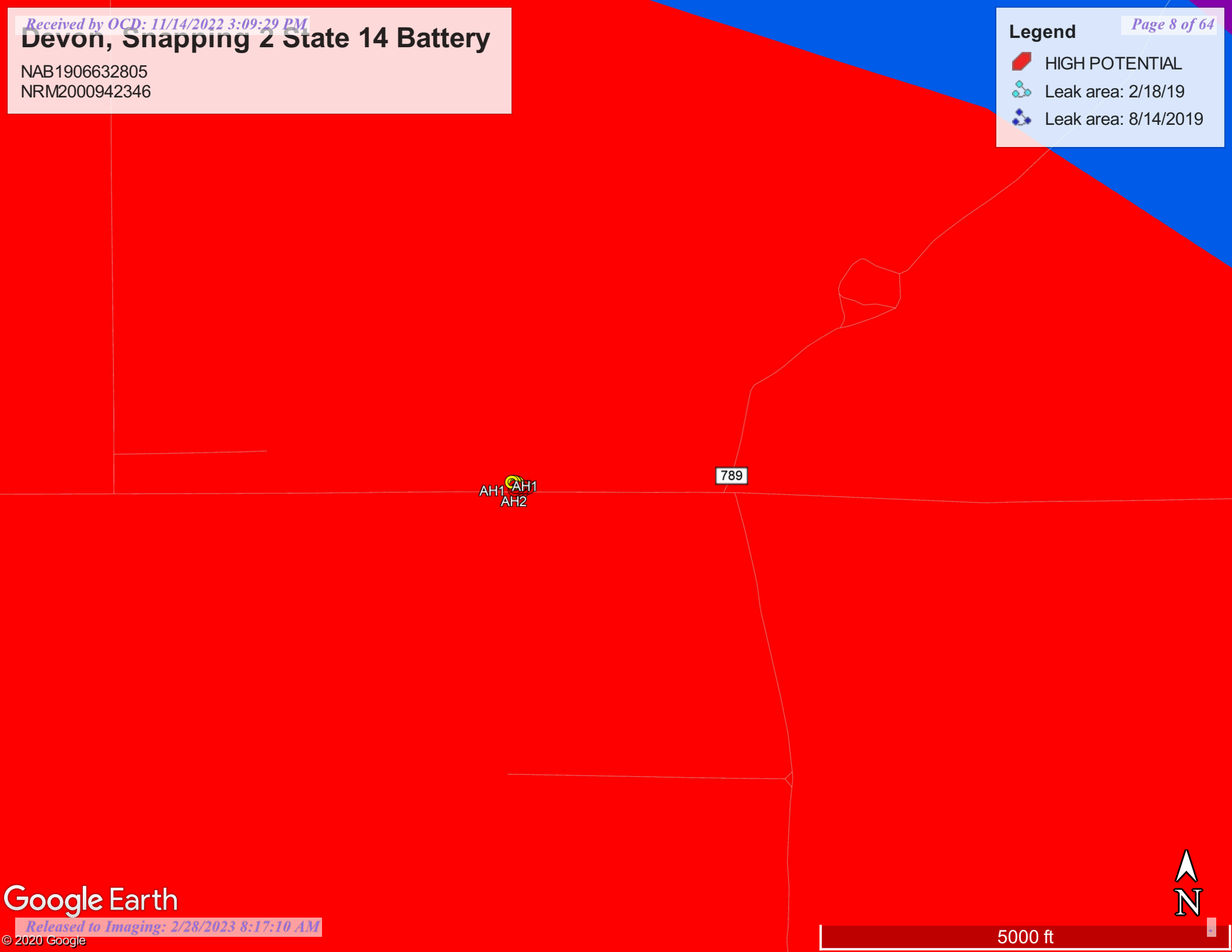
Received by OCD: 11/14/2022 3:09:29 PM

Devon, Snapping 2 State 14 Battery

NAB1906632805
NRM2000942346

Legend

- HIGH POTENTIAL
- Leak area: 2/18/19
- Leak area: 8/14/2019



Released to Imaging: 2/28/2023 8:17:10 AM

OSE PUBLIC PRINT

8/12/2021, 11:08:44 AM

GIS WATERS PODs
- Active
- Pending

OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

Both Estates

SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Printed from Public Web Map
Unofficial Map from OSE POD Locations Web Application

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 10, 2020

Bob Allen

Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: Devon Snapping 2 State 14 H OrderNo.: 2008034

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/4/2020 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 qualifiers 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2008034**
Date Reported: **8/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-4 1.5 ft
Project: Devon Snapping 2 State 14 H
Collection Date: 7/31/2020 9:45:00 AM
Lab ID: 2008034-001 **Matrix:** SOIL
Received Date: 8/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	75	60		mg/Kg	20	8/7/2020 2:23:27 AM	54233
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/5/2020 8:33:39 PM	54146
Surr: BFB	108	70-130		%Rec	1	8/5/2020 8:33:39 PM	54146
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/5/2020 10:20:19 PM	54158
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/5/2020 10:20:19 PM	54158
Surr: DNOP	115	30.4-154		%Rec	1	8/5/2020 10:20:19 PM	54158
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	8/5/2020 8:33:39 PM	54146
Toluene	ND	0.048		mg/Kg	1	8/5/2020 8:33:39 PM	54146
Ethylbenzene	ND	0.048		mg/Kg	1	8/5/2020 8:33:39 PM	54146
Xylenes, Total	ND	0.097		mg/Kg	1	8/5/2020 8:33:39 PM	54146
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	8/5/2020 8:33:39 PM	54146
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	8/5/2020 8:33:39 PM	54146
Surr: Dibromofluoromethane	104	70-130		%Rec	1	8/5/2020 8:33:39 PM	54146
Surr: Toluene-d8	102	70-130		%Rec	1	8/5/2020 8:33:39 PM	54146

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
PQL	Practical Quanitative Limit
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 Limit

Analytical Report
Lab Order **2008034**
Date Reported: **8/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-5 North
Project: Devon Snapping 2 State 14 H
Collection Date: 7/31/2020 10:15:00 AM
Lab ID: 2008034-002 **Matrix:** SOIL
Received Date: 8/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	8/7/2020 3:00:30 AM	54233
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/5/2020 10:02:24 PM	54146
Surr: BFB	109	70-130		%Rec	1	8/5/2020 10:02:24 PM	54146
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/5/2020 10:30:28 PM	54158
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/5/2020 10:30:28 PM	54158
Surr: DNOP	138	30.4-154		%Rec	1	8/5/2020 10:30:28 PM	54158
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	8/5/2020 10:02:24 PM	54146
Toluene	ND	0.048		mg/Kg	1	8/5/2020 10:02:24 PM	54146
Ethylbenzene	ND	0.048		mg/Kg	1	8/5/2020 10:02:24 PM	54146
Xylenes, Total	ND	0.096		mg/Kg	1	8/5/2020 10:02:24 PM	54146
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%Rec	1	8/5/2020 10:02:24 PM	54146
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	8/5/2020 10:02:24 PM	54146
Surr: Dibromofluoromethane	104	70-130		%Rec	1	8/5/2020 10:02:24 PM	54146
Surr: Toluene-d8	103	70-130		%Rec	1	8/5/2020 10:02:24 PM	54146

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
PQL	Practical Quanitative Limit
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 Limit

Analytical Report
Lab Order **2008034**
Date Reported: **8/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-6 West
Project: Devon Snapping 2 State 14 H
Collection Date: 7/31/2020 10:45:00 AM
Lab ID: 2008034-003 **Matrix:** SOIL
Received Date: 8/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	73	60		mg/Kg	20	8/7/2020 3:12:50 AM	54233
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/6/2020 1:28:45 AM	54146
Surr: BFB	105	70-130		%Rec	1	8/6/2020 1:28:45 AM	54146
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/5/2020 10:40:38 PM	54158
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/5/2020 10:40:38 PM	54158
Surr: DNOP	100	30.4-154		%Rec	1	8/5/2020 10:40:38 PM	54158
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.023		mg/Kg	1	8/6/2020 1:28:45 AM	54146
Toluene	ND	0.046		mg/Kg	1	8/6/2020 1:28:45 AM	54146
Ethylbenzene	ND	0.046		mg/Kg	1	8/6/2020 1:28:45 AM	54146
Xylenes, Total	ND	0.093		mg/Kg	1	8/6/2020 1:28:45 AM	54146
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	8/6/2020 1:28:45 AM	54146
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	8/6/2020 1:28:45 AM	54146
Surr: Dibromofluoromethane	104	70-130		%Rec	1	8/6/2020 1:28:45 AM	54146
Surr: Toluene-d8	101	70-130		%Rec	1	8/6/2020 1:28:45 AM	54146

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2008034**
Date Reported: **8/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-7 South
Project: Devon Snapping 2 State 14 H
Collection Date: 7/31/2020 11:10:00 AM
Lab ID: 2008034-004 **Matrix:** SOIL
Received Date: 8/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	8/7/2020 3:25:10 AM	54233
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/6/2020 1:58:08 AM	54146
Surr: BFB	107	70-130		%Rec	1	8/6/2020 1:58:08 AM	54146
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/5/2020 11:40:45 PM	54160
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/5/2020 11:40:45 PM	54160
Surr: DNOP	110	30.4-154		%Rec	1	8/5/2020 11:40:45 PM	54160
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	8/6/2020 1:58:08 AM	54146
Toluene	ND	0.047		mg/Kg	1	8/6/2020 1:58:08 AM	54146
Ethylbenzene	ND	0.047		mg/Kg	1	8/6/2020 1:58:08 AM	54146
Xylenes, Total	ND	0.095		mg/Kg	1	8/6/2020 1:58:08 AM	54146
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	8/6/2020 1:58:08 AM	54146
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	8/6/2020 1:58:08 AM	54146
Surr: Dibromofluoromethane	108	70-130		%Rec	1	8/6/2020 1:58:08 AM	54146
Surr: Toluene-d8	99.4	70-130		%Rec	1	8/6/2020 1:58:08 AM	54146

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2008034**
Date Reported: **8/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-8 East
Project: Devon Snapping 2 State 14 H
Collection Date: 7/31/2020 11:40:00 AM
Lab ID: 2008034-005 **Matrix:** SOIL
Received Date: 8/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	8/7/2020 3:37:31 AM	54233
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/6/2020 2:27:42 AM	54146
Surr: BFB	103	70-130		%Rec	1	8/6/2020 2:27:42 AM	54146
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/6/2020 12:10:56 AM	54160
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/6/2020 12:10:56 AM	54160
Surr: DNOP	73.0	30.4-154		%Rec	1	8/6/2020 12:10:56 AM	54160
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	8/6/2020 2:27:42 AM	54146
Toluene	ND	0.048		mg/Kg	1	8/6/2020 2:27:42 AM	54146
Ethylbenzene	ND	0.048		mg/Kg	1	8/6/2020 2:27:42 AM	54146
Xylenes, Total	ND	0.097		mg/Kg	1	8/6/2020 2:27:42 AM	54146
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/6/2020 2:27:42 AM	54146
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	8/6/2020 2:27:42 AM	54146
Surr: Dibromofluoromethane	106	70-130		%Rec	1	8/6/2020 2:27:42 AM	54146
Surr: Toluene-d8	98.3	70-130		%Rec	1	8/6/2020 2:27:42 AM	54146

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008034**

10-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Snapping 2 State 14 H

Sample ID: **MB-54233**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **54233**	RunNo: **70878**
Prep Date: **8/6/2020**	Analysis Date: **8/7/2020**	SeqNo: **2468703** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-54233**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **54233**	RunNo: **70878**
Prep Date: **8/6/2020**	Analysis Date: **8/7/2020**	SeqNo: **2468704** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	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
PQL	Practical Quanitative Limit
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 Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008034**

10-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Snapping 2 State 14 H

Sample ID: **2008034-004AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **H-7 South**	Batch ID: **54160**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/5/2020**	SeqNo: **2467368** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.8	49.12	0	92.0	47.4	136			
Surr: DNOP	4.0		4.912		82.0	30.4	154			

Sample ID: **2008034-004AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **H-7 South**	Batch ID: **54160**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/6/2020**	SeqNo: **2467369** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.8	48.83	0	89.2	47.4	136	3.64	43.4	
Surr: DNOP	3.8		4.883		78.5	30.4	154	0	0	

Sample ID: **LCS-54157**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **54157**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/5/2020**	SeqNo: **2467390** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.5	30.4	154			

Sample ID: **LCS-54158**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **54158**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/5/2020**	SeqNo: **2467391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	115	70	130			
Surr: DNOP	4.9		5.000		98.3	30.4	154			

Sample ID: **LCS-54160**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **54160**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/5/2020**	SeqNo: **2467392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	70	130			
Surr: DNOP	4.8		5.000		95.1	30.4	154			

Sample ID: **MB-54157**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **54157**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/5/2020**	SeqNo: **2467394** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		131	30.4	154			

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
PQL	Practical Quanitative Limit
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 Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008034**

10-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Snapping 2 State 14 H

Sample ID: **MB-54158**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **54158**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/5/2020**	SeqNo: **2467395** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	30.4	154			

Sample ID: **MB-54160**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **54160**	RunNo: **70860**
Prep Date: **8/4/2020**	Analysis Date: **8/5/2020**	SeqNo: **2467396** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	30.4	154			

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
PQL	Practical Quanitative Limit
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 Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008034**

10-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Snapping 2 State 14 H

Sample ID: **lcs-54146** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **BatchQC** Batch ID: **54146** RunNo: **70866**

Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.8	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.5	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID: **mb-54146** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **54146** RunNo: **70866**

Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467904** 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								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.9	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.7	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.49		0.5000		98.7	70	130			

Sample ID: **2008034-002AMS** SampType: **MS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **H-5 North** Batch ID: **54146** RunNo: **70866**

Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467907** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9911	0	112	71.1	115			
Toluene	1.0	0.050	0.9911	0.005624	103	79.6	132			
Ethylbenzene	1.0	0.050	0.9911	0	102	83.8	134			
Xylenes, Total	3.1	0.099	2.973	0	104	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.49		0.4955		98.0	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4955		94.1	70	130			
Surr: Dibromofluoromethane	0.51		0.4955		103	70	130			
Surr: Toluene-d8	0.49		0.4955		99.7	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
PQL	Practical Quanitative Limit
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 Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2008034**
10-Aug-20

Client: Safety & Environmental Solutions
Project: Devon Snapping 2 State 14 H

Sample ID: **2008034-002AMSD** SampType: **MSD4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **H-5 North** Batch ID: **54146** RunNo: **70866**
Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467908** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9862	0	109	71.1	115	3.57	20	
Toluene	1.0	0.049	0.9862	0.005624	101	79.6	132	2.61	20	
Ethylbenzene	1.0	0.049	0.9862	0	104	83.8	134	1.59	20	
Xylenes, Total	3.1	0.099	2.959	0	103	82.4	132	1.23	20	
Surr: 1,2-Dichloroethane-d4	0.48		0.4931		97.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4931		90.5	70	130	0	0	
Surr: Dibromofluoromethane	0.52		0.4931		105	70	130	0	0	
Surr: Toluene-d8	0.48		0.4931		98.3	70	130	0	0	

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
PQL	Practical Quanitative Limit
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 Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008034**

10-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Snapping 2 State 14 H

Sample ID: **lcs-54146** SampType: **LCS** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **LCSS** Batch ID: **54146** RunNo: **70866**

Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467929** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	90.0	70	130			
Surr: BFB	520		500.0		104	70	130			

Sample ID: **mb-54146** SampType: **MBLK** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **PBS** Batch ID: **54146** RunNo: **70866**

Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467930** 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	550		500.0		109	70	130			

Sample ID: **2008034-001AMS** SampType: **MS** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **AH-4 1.5 ft** Batch ID: **54146** RunNo: **70866**

Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467932** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.90	3.101	86.6	49.2	122			
Surr: BFB	520		498.0		104	70	130			

Sample ID: **2008034-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **AH-4 1.5 ft** Batch ID: **54146** RunNo: **70866**

Prep Date: **8/4/2020** Analysis Date: **8/5/2020** SeqNo: **2467933** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.41	3.101	83.3	49.2	122	5.09	20	
Surr: BFB	520		488.3		107	70	130	0	0	

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
PQL	Practical Quanitative Limit
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 Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Safety & Environmental Solutions** Work Order Number: **2008034** RcptNo: 1

Received By: **Emily Mocho** **8/4/2020 8:00:00 AM**

Completed By: **Emily Mocho** **8/4/2020 8:41:05 AM**

Reviewed By: DAD 8/4/20

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: SPA 8.4.20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			

Released to Imaging: 2/28/2023 8:17:10 AM
Received by OCD: 11/14/2022 3:09:29 PM

Chain-of-Custody Record

Client: Safety & Environmental Solution

Mailing Address: 703 E. Clinton Hobbs NM & 8240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☐ Rush 5 days

Project Name: DeVon Swapping 2 Sister 14 H

Project #: DEV-20-016

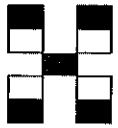
Project Manager: Allen, Bob

Sampler: Jose Jary

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4 +0.2 = 1.6 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2008034	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
7/31	0945	S	AH-4 1.5 Ft	1	Ice	-001	X	X								X Chloride
7/31	1015	S	H-5 North	1		-002										
7/31	1045	S	H-6 West	1		-003										
7/31	1110	S	H-7 South	1		-004										
7/31	1140	S	H-8 East	1		-005	X	X								X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
08/03	0800				8/3/20	0800
8/3/20	1900		EKM	courier	8/4/20	8:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

CARDINAL Laboratories

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

February 19, 2020

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: SNAPPING 2 STATE 14H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/20 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-1 SURFACE (H000472-01)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *89.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.5 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-1 1' (H000472-02)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *90.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *95.3 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-2 SURFACE (H000472-03)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *87.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.6 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-2 1' (H000472-04)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *86.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-3 SURFACE (H000472-05)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *88.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.2 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-3 1' (H000472-06)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *92.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *95.1 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-4 SURFACE (H000472-07)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *86.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.0 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-4 1' (H000472-08)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *87.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *89.7 %* *37.6-147*

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-5 SURFACE (H000472-09)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *89.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.6 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-5 1' (H000472-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/18/2020	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	02/17/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/17/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/17/2020	ND					

Surrogate: 1-Chlorooctane *88.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.6 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-6 SURFACE (H000472-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	02/18/2020	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	02/18/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *82.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *85.5 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-6 1' (H000472-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/18/2020	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	02/18/2020	ND	199	99.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	189	94.6	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *89.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.7 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-7 SURFACE (H000472-13)

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	02/17/2020	ND	1.98	99.1	2.00	0.650	
Toluene*	<0.050	0.050	02/17/2020	ND	2.00	100	2.00	0.739	
Ethylbenzene*	<0.050	0.050	02/17/2020	ND	2.01	101	2.00	0.654	
Total Xylenes*	<0.150	0.150	02/17/2020	ND	5.87	97.8	6.00	0.772	
Total BTEX	<0.300	0.300	02/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	02/18/2020	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	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *81.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *84.0 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-7 1' (H000472-14)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/18/2020	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	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *85.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.2 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	**BILL TO**	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	DCV-20-016	Project Owner:	City:
Project Name:	SNYPPING 2 STATE 14H TANK		State: Zip:
Project Location:			Phone #:
Sampler Name:	SOSA, JERRY		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH (8015M)	BTEX	Chlorides
H000472																	
1	AH-1 SURFACE	G	1			X					X		02/14	1045	X	X	X
2	AH-1 1FT	G	1			X					X			1055			
3	AH-2 SURFACE	G	1			X					X			1110			
4	AH-2 1FT	G	1			X					X			1120			
5	AH-3 SURFACE	G	1			X					X			1125			
6	AH-3 1FT	G	1			X					X			1135			
7	AH-4 SURFACE	G	1			X					X			1145			
8	AH-4 1FT	G	1			X					X			1205			
9	AH-5 SURFACE	G	1			X					X			1240			
10	AH-5 1FT	G	1			X					X			1220	X	X	X

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Relinquished By:	Date: 02/17/20	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Time: 13:15	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
	Date:		REMARKS:
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: #113 / 4.3°

Sample Condition: Cool ☑ Yes Intact ☑ Yes

CHECKED BY: (Initials)

Received by OCD: 11/14/2022 3:09:29 PM

Released to Imaging: 2/28/2023 8:17:10 AM

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	**BILL TO**	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	DCS-20016 Project Owner:	City:	
Project Name:	SNAPPING 2 STATE 14H BATT	State: Zip:	
Project Location:		Phone #:	
Sampler Name:	Sosa Jerry	Fax #:	

ANALYSIS REQUEST: TPH (8015M) | BTEX | Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H000472														
11	AH-6 SURFACE	G	1			X					X		02/14	1235
12	AH-6 1FT	G	1			X					X		"	1250
13	AH-7 SURFACE	G	1			X					X		"	1300
14	AH-7 1FT	G	1			X					X		"	1315

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Relinquished By: Sosa Jerry	Date: 02/17/20 Time: 13:15	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 / #4.3	Sample Condition Cool: ☑ Yes Intact: ☑ Yes	CHECKED BY: (Initials)	REMARKS:

Received by OCD: 11/14/2022 3:09:29 PM

Released to Imaging: 2/28/2023 8:17:10 AM

CARDINAL Laboratories

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

February 19, 2020

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: SNAPPING 2 STATE 14H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/20 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-1 SURFACE (H000473-01)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	02/18/2020	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	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	**358**	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	**110**	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *85.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.7 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-1 1' (H000473-02)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	02/18/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *79.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *82.5 %* *37.6-147*

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-2 SURFACE (H000473-03)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	02/18/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	**391**	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	**101**	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *83.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.6 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-2 1' (H000473-04)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.8 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	02/18/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *90.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.7 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-3 SURFACE (H000473-05)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	02/18/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	**147**	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	**28.1**	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *84.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *88.9 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-3 1' (H000473-06)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	02/18/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *87.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.8 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-4 SURFACE (H000473-07)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	02/18/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	**84.1**	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	**17.3**	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *81.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.1 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	02/17/2020	Sampling Date:	02/14/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SNAPPING 2 STATE 14H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	DEV-20-016	Sample Received By:	Jodi Henson
Project Location:	TOP		

Sample ID: AH-4 1' (H000473-08)

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	02/18/2020	ND	1.93	96.5	2.00	4.34	
Toluene*	<0.050	0.050	02/18/2020	ND	1.95	97.6	2.00	4.06	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	1.94	96.8	2.00	4.38	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.63	93.8	6.00	4.25	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	02/18/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	193	96.3	200	0.0970	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	211	105	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane *80.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *83.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	**BILL TO**	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	DCS-20-06 Project Owner:	City:	
Project Name:	SNAPPY 2 STATE 14H BATT.	State: Zip:	
Project Location:	TOP	Phone #:	
Sampler Name:	SOSA - Jerry	Fax #:	

ANALYSIS REQUEST: TPH (8015M) ⑥ | BTEX | Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H000473	TOP													
1	AH-1 Surface	G	1			X					X		02/14	1340
2	AH-1 1ft	G	1			X					X			1355
3	AH-2 Surface	G	1			X					X			1410
4	AH-2 1ft	G	1			X					X			1425
5	AH-3 Surface	G	1			X					X			1435
6	AH-3 1ft	G	1			X					X			1445
7	AH-4 Surface	G	1			X					X			1455
8	AH-4 1ft	G	1			X					X		02/14	1510

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 consequental 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:	Date: 02/17/20	Received By:	
Relinquished By:	Time: 0830 Date: 2/17/20	Received By:	Jodi Henson
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time: 13:15 #113 / 4.3°C	Sample Condition Cool ☒ Yes Intact ☒ Yes	CHECKED BY: (Initials)

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

Received by OCD: 11/14/2022 3:09:29 PM

Released to Imaging: 2/28/2023 8:17:10 AM

Liner Integrity Inspection Report

Name of Site: Snapping 2 State 14H **Project #:** DEV-20-016

Inspection Tech: Sosa, Jerry **Date of Inspection:** 07/31/20 **Time:** 1230 PM

Visual Inspection

Type of Secondary Containment:

- [ ] Earthen
- [ ] Clay
- [x] Supported, Coated Fabrics and Laminates
- [ ] Unsupported Geomembranes
- [ ] Steel
- [ ] Cement

Status:

- [x] Free Fluid in Secondary Containment
- [ ] Intermittent Pooling
- [x] Sump has Fluid
- [ ] Dry
- [ ] Release or leak traces inside containment
- [ ] Release or leak traces outside containment

Observations

Environmental Damage:

		Comments:
Damage from animals or vegetation compromising liner integrity	[x]	No Damage Found
Discoloration, erosion, or chemical degradation of the liner	[ ]	Slight Discoloration From Rust Pipe Supports, (Rain water)
Degradation of the liner system from storm water flow or erosion of the secondary containment system	[ ]	None

Physical Damage:

		Comments:
Cracks, bulges, stains, chips, seepages in the liner system	[x]	None Found
Improper or deferred maintenance of the liner system	[ ]	
Dike wall, foundation, or embankment movement, settlement, or deterioration compromising the integrity of the liner system	[ ]	None
Degradation of the liner system at penetrations (piping, supports, wells, foundations, pads, etc.)	[ ]	None Found all Blocks Pipes Supports Checked
Damage to the liner system from equipment, vehicles, foot traffic, frost heave, etc.	[ ]	Liner System is Straight No Damage
Evidence of foundation movement, settlement, or deterioration	[ ]	

Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

700-Location sign

701-SW corner facing North inside

702-SW corner facing North outside

703-SW corner facing East inside

Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

704-SW corner facing East outside

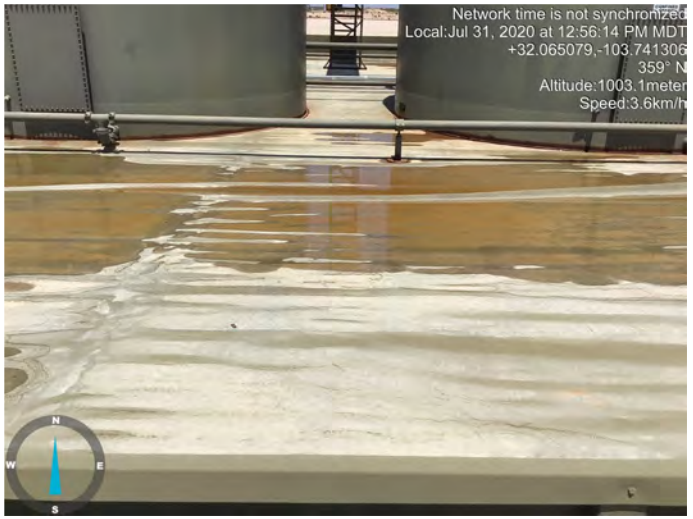
705-South side facing North inside

706-South side facing North inside

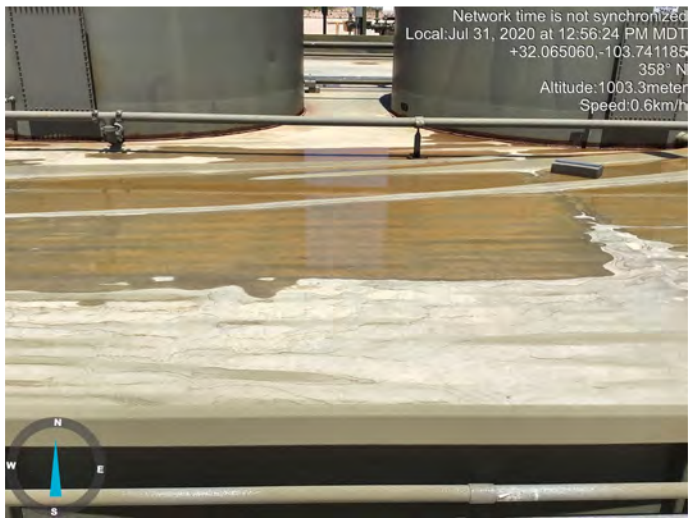
707-South side facing North inside

Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos



708-South side facing North inside



709-South side facing North inside

710-South side facing North inside

711-South side facing North inside

Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

712-SE corner facing North outside

713-SE corner facing West inside

714-SE corner facing West outside

715-East side facing West inside

Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

716-East side facing West inside

717-NE corner facing North Sump

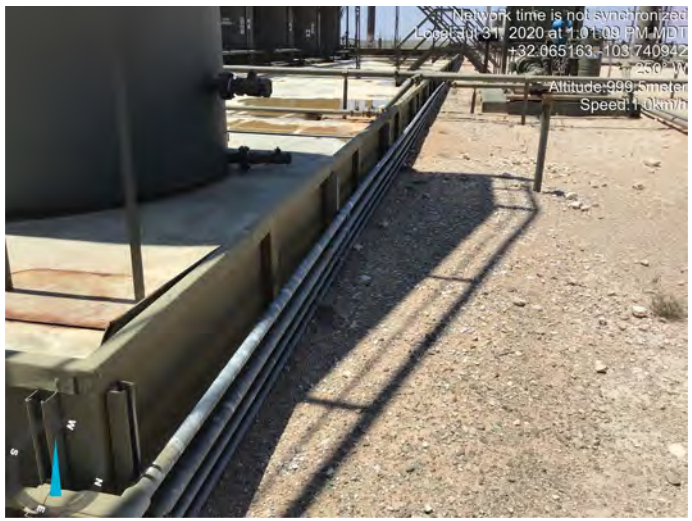
718-NE corner facing South inside

719-NE corner facing South outside

Devon, Snapping 2 State 14H Battery, DEV-20-016

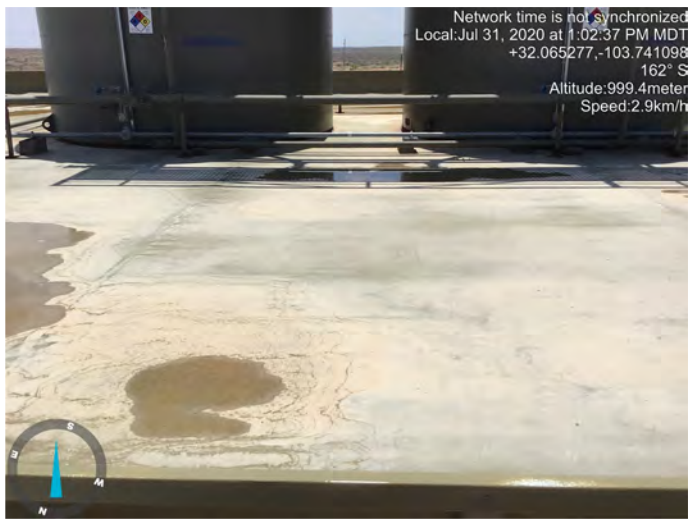
Liner/Containment Inspection Photos

720-NE corner facing West inside



721-NE corner facing West outside

722-North side facing South inside



723-North side facing South inside

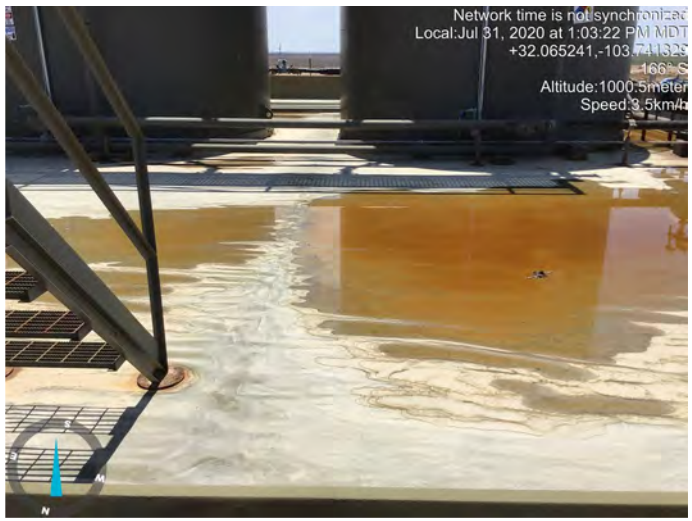
Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

724-North side facing South inside

725-North side facing South inside

726-North side facing South inside



727-North side facing South inside

Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

728-NW corner facing South outside

729-NW corner facing South inside

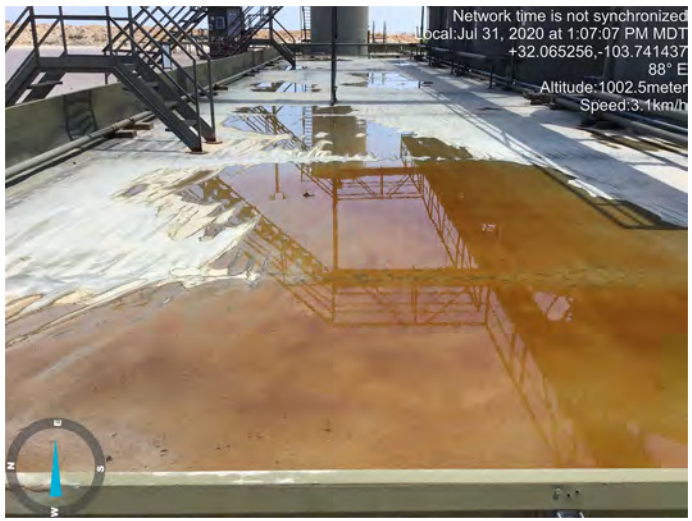
730-NW corner facing East inside

731-NW corner facing East outside

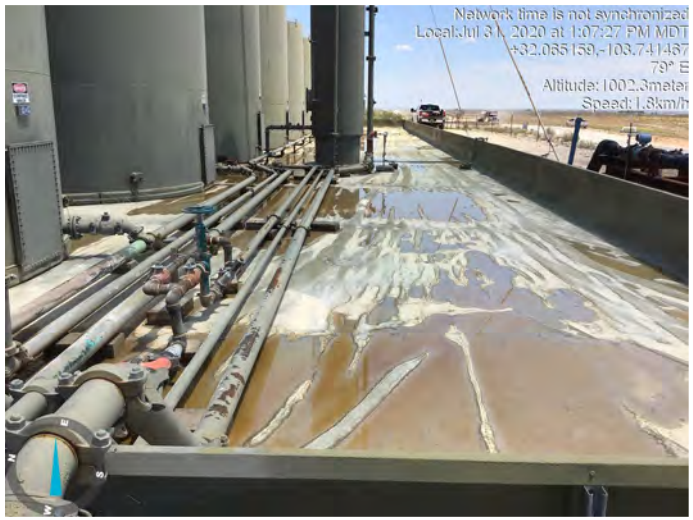
Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

732-NW corner facing North Sump



733-West side facing East inside



734-West side facing East inside

735-Center facing NE inside

Devon, Snapping 2 State 14H Battery, DEV-20-016

Liner/Containment Inspection Photos

736-Center facing NW inside

737-Center facing SE inside

738-Center facing SW inside

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 158660

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 158660
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAB1906632805 SNAPPING 2 STATE #014H, thank you. This closure is approved.	2/28/2023