Page 6

Oil Conservation Division

Incident ID	NAB1807555191
District RP	
Facility ID	
Application ID	

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### 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.

<u>Closure Report Attachment Checklist</u>: 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)

 $\checkmark$  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: <u>3/13/2023</u>
email: <u>dale.woodall@dvn.com</u>	Telephone:575-748-1838
OCD Only	
Received by: OCD	Date: 3/13/2023
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Ashley Maxwell	Date: 3/30/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist

# Devon Energy Production Company Snapping 10 Fed #1H Battery

Closure Report UL H, Section 10, T26S, R31E Eddy County, New Mexico NAB1807555191 (2RP-4661)

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 10 Fed #1H Battery concerning a 16 bbls oil release on location with overspray into the adjoining pasture. According to the C-141, failure of the back pressure valve caused the spill. Approximately 15.5 bbls were spilled on location and 0.5 bbls overspray into the pasture, no fluids were recovered. This site is situated in Eddy County, Section 10, Township 26S, and Range 31E.

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.

#### 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 250' **and** 260' bgs; however, since no wells less than 25 years old and less than a half mile away are known to be present, SESI will delineate this release to the most stringent criteria established by NMOCD.

#### Characterization

In March of 2020, SESI personnel performed sampling to determine vertical extent of the release on the pad, and subsequently sampled the pasture in April of 2020. SESI advanced 5 auger holes within the pad area, and 3 sample points in the pasture (sampling map attached). The samples were properly packaged and preserved and sent to Hall Environmental Laboratories for analysis. The results of the testing are captured in the summary below:

Devon Energy Snapping 10 Fed 1H Battery Soil Sample Results: Hall Environmental Laboratories 3/19/20 and 4/8/20											
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes			
AH1 @ SURFACE	600	390	8200	3900	0.18	6.6	1.7	17			
AH1 @ 1'	120	24	710	310	ND	ND	ND	0.50			
AH2 @ SURFACE	830	130	1600	570	ND	0.25	0.17	2.7			
AH2 @ 1'	120	27	650	300	ND	ND ND 0.55					
AH3 @ SURFACE	ND	4.9	350	170	ND	ND	ND	ND			
AH3 @ 1'	ND	ND	12	ND	ND	ND	ND	ND			
AH4 @ SURFACE	880	110	1600	550	ND	0.18	0.12	1.9			
AH4 @ 1'	ND	ND	16	ND	ND	ND	ND	ND			
AH5 @ SURFACE	ND	21	310	190	ND	ND	ND	0.31			
AH5 @ 1'	ND	ND	12	ND	ND	ND	ND	ND			

Pasture Samples 4/8/20									
SA9 @ SURFACE	ND	NS							
SA9 @ 1'	ND	ND	46	80	ND	ND	ND	ND	
SA10 @ SURFACE	ND	NS							
SA10 @ 1'	ND								
SA11 @ SURFACE	ND	NS							
SA11 @ 1'	ND								

#### Remediation

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 2 feet as practicable. In June of 2020, contaminated soil was excavated and removed. Confirmation samples of vertical and horizontal extent were taken to ensure remediation was successful. The samples were properly preserved and packaged then sent to Hall Laboratories for analysis. The results of the sampling is captured in the table below.

Devon Energy									
Snapping 10 Fed Th Battery									
SAMDLE ID Chlorido CDO DDO MDO Donzono Toluono Ethyl honzono Total Vylanos									
SAMPLEID	(ma/ka)	(ma/ka)	(ma/ka)	(ma/ka)	(ma/ka)	(ma/ka)	(ma/ka)	(ma/ka)	
<b>SP6 2'</b> RTM	(ing/kg)	(ITIY/KY)	(ITIY/KY)	(ITIY/KY)	(IIIY/KY) ND	(IIIY/KY) ND			
SP7 2'BTM	ND	ND	ND	ND	ND	ND	ND	ND	
SP8 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND	
	ND	ND	ND	ND	ND	ND	ND	ND	
	180	ND	ND	ND	ND	ND	ND	ND	
SP21 2' BTM	600	ND	ND	ND	ND	ND	ND	ND	
	000	ND	Horizo	ntal Exten	t ND	ND	ND	ND	
SP-11 WEST H	63	ND	34	76	ND	ND	ND	ND	
SP-12 FAST H	240	ND	ND	ND	ND	ND	ND	ND	
SP-13 WEST H	65	ND	35	80	ND	ND	ND	ND	
SP-14 FAST H	ND	ND	ND	ND	ND	ND	ND	ND	
SP-15 WEST H	190	ND	ND	ND	ND	ND	ND	ND	
SP-16 NORTH H	460	ND	ND	ND	ND	ND	ND	ND	
SP-17 NORTH H	ND	ND	29	94	ND	ND	ND	ND	
SP-18 FAST H	ND	ND	34	100	ND	ND	ND	ND	
SP-19 SOUTH H	ND	ND	31	100	ND	ND	ND	ND	
SP-20 WEST H	ND	ND	29	81	ND	ND	ND	ND	
		Hori	zontal Exte	ent Retest	- 7/22/20				
SP-H-11A	70	ND	ND	ND	ND	ND	ND	ND	
SP-H-13A	130	ND	ND	ND	ND	ND	ND	ND	
SP-H-17A	ND	ND	ND	ND	ND	ND	ND	ND	
SP-H-18A	ND	ND	ND	ND	ND	ND	ND	ND	
SP-H-19A	ND	ND	ND	ND	ND	ND	ND	ND	
SP-H-20A	ND	ND	ND	ND	ND	ND	ND	ND	

Once sample results verified both successful remediation and horizontal extent, the site was backfilled with clean soil. Pictures of the remediation are included in this report.

#### **Closure Request**

Based on the confirmation 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 this release. 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 2/6/20 - 7/22/20 C-141, pages 3-6



## **Devon Energy**

Snapping 10 Fed 1h Battery Soil Sample Results: Hall Environmental Laboratories 2RP-4661 SP and Horizontal Extent 6/17/20 Horizontal Extent Retest 7/22/20



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Received by OCD: 3/13/2023 7:47:24 AM



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# **Devon Energy**

Snapping 10 Fed 1H Battery Karst Map - High UL-H-Sec10-T26S-R31E

# 232.059217, -103.759247



Google Earth Released to Imaging: 3/30/2023 7:54:12 AM

1000 ft



**National Water Information System: Web Interface** 

**USGS Water Resources** 

 Data Category:
 Geographic Area:

 Groundwater
 V

 Go
 GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

\* IMPORTANT: <u>Next Generation Station Page</u>

#### Site Selection Results -- 7 sites found

**Site name contains string =** 26S.31E **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

#### Data for individual sites can be obtained by selecting the site number below

Aconey	Cite Number	Cite Name	Period of Record					
Адепсу	Site Number	Site Name	Begin Date	End Date	Levels			
USGS	320330103462401	26S.31E.08.321434	1983-02-16	1998-01-29	4			
USGS	320016103434201	26S.31E.35.13131	1983-02-14	1998-01-29	4			
USGS	320424103415401	26S.31E.01.421322	1983-01-26	1987-10-21	3			
USGS	320001103433501	26S.31E.35.312333	1964-03-30	1964-03-30	1			
USGS	320330103462501	26S.31E.08.32143	1959-02-18	1959-02-18	1			
USGS	320329103462501	26S.31E.08.321433	1949-03-10	1958-08-18	2			
USGS	320425103415401	26S.31E.01.42110	1949-03-10	1949-03-10	1			

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater levels -- 7 sites found URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?





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

March 30, 2020

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

RE: Devon Snapping 10 Fed 1h 20836060

OrderNo.: 2003986

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/21/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Lab ID: Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 Fed 1h 20836060

**CLIENT:** Safety & Environmental Solutions

2003986-001

Client Sample ID: AH-1 Surface Collection Date: 3/19/2020 10:15:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	ЈМТ
Chloride	600	60		mg/Kg	20	3/26/2020 11:00:39 PM	51353
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	390	49		mg/Kg	10	3/26/2020 4:12:30 PM	51277
Surr: BFB	104	70-130		%Rec	10	3/26/2020 4:12:30 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS					Analyst	BRM
Diesel Range Organics (DRO)	8200	92		mg/Kg	10	3/25/2020 1:18:39 AM	51283
Motor Oil Range Organics (MRO)	3900	460		mg/Kg	10	3/25/2020 1:18:39 AM	51283
Surr: DNOP	0	55.1-146	S	%Rec	10	3/25/2020 1:18:39 AM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	RAA
Benzene	0.18	0.025		mg/Kg	1	3/25/2020 2:04:39 PM	51277
Toluene	6.6	0.49		mg/Kg	10	3/26/2020 4:12:30 PM	51277
Ethylbenzene	1.7	0.049		mg/Kg	1	3/25/2020 2:04:39 PM	51277
Xylenes, Total	17	0.99		mg/Kg	10	3/26/2020 4:12:30 PM	51277
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	3/25/2020 2:04:39 PM	51277
Surr: 4-Bromofluorobenzene	69.1	70-130	S	%Rec	1	3/25/2020 2:04:39 PM	51277
Surr: Dibromofluoromethane	92.4	70-130		%Rec	1	3/25/2020 2:04:39 PM	51277
Surr: Toluene-d8	93.8	70-130		%Rec	1	3/25/2020 2:04:39 PM	51277

Matrix: SOIL

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

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Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 Fed 1h 20836060Lab ID:2003986-002Matrix: SOIL

Client Sample ID: AH-1 1ft Collection Date: 3/19/2020 10:25:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	120	60	mg/Kg	20	3/26/2020 11:13:00 PM	51353
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	24	4.9	mg/Kg	1	3/25/2020 3:58:48 PM	51277
Surr: BFB	109	70-130	%Rec	1	3/25/2020 3:58:48 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	710	8.9	mg/Kg	1	3/25/2020 1:42:52 AM	51283
Motor Oil Range Organics (MRO)	310	45	mg/Kg	1	3/25/2020 1:42:52 AM	51283
Surr: DNOP	109	55.1-146	%Rec	1	3/25/2020 1:42:52 AM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	3/25/2020 3:58:48 PM	51277
Toluene	ND	0.049	mg/Kg	1	3/25/2020 3:58:48 PM	51277
Ethylbenzene	ND	0.049	mg/Kg	1	3/25/2020 3:58:48 PM	51277
Xylenes, Total	0.50	0.099	mg/Kg	1	3/25/2020 3:58:48 PM	51277
Surr: 1,2-Dichloroethane-d4	87.4	70-130	%Rec	1	3/25/2020 3:58:48 PM	51277
Surr: 4-Bromofluorobenzene	82.2	70-130	%Rec	1	3/25/2020 3:58:48 PM	51277
Surr: Dibromofluoromethane	94.0	70-130	%Rec	1	3/25/2020 3:58:48 PM	51277
Surr: Toluene-d8	93.4	70-130	%Rec	1	3/25/2020 3:58:48 PM	51277

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

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**Project:** 

Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 Fed 1h 20836060

**CLIENT:** Safety & Environmental Solutions

Client Sample ID: AH-2 Surface Collection Date: 3/19/2020 10:55:00 AM Received Date: 3/21/2020 8:06:00 AM

Lab ID: 2003986-003	Matrix: SOIL		<b>Received Date:</b> 3/21/2020 8:06:00 AM					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst:	ЈМТ	
Chloride	830	60		mg/Kg	20	3/26/2020 11:25:23 PM	51353	
EPA METHOD 8015D MOD: GASOLINE RA	NGE					Analyst:	RAA	
Gasoline Range Organics (GRO)	130	5.0		mg/Kg	1	3/25/2020 5:24:03 PM	51277	
Surr: BFB	122	70-130		%Rec	1	3/25/2020 5:24:03 PM	51277	
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS					Analyst:	BRM	
Diesel Range Organics (DRO)	1600	89		mg/Kg	10	3/25/2020 2:52:49 PM	51283	
Motor Oil Range Organics (MRO)	570	440		mg/Kg	10	3/25/2020 2:52:49 PM	51283	
Surr: DNOP	0	55.1-146	S	%Rec	10	3/25/2020 2:52:49 PM	51283	
EPA METHOD 8260B: VOLATILES SHORT	LIST					Analyst:	RAA	
Benzene	ND	0.025		mg/Kg	1	3/25/2020 5:24:03 PM	51277	
Toluene	0.25	0.050		mg/Kg	1	3/25/2020 5:24:03 PM	51277	
Ethylbenzene	0.17	0.050		mg/Kg	1	3/25/2020 5:24:03 PM	51277	
Xylenes, Total	2.7	0.099		mg/Kg	1	3/25/2020 5:24:03 PM	51277	
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	1	3/25/2020 5:24:03 PM	51277	
Surr: 4-Bromofluorobenzene	72.5	70-130		%Rec	1	3/25/2020 5:24:03 PM	51277	
Surr: Dibromofluoromethane	97.1	70-130		%Rec	1	3/25/2020 5:24:03 PM	51277	
Surr: Toluene-d8	93.2	70-130		%Rec	1	3/25/2020 5:24:03 PM	51277	

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

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Project: Lab ID: Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 Fed 1h 20836060

**CLIENT:** Safety & Environmental Solutions

2003986-004

Client Sample ID: AH-2 1ft Collection Date: 3/19/2020 10:45:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	120	60	mg/Kg	20	3/27/2020 12:02:25 AM	51356
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	27	4.9	mg/Kg	1	3/25/2020 5:52:35 PM	51277
Surr: BFB	112	70-130	%Rec	1	3/25/2020 5:52:35 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	650	9.5	mg/Kg	1	3/25/2020 2:31:05 AM	51283
Motor Oil Range Organics (MRO)	300	48	mg/Kg	1	3/25/2020 2:31:05 AM	51283
Surr: DNOP	108	55.1-146	%Rec	1	3/25/2020 2:31:05 AM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	3/25/2020 5:52:35 PM	51277
Toluene	ND	0.049	mg/Kg	1	3/25/2020 5:52:35 PM	51277
Ethylbenzene	ND	0.049	mg/Kg	1	3/25/2020 5:52:35 PM	51277
Xylenes, Total	0.55	0.098	mg/Kg	1	3/25/2020 5:52:35 PM	51277
Surr: 1,2-Dichloroethane-d4	89.0	70-130	%Rec	1	3/25/2020 5:52:35 PM	51277
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	3/25/2020 5:52:35 PM	51277
Surr: Dibromofluoromethane	93.8	70-130	%Rec	1	3/25/2020 5:52:35 PM	51277
Surr: Toluene-d8	94.3	70-130	%Rec	1	3/25/2020 5:52:35 PM	51277

Matrix: SOIL

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

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Project: Lab ID: Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 Fed 1h 20836060

**CLIENT:** Safety & Environmental Solutions

2003986-005

 Client Sample ID: AH-3 Surface

 060
 Collection Date: 3/19/2020 10:55:00 AM

 Matrix: SOIL
 Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	3/27/2020 12:39:26 AM	51356
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	4.9	4.8	mg/Kg	1	3/25/2020 6:21:19 PM	51277
Surr: BFB	106	70-130	%Rec	1	3/25/2020 6:21:19 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	350	9.0	mg/Kg	1	3/25/2020 2:55:03 AM	51283
Motor Oil Range Organics (MRO)	170	45	mg/Kg	1	3/25/2020 2:55:03 AM	51283
Surr: DNOP	103	55.1-146	%Rec	1	3/25/2020 2:55:03 AM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	3/25/2020 6:21:19 PM	51277
Toluene	ND	0.048	mg/Kg	1	3/25/2020 6:21:19 PM	51277
Ethylbenzene	ND	0.048	mg/Kg	1	3/25/2020 6:21:19 PM	51277
Xylenes, Total	ND	0.097	mg/Kg	1	3/25/2020 6:21:19 PM	51277
Surr: 1,2-Dichloroethane-d4	86.3	70-130	%Rec	1	3/25/2020 6:21:19 PM	51277
Surr: 4-Bromofluorobenzene	88.1	70-130	%Rec	1	3/25/2020 6:21:19 PM	51277
Surr: Dibromofluoromethane	95.4	70-130	%Rec	1	3/25/2020 6:21:19 PM	51277
Surr: Toluene-d8	94.3	70-130	%Rec	1	3/25/2020 6:21:19 PM	51277

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

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Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 Fed 1h 20836060Lab ID:2003986-006Matrix:SOIL

Client Sample ID: AH-3 1ft Collection Date: 3/19/2020 11:05:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/27/2020 1:16:28 AM	51356
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/25/2020 6:49:47 PM	51277
Surr: BFB	104	70-130	%Rec	1	3/25/2020 6:49:47 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	12	8.7	mg/Kg	1	3/25/2020 3:19:10 AM	51283
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	3/25/2020 3:19:10 AM	51283
Surr: DNOP	93.8	55.1-146	%Rec	1	3/25/2020 3:19:10 AM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	3/25/2020 6:49:47 PM	51277
Toluene	ND	0.049	mg/Kg	1	3/25/2020 6:49:47 PM	51277
Ethylbenzene	ND	0.049	mg/Kg	1	3/25/2020 6:49:47 PM	51277
Xylenes, Total	ND	0.098	mg/Kg	1	3/25/2020 6:49:47 PM	51277
Surr: 1,2-Dichloroethane-d4	83.1	70-130	%Rec	1	3/25/2020 6:49:47 PM	51277
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	3/25/2020 6:49:47 PM	51277
Surr: Dibromofluoromethane	93.0	70-130	%Rec	1	3/25/2020 6:49:47 PM	51277
Surr: Toluene-d8	93.2	70-130	%Rec	1	3/25/2020 6:49:47 PM	51277

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

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Project: Lab ID: Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 Fed 1h 20836060

**CLIENT:** Safety & Environmental Solutions

2003986-007

Client Sample ID: AH-4 Surface Collection Date: 3/19/2020 11:15:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	880	60		mg/Kg	20	3/27/2020 1:28:48 AM	51356
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	110	4.7		mg/Kg	1	3/25/2020 7:18:11 PM	51277
Surr: BFB	116	70-130		%Rec	1	3/25/2020 7:18:11 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	1600	87		mg/Kg	10	3/25/2020 3:17:26 PM	51283
Motor Oil Range Organics (MRO)	550	440		mg/Kg	10	3/25/2020 3:17:26 PM	51283
Surr: DNOP	0	55.1-146	S	%Rec	10	3/25/2020 3:17:26 PM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	3/25/2020 7:18:11 PM	51277
Toluene	0.18	0.047		mg/Kg	1	3/25/2020 7:18:11 PM	51277
Ethylbenzene	0.12	0.047		mg/Kg	1	3/25/2020 7:18:11 PM	51277
Xylenes, Total	1.9	0.095		mg/Kg	1	3/25/2020 7:18:11 PM	51277
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%Rec	1	3/25/2020 7:18:11 PM	51277
Surr: 4-Bromofluorobenzene	70.6	70-130		%Rec	1	3/25/2020 7:18:11 PM	51277
Surr: Dibromofluoromethane	92.8	70-130		%Rec	1	3/25/2020 7:18:11 PM	51277
Surr: Toluene-d8	89.8	70-130		%Rec	1	3/25/2020 7:18:11 PM	51277

Matrix: SOIL

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

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Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 Fed 1h 20836060Lab ID:2003986-008Matrix: SOIL

Client Sample ID: AH-4 1ft Collection Date: 3/19/2020 11:25:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/27/2020 1:41:08 AM	51356
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/25/2020 7:46:48 PM	51277
Surr: BFB	108	70-130	%Rec	1	3/25/2020 7:46:48 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst	BRM
Diesel Range Organics (DRO)	16	9.5	mg/Kg	1	3/25/2020 4:31:18 AM	51283
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/25/2020 4:31:18 AM	51283
Surr: DNOP	96.1	55.1-146	%Rec	1	3/25/2020 4:31:18 AM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	3/25/2020 7:46:48 PM	51277
Toluene	ND	0.049	mg/Kg	1	3/25/2020 7:46:48 PM	51277
Ethylbenzene	ND	0.049	mg/Kg	1	3/25/2020 7:46:48 PM	51277
Xylenes, Total	ND	0.098	mg/Kg	1	3/25/2020 7:46:48 PM	51277
Surr: 1,2-Dichloroethane-d4	87.8	70-130	%Rec	1	3/25/2020 7:46:48 PM	51277
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	3/25/2020 7:46:48 PM	51277
Surr: Dibromofluoromethane	94.6	70-130	%Rec	1	3/25/2020 7:46:48 PM	51277
Surr: Toluene-d8	96.6	70-130	%Rec	1	3/25/2020 7:46:48 PM	51277

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

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Project: Lab ID: Analytical Report Lab Order 2003986

Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 Fed 1h 20836060

**CLIENT:** Safety & Environmental Solutions

2003986-009

Client Sample ID: AH-5 Surface Collection Date: 3/19/2020 11:35:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	3/27/2020 1:53:28 AM	51356
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	21	4.9	mg/Kg	1	3/25/2020 8:15:21 PM	51277
Surr: BFB	104	70-130	%Rec	1	3/25/2020 8:15:21 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst	BRM
Diesel Range Organics (DRO)	310	9.3	mg/Kg	1	3/25/2020 4:55:19 AM	51283
Motor Oil Range Organics (MRO)	190	47	mg/Kg	1	3/25/2020 4:55:19 AM	51283
Surr: DNOP	106	55.1-146	%Rec	1	3/25/2020 4:55:19 AM	51283
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	3/25/2020 8:15:21 PM	51277
Toluene	ND	0.049	mg/Kg	1	3/25/2020 8:15:21 PM	51277
Ethylbenzene	ND	0.049	mg/Kg	1	3/25/2020 8:15:21 PM	51277
Xylenes, Total	0.31	0.098	mg/Kg	1	3/25/2020 8:15:21 PM	51277
Surr: 1,2-Dichloroethane-d4	86.1	70-130	%Rec	1	3/25/2020 8:15:21 PM	51277
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	3/25/2020 8:15:21 PM	51277
Surr: Dibromofluoromethane	91.3	70-130	%Rec	1	3/25/2020 8:15:21 PM	51277
Surr: Toluene-d8	95.3	70-130	%Rec	1	3/25/2020 8:15:21 PM	51277

Matrix: SOIL

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

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Date Reported: 3/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 Fed 1h 20836060Lab ID:2003986-010Matrix: SOIL

Client Sample ID: AH-5 1ft Collection Date: 3/19/2020 11:50:00 AM Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	3/27/2020 2:05:49 AM	51356
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/25/2020 8:43:48 PM	51277
Surr: BFB	102	70-130	%Rec	1	3/25/2020 8:43:48 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	12	9.7	mg/Kg	1	3/25/2020 6:59:28 PM	51299
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/25/2020 6:59:28 PM	51299
Surr: DNOP	111	55.1-146	%Rec	1	3/25/2020 6:59:28 PM	51299
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	3/25/2020 8:43:48 PM	51277
Toluene	ND	0.046	mg/Kg	1	3/25/2020 8:43:48 PM	51277
Ethylbenzene	ND	0.046	mg/Kg	1	3/25/2020 8:43:48 PM	51277
Xylenes, Total	ND	0.093	mg/Kg	1	3/25/2020 8:43:48 PM	51277
Surr: 1,2-Dichloroethane-d4	80.2	70-130	%Rec	1	3/25/2020 8:43:48 PM	51277
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	3/25/2020 8:43:48 PM	51277
Surr: Dibromofluoromethane	95.7	70-130	%Rec	1	3/25/2020 8:43:48 PM	51277
Surr: Toluene-d8	91.9	70-130	%Rec	1	3/25/2020 8:43:48 PM	51277

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

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### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Safety Project: Devon	& Environmental Solutions Snapping 10 Fed 1h 20836060			
	CompTuper while	TestOrder EDA Mathed	000.0.4	
Sample ID: MB-51353	SampType: <b>mbik</b>	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 51353	RunNo: 67593		
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334151	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-51353	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 51353	RunNo: 67593		
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334152	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 92.7 90	110	
Sample ID: MB-51356	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 51356	RunNo: 67593		
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334183	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-51356	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 51356	RunNo: 67593		
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334184	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 92.0 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

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### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Safety &	Environm	ental So	olutions							
	Devon Si	apping IC	) Fed In	20836060							
Sample ID:	MB-51283	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batc	h ID: <b>51</b>	283	F	RunNo: <b>6</b>	7512				
Prep Date:	3/24/2020	Analysis E	Date: 3/	24/2020	5	SeqNo: 2	330406	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50				/				
Surr: DNOP		9.6		10.00		95.5	55.1	146			
Sample ID:	LCS-51283	SampT	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batc	h ID: <b>51</b>	283	F	RunNo: 6	7512				
Prep Date:	3/24/2020	Analysis E	Date: 3/	24/2020	5	SeqNo: 2	330509	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	45	10	50.00	0	89.2	70	130			
Surr: DNOP		4.3		5.000		86.4	55.1	146			
Sample ID:	MB-51257	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batc	h ID: 51	257	F	RunNo: 6	7512				
Prep Date:	3/23/2020	Analysis E	Date: 3/	24/2020	S	SeqNo: <b>2</b> :	330911	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.0		10.00		90.4	55.1	146			
Sample ID:	LCS-51257	SampT	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batc	h ID: <b>51</b>	257	F	RunNo: 6	7512				
Prep Date:	3/23/2020	Analysis E	Date: 3/	24/2020	S	SeqNo: <b>2</b> :	331072	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4		5.000		88.8	55.1	146			
Sample ID:	LCS-51299	SampT	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batc	h ID: 51	299	F	RunNo: 6	7548				
Prep Date:	3/24/2020	Analysis E	Date: 3/	25/2020	S	SeqNo: <b>2</b> :	332705	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	60	10	50.00	0	120	70	130			
Surr: DNOP		5.3		5.000		105	55.1	146			
Sample ID:	MB-51299	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batc	h ID: <b>51</b>	299	F	RunNo: <b>6</b>	7548				
Prep Date:	3/24/2020	Analysis E	Date: 3/	25/2020	S	SeqNo: <b>2</b> :	332706	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								

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

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Client:SafeProject:Deve	ty & Environm on Snapping 10	ental So ) Fed 1h	olutions 1 20836060								
Sample ID: MB-51299	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batc	h ID: <b>51</b> :	299	F	RunNo: 67	7548					
Prep Date: 3/24/2020	Analysis [	Date: 3/	25/2020	S	SeqNo: 2	332706	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Motor Oil Range Organics (MRC	)) ND	50									
Surr: DNOP	11		10.00		113	55.1	146				

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

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30-Mar-20

**Client:** 

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

Project: Devon Si	napping 10	Fed 1h	20836060							
Sample ID: Ics-51277	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batch	n ID: <b>51</b> 2	277	F	RunNo: 6	7556				
Prep Date: 3/23/2020	Analysis D	)ate: 3/	25/2020	S	SeqNo: 2	332308	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.1	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.2	70	130			
Sample ID: mb-51277	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: <b>51</b> 2	277	F	RunNo: 6	7556				
Prep Date: 3/23/2020	Analysis D	)ate: 3/	25/2020	S	SeqNo: 2	332310	Units: mg/K	g		
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	0.45		0.5000		89.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.5	70	130			
Surr: Toluene-d8	0.49		0.5000		97.3	70	130			
Sample ID: 2003986-001ams	SampT	уре: <b>М</b>	3	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: AH-1 Surface	Batch	n ID: <b>51</b> 2	277	F	RunNo: 6	7556				
Prep Date: 3/23/2020	Analysis D	0ate: 3/	25/2020	S	SeqNo: 2	332974	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9794	0.1810	87.9	70	130			
Toluene	6.8	0.049	0.9794	6.078	73.7	70	130			Е
Ethylbenzene	2.7	0.049	0.9794	1.733	100	70	130			
Xylenes, Total	19	0.098	2.938	16.03	92.3	70	130			E
Surr: 1,2-Dichloroethane-d4	0.46		0.4897		94.0	70	130			
Surr: 4-Bromofluorobenzene	0.35		0.4897		70.8	70	130			
Surr: Dibromofluoromethane	0.45		0		0	70	130			
Surr: Toluene-d8	0.45		0.4897		92.7	70	130			
Sample ID: 2003986-001amsc	I SampT	ype: MS	SD	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: AH-1 Surface	Batch	n ID: <b>51</b> 2	277	F	RunNo: 6	7556				
Prep Date: 3/23/2020	Analysis D	0ate: <b>3/</b>	25/2020	S	SeqNo: 2	332975	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to MatrixH 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

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2003986

30-Mar-20

**Client:** 

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

Project: Devon Sr	apping 10	Fed 1h	20836060							
Sample ID: 2003986-001amsd	SampT	ype: <b>MS</b>	D	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: AH-1 Surface	Batch	n ID: 512	277	R	unNo: 67	7556				
Prep Date: 3/23/2020	Analysis D	Date: 3/2	25/2020	S	eqNo: 23	332975	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9766	0.1810	88.4	70	130	0.233	20	
Toluene	6.7	0.049	0.9766	6.078	60.0	70	130	2.01	20	ES
Ethylbenzene	2.7	0.049	0.9766	1.733	95.0	70	130	2.07	0	
Xylenes, Total	18	0.098	2.930	16.03	81.6	70	130	1.72	0	Е
Surr: 1,2-Dichloroethane-d4	0.47		0.4883		97.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.34		0.4883		68.8	70	130	0	0	S
Surr: Dibromofluoromethane	0.47		0.4883		95.7	70	130	0	0	
Surr: Toluene-d8	0.47		0.4883		95.3	70	130	0	0	
Sample ID: Ics-51320	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batch	n ID: 513	320	R	unNo: 67	7600				
Prep Date: 3/25/2020	Analysis D	Date: 3/2	26/2020	S	eqNo: 23	334318	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.1	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.8	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			
Sample ID: mb-51320	SampT	ype: <b>MB</b>	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: 513	320	R	unNo: 67	7600				
Prep Date: 3/25/2020	Analysis D	Date: 3/2	26/2020	S	eqNo: 23	334319	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.5	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.7	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.51		0.5000		103	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

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2003986

30-Mar-20

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Safety & Devon Sr	Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmente Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter Environmenter	ental So Fed 11	olutions 1 20836060							
Sample ID:	lcs-51277	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	LCSS	Batch	n ID: 51	277	F	RunNo: 6	7556				
Prep Date:	3/23/2020	Analysis D	)ate: 3/	/25/2020	S	SeqNo: 2	332351	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	20 500	5.0	25.00 500.0	0	80.5 99.8	70 70	130 130			
Sample ID:	mb-51277	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	PBS	Batch	n ID: <b>51</b>	277	F	RunNo: 6	7556				
Prep Date:	3/23/2020	Analysis D	)ate: 3/	/25/2020	S	SeqNo: 2	332359	Units: <b>mg/K</b>	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 500	5.0	500.0		101	70	130			
Sample ID:	2003986-002ams	SampT	ype: M	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	AH-1 1ft	Batch	n ID: <b>51</b>	277	F	RunNo: <b>6</b>	7556				
Prep Date:	3/23/2020	Analysis D	)ate: 3/	/25/2020	S	SeqNo: 2	332998	Units: <b>mg/K</b>	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	46 550	4.9	24.30 485.9	24.40	89.1 113	70 70	130 130			
Sample ID:	2003986-002amsd	I SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	AH-1 1ft	Batch	n ID: <b>51</b>	277	F	RunNo: 6	7556				
Prep Date:	3/23/2020	Analysis D	)ate: 3/	/25/2020	5	SeqNo: 2	332999	Units: <b>mg/K</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	42	4.6	23.17	24.40	77.7	70	130	8.28	20	
Surr: BFB		520		463.4		112	70	130	0	0	
Sample ID:	lcs-51320	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	LCSS	Batch	n ID: <b>51</b>	320	F	RunNo: <b>6</b>	7600				
Prep Date:	3/25/2020	Analysis D	)ate: 3/	/26/2020	S	SeqNo: 2	334355	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		470		500.0		93.3	70	130			
Sample ID:	mb-51320	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	PBS	Batch	n ID: <b>51</b>	320	F	RunNo: <b>6</b>	7600				
Prep Date:	3/25/2020	Analysis D	)ate: 3/	/26/2020	S	SeqNo: 2	334356	Units: %Ree	C		
Analyte		Result		SPK value	SPK Ref Val		Lowlimit	Highl imit		<b>PDD</b> imit	Qual
		Result	FQL	SI IN Value		/MREC	LOWLINII	riigii∟iiiit	/0RFD	KFDLIIIII	Quai

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

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2003986

30-Mar-20

ENVIRONMENTAL ANALYSIS LABORATORY		Hall Environme TEL: 505-345-3 Website: ww	ntal Analysis Labor 4901 Hawkii Albuquerque, NM 8 8975 FAX: 505-345- w.hallenvironmenta	atory 18 NE 17109 <b>San</b> 4107 1.com	Sample Log-In Check List				
Client Name:	Safety Env Solutions	Work Order Num	ber: 2003986		RcptNo: 1				
Received By:	Yazmine Garduno	3/21/2020 8:06:00	AM	Alexandre (ilforderet	5				
Completed By:	Yazmine Garduno	3/21/2020 11:07:2	2 AM	Appain (Badent	5				
Reviewed By:	S	3 23 20		0 6 6					
Chain of Cus	tody								
1. Is Chain of C	ustody sufficiently complete	1?	Yes 🗹	No 🗌	Not Present				
2. How was the	sample delivered?		Courier						
Log In 3. Was an atter	not made to cool the sample	5e?	Yee M						
4. Were all samp	oles received at a temperati	ure of >0° C to 6.0°C	Yes 🗹	No 🗌					
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌					
6. Sufficient sam	ple volume for indicated tes	st(s)?	Yes 🔽	No 🗌					
7. Are samples (	except VOA and ONG) prop	perly preserved?	Yes 🗹	No 🗌					
8. Was preserva	tive added to bottles?		Yes	No 🖌	NA 🗌				
9. Received at le	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗹				
10, Were any san	nple containers received bro	oken?	Yes	No 🗹 🏻					
11. Does paperwo	ork match bottle labels?		Yes 🗹	No 🗌	# of preserved bottles checked for pH:				
2 Are matrices o	correctly identified on Chain	of Custody?	Ves 🗸	No 🗌	(<2 or >12 unless noted) Adjusted?				
3. Is it clear what	analyses were requested?	or outloby:	Yes 🖌						
14. Were all holdir (If no, notify cu	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 🗋	Checked by: 1)AI) 3/23/20				
Special Handl	ing (if applicable)								
15. Was client no	tified of all discrepancies w	th this order?	Yes	No 🗌	NA 🗹				
Person	Notified:	Date							
By Who	m:	Via:	eMail 🗌 P	hone 🗌 Fax	In Person				
Regardi	ng:								
					The course officiency of models of a course of				
10. Additional rer	narks: mation								
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By					
2		**************************************							

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Page 1 of 1

R	eceive	ed by	<u>0C1</u>	<b>D:</b> 3/1	13/2	023	<u>:47</u>	:24 A	I <u>M</u>							-	_			_							Pa	ge 28 (	o <b>f 92</b>
		ANAL ENVIKONMENTAL	www hallenvironmental com	01 Hawkins NE - Albuquerque, NM 87109	el. 505-345-3975 Fax 505-345-4107	Analysis Request	50₄ (111)	JP2e S <sup>†</sup> , S IMS	2 PG	808 808	(200 1000 (200 (200 (200 (200 (200) (20) (2	stici atho 83° (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC ) (AC) (AC	<ul> <li>✓ Col</li> <li< td=""><td>8081 2014 2014 2014 2014 2014 2014 2014 201</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>( UEVON DIRE)</td><td></td><td>Any sub-contracted data will be clearly notated on the analytical report.</td></li<></ul>	8081 2014 2014 2014 2014 2014 2014 2014 201													( UEVON DIRE)		Any sub-contracted data will be clearly notated on the analytical report.
				46	ŀ		(О) (L	208)	Oਮ s.ਸ		) 280 / ਤ		801		X	-								X	,	 emarks	10		ssibility.
(NORO)	Turn-Around Time: 5 Day	□ Standard □ Rush	Project Name: Deubry IL	www.20836060	Project #:	NW-20-011	Project Manager:	Alle Dog		Sampler: PW AAW	UNICE If Tes _ UNO	Cooler Temp(including cF): 0.1 - 0.2 0.5 (°C)	2	Container Preservative HEAL No Type and # Type		700- /		1 - 00M		×00°	1 1.00- 1	( 1 -004	1 - Wa			Received by Via: Date Time Re	Barching Will S 20/20 1 700	1/ COMMEN 3/21/20 DSOU	ontracted to other accredited laboratories. This serves as notice of this po
	Chain-of-Custody Record	Client: Salidy & GUVINONMEND	Salutions	Mailing Address: 703 E. CliNTON	KOBBS NM 88240	Phone #: 575-397-0510	email or Fax#:	QA/QC Package:		Compliance				Date Time Matrix Sample Name	oblig 1015 5 AH-1 Surfere	1 1025 5 AH-1 12+	10551 5 AH-2 Surtru	1 1045 5 Ath 2 1 GT	1 1055 5 AH-3 Surface	1 105 5 Att 3, 1 AT	1 115 5 AM of Surgare	1 125 5 ALT 1FT	1 1(37) 5 AA-5 Survey	03/14 1(50) 5 AH-5 145		Value: Time: Reinquished by:	Date: Time: Relinitieshed hv:	340 1900 Charlet of Sac	If necessary, samples submitted to Hall Environmental may be subco



June 04, 2020

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

RE: Ross Ranch

OrderNo.: 2004552

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 22 sample(s) on 4/11/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 17, 2020.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall E	nvironmental Ana		Analytical Report Lab Order 2004552 Date Reported: 6/4/2020				
CLIENT:	Safety & Environmental S	Solutions	Client	t Sample II	D: SA	A9 Surface	
Project:	Ross Ranch		Coll	ection Date	e:4/8	3/2020 2:10:00 PM	
Lab ID:	2004552-009	Matrix: SOIL	Re	ceived Dat	e: 4/1	1/2020 10:00:00 AM	
Analyses		Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analys	t: CAS
Chloride		ND	60	mg/Kg	20	4/15/2020 8:13:19 PM	51819

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

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Hall Environmental Ana	lysis Laboratory, In	IC.	Analytical Report Lab Order 2004552 Date Reported: 6/4/202						
CLIENT: Safety & Environmental	Solutions	Clien	t Sample II	<b>D:</b> SA	A10 Surface				
Project: Ross Ranch		Collection Date: 4/8/2020 2:40:00 PM							
Lab ID: 2004552-010	Matrix: SOIL	Re	ceived Dat	<b>e:</b> 4/	1/2020 10:00:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: CAS			
Chloride	ND	60	mg/Kg	20	4/15/2020 8:25:43 PM	51819			

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

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Hall Environment	al Analysis Laboratory, Inc.		Analytical Report Lab Order 2004552 Date Reported: 6/4/202	0					
CLIENT: Safety & Envir	onmental Solutions	Client	Sample II	D: SA	A11 Surface				
Project: Ross Ranch		Collection Date: 4/8/2020 3:10:00 PM							
Lab ID: 2004552-011	Matrix: SOIL	Rec	ceived Dat	e: 4/	11/2020 10:00:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: AN	ONS				Analyst	CAS			
Chloride	ND	61	mg/Kg	20	4/15/2020 8:38:07 PM	51819			

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

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Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004552

Date Reported: 6/4/2020

4/15/2020 2:43:23 AM

4/15/2020 2:43:23 AM

4/15/2020 2:43:23 AM

51747

51747

51747

CLIENT:	Safety & Environmental Sc	olutions	ions Client Sample ID: SA9 1Ft										
Project:	Ross Ranch		(	Collection Date	e:4/8	3/2020 2:20:00 PM							
Lab ID:	2004552-020	Matrix: SOIL		<b>Received Date:</b> 4/11/2020 10:00:00 AM									
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA ME	THOD 300.0: ANIONS					Analyst	: JMT						
Chloride		ND	60	mg/Kg	20	4/15/2020 8:13:07 PM	51836						
EPA ME	THOD 8015D MOD: GASOL	INE RANGE				Analyst	: JMR						
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	4/15/2020 2:43:23 AM	51747						
Surr:	BFB	97.4	70-130	%Rec	1	4/15/2020 2:43:23 AM	51747						
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: JME						
Diesel R	ange Organics (DRO)	46	9.6	mg/Kg	1	4/14/2020 4:18:18 PM	51754						
Motor O	il Range Organics (MRO)	80	48	mg/Kg	1	4/14/2020 4:18:18 PM	51754						
Surr:	DNOP	93.7	55.1-146	%Rec	1	4/14/2020 4:18:18 PM	51754						
EPA ME	THOD 8260B: VOLATILES S	SHORT LIST				Analyst	: JMR						
Benzene	9	ND	0.025	mg/Kg	1	4/15/2020 2:43:23 AM	51747						
Toluene		ND	0.050	mg/Kg	1	4/15/2020 2:43:23 AM	51747						
Ethylber	izene	ND	0.050	mg/Kg	1	4/15/2020 2:43:23 AM	51747						
Xylenes,	Total	ND	0.099	mg/Kg	1	4/15/2020 2:43:23 AM	51747						
Surr:	1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	4/15/2020 2:43:23 AM	51747						

94.6

99.9

93.5

70-130

70-130

70-130

%Rec

%Rec 1

%Rec 1

1

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004552

Date Reported: 6/4/2020

4/15/2020 3:11:42 AM

51747

51747

51747

51747

51747

CLIENT: Safety & Environmental Solutions	8	Client Sample ID: SA10 1Ft									
Project: Ross Ranch		(	Collection Dat	<b>e:</b> 4/8	3/2020 2:50:00 PM						
Lab ID: 2004552-021	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 4/1	1/2020 10:00:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	: JMT					
Chloride	ND	60	mg/Kg	20	4/15/2020 8:25:31 PM	51836					
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Analyst	JMR					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/15/2020 3:11:42 AM	51747					
Surr: BFB	99.0	70-130	%Rec	1	4/15/2020 3:11:42 AM	51747					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JME					
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	4/14/2020 5:30:01 PM	51754					
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	4/14/2020 5:30:01 PM	51754					
Surr: DNOP	103	55.1-146	%Rec	1	4/14/2020 5:30:01 PM	51754					
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst	JMR					
Benzene	ND	0.025	mg/Kg	1	4/15/2020 3:11:42 AM	51747					
Toluene	ND	0.050	mg/Kg	1	4/15/2020 3:11:42 AM	51747					
Ethylbenzene	ND	0.050	mg/Kg	1	4/15/2020 3:11:42 AM	51747					

ND

96.1

93.9

97.6

94.0

0.10

70-130

70-130

70-130

70-130

mg/Kg

%Rec

%Rec

%Rec

%Rec 1

1

1

1

1

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

Qualifiers:

Xylenes, Total

Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
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- 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
- Page 5 of 12

Project:

Analytical Report Lab Order 2004552

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Ross Ranch

Date Reported: 6/4/2020

Client Sample ID: SA11 1Ft Collection Date: 4/8/2020 3:20:00 PM Received Date: 4/11/2020 10:00:00 AM

Lab ID: 2004552-022	Matrix: SOIL		Received Date	e: 4/1	1/2020 10:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	4/15/2020 8:37:56 PM	51836
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/15/2020 3:40:05 AM	51747
Surr: BFB	100	70-130	%Rec	1	4/15/2020 3:40:05 AM	51747
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	4/14/2020 5:53:56 PM	51754
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/14/2020 5:53:56 PM	51754
Surr: DNOP	110	55.1-146	%Rec	1	4/14/2020 5:53:56 PM	51754
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	4/15/2020 3:40:05 AM	51747
Toluene	ND	0.050	mg/Kg	1	4/15/2020 3:40:05 AM	51747
Ethylbenzene	ND	0.050	mg/Kg	1	4/15/2020 3:40:05 AM	51747
Xylenes, Total	ND	0.10	mg/Kg	1	4/15/2020 3:40:05 AM	51747
Surr: 1,2-Dichloroethane-d4	94.2	70-130	%Rec	1	4/15/2020 3:40:05 AM	51747
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	4/15/2020 3:40:05 AM	51747
Surr: Dibromofluoromethane	99.6	70-130	%Rec	1	4/15/2020 3:40:05 AM	51747
Surr: Toluene-d8	93.5	70-130	%Rec	1	4/15/2020 3:40:05 AM	51747

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

Qualifiers:

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Page 6 of 12

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Safety	& Environmental S	olutions										
Project:	Ross R	anch											
Sample ID:	MB-51836	SampType: <b>n</b>	blk	Tes	tCode: EP	A Method	300.0: Anions	;					
Client ID:	PBS	Batch ID: 5	1836	F	RunNo: <b>68</b> 1	136							
Prep Date:	4/15/2020	Analysis Date:	/15/2020	S	eqNo: 23	56639	Units: mg/Kg	9					
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chioride		ND 1.8	)										
Sample ID:	Sample ID: LCS-51836     SampType: Ics     TestCode: EPA Method 300.0: Anions												
Client ID: LCSS Batch ID: 51836				RunNo: 68136									
Prep Date:	4/15/2020	Analysis Date:	/15/2020	S	SeqNo: 23	56640	Units: mg/Kg	9					
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chloride		14 1.5	5 15.00	0	95.0	90	110						
Sample ID:	MB-51819	SampType: <b>n</b>	blk	Tes	tCode: EP	A Method	300.0: Anions	;					
Client ID:	PBS	Batch ID: 5	1819	F	RunNo: 681	146							
Prep Date:	4/15/2020	Analysis Date:	/15/2020	S	eqNo: 23	56712	Units: mg/Kg	9					
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chloride		ND 1.5	5										
Sample ID:	LCS-51819	SampType: Ic	s	Tes	tCode: EP	A Method	300.0: Anions	;					
Client ID:	LCSS	Batch ID: 5	1819	F	RunNo: <b>68</b> 1	146							
Prep Date:	4/15/2020	Analysis Date:	/15/2020	S	SeqNo: 23	56713	Units: mg/Kg	9					
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chloride		14 1.5	5 15.00	0	94.0	90	110						

Qualifiers:

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2004552

04-Jun-20
Client:	Safety &	Environme	ental So	olutions							
Project:	Ross Ran	ch									
Sample ID: I	LCS-51753	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: I	LCSS	Batch	ID: 51	753	F	RunNo: 6	8138				
Prep Date:	4/13/2020	Analysis D	ate: 4/	15/2020	S	SeqNo: 2	355495	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	50	10	50.00	0	99.1	70	130			
Surr: DNOP		4.3		5.000		85.9	55.1	146			
Sample ID:	MB-51753	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 51	753	F	RunNo: 6	8138				
Prep Date:	4/13/2020	Analysis D	ate: 4/	15/2020	S	SeqNo: 2	355496	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	ND	10								
Motor Oil Range	Organics (MRO)	ND	50	40.00		70.4	4				
Surr: DNOP		7.6		10.00		76.1	55.1	146			
Sample ID: I	MB-51754	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 51	754	F	RunNo: 6	8099				
Prep Date:	4/13/2020	Analysis D	ate: 4/	14/2020	5	SeqNo: 2	355633	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	ND	10								
Motor Oil Range	Organics (MRO)	ND	50								
Surr: DNOP		6.9		10.00		68.7	55.1	146			
Sample ID: I	LCS-51754	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: I	LCSS	Batch	ID: 51	754	F	RunNo: 6	8099				
Prep Date:	4/13/2020	Analysis D	ate: 4/	14/2020	S	SeqNo: 2	355634	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	47	10	50.00	0	94.4	70	130			
Surr: DNOP		4.4		5.000		88.3	55.1	146			
Sample ID: 2	2004552-020AMS	SampT	ype: <b>M</b> \$	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SA9 1Ft	Batch	ID: <b>51</b>	754	F	RunNo: 6	8099				
Prep Date:	4/13/2020	Analysis D	ate: 4/	14/2020	S	SeqNo: 2	355636	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	89	9.5	47.66	45.96	90.1	47.4	136			
Surr: DNOP		4.9		4.766		102	55.1	146			

#### Qualifiers:

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2004552

04-Jun-20

WO#:

Client: Project:	Safety & I Ross Rand	Environmen ch	tal S	olutions							
Sample ID:	2004552-020AMSD	SampTyp	e: M	SD	Test	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	SA9 1Ft	Batch I	D: 51	754	R	tunNo: 6	8099				
Prep Date:	4/13/2020	Analysis Dat	e: 4	/14/2020	S	eqNo: 2	355637	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	91	9.2	46.13	45.96	97.5	47.4	136	2.27	43.4	
Surr: DNOP		4.3		4.613		93.7	55.1	146	0	0	

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2004552

04-Jun-20

WO#:

Client:	Safety &	Environm	ental So	lutions							
Project:	Ross Ran	ch									
Sample ID:	2004552-012ams	SampT	ype: MS	5	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID:	SA1 1Ft	Batcl	n ID: 517	747	F	RunNo: 6	8126				
Prep Date:	4/12/2020	Analysis D	Date: 4/	14/2020	S	SeqNo: 2	355174	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.86	0.025	0.9862	0	87.1	70	130			
Toluene		0.96	0.049	0.9862	0	97.0	70	130			
Ethylbenzene		0.96	0.049	0.9862	0	97.2	70	130			
Xylenes, Total		2.9	0.099	2.959	0	99.1	70	130			
Surr: 1,2-Dic	chloroethane-d4	0.45		0.4931		91.7	70	130			
Surr: 4-Brom	nofluorobenzene	0.46		0.4931		93.8	70	130			
Surr: Dibrom	ofluoromethane	0.49		0.4931		100	70	130			
Surr: Toluen	le-d8	0.45		0.4931		91.7	70	130			
Sample ID:	2004552-012amsd	SampT	ype: <b>MS</b>	D	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID:	SA1 1Ft	Batcl	n ID: 517	747	F	RunNo: 6	8126				
Prep Date:	4/12/2020	Analysis D	Date: 4/	14/2020	S	SeqNo: 2	355175	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.83	0.025	0.9930	0	83.9	70	130	3.00	20	
Toluene		0.94	0.050	0.9930	0	94.6	70	130	1.82	20	
Ethylbenzene		0.97	0.050	0.9930	0	97.6	70	130	1.06	0	
Xylenes, Total		2.9	0.099	2.979	0	97.5	70	130	0.944	0	
Surr: 1,2-Dic	chloroethane-d4	0.47		0.4965		94.4	70	130	0	0	
Surr: 4-Brom	nofluorobenzene	0.48		0.4965		96.2	70	130	0	0	
Surr: Dibrom	nofluoromethane	0.51		0.4965		102	70	130	0	0	
Surr: Toluen	ie-d8	0.47		0.4965		95.2	70	130	0	0	
Sample ID:	lcs-51747	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: Vola	iles Short	List	
Client ID:	LCSS	Batcl	n ID: 517	747	F	RunNo: 6	8126				
Prep Date:	4/12/2020	Analysis D	Date: 4/	14/2020	S	SeqNo: 2	355186	Units: <b>mg/k</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	1.000	0	89.1	70	130			
Toluene		1.0	0.050	1.000	0	101	70	130			
Ethylbenzene		1.0	0.050	1.000	0	102	70	130			
Xylenes, Total		3.1	0.10	3.000	0	103	70	130			
Surr: 1,2-Dic	chloroethane-d4	0.48		0.5000		96.2	70	130			
Surr: 4-Brom	nofluorobenzene	0.48		0.5000		95.8	70	130			
Surr: Dibrom	nofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluen	e-d8	0.48		0.5000		96.5	70	130			

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WO#: 2004552

Released to Imaging: 3/30/2023 7:54:12 AM

Client: Project:	Safety & Ross Rai	Environm nch	ental Sc	lutions							
Sample ID: mb-51	747	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS		Batcl	n ID: 51	747	F	RunNo: 6	8126				
Prep Date: 4/12/2	2020	Analysis D	Date: 4/	14/2020	S	SeqNo: 2	355187	Units: <b>mg/K</b>	g		
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-Dichloroetha	ane-d4	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobe	enzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluorom	ethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8		0.48		0.5000		95.7	70	130			

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2004552

04-Jun-20

WO#:

Client:	Safety &	Environm	ental So	olutions							
Project:	Ross Ran	ch									
Sample ID:	2004552-013ams	SampT	Гуре: М	6	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	SA2 1Ft	Batc	h ID: <b>51</b> '	747	F	RunNo: 6	8126				
Prep Date:	4/12/2020	Analysis E	Date: 4/	14/2020	S	SeqNo: 2	355208	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	20	4.9	24.73	0	81.2	70	130			
Surr: BFB		480		494.6		97.9	70	130			
Sample ID:	2004552-013amsc	I Samp1	Гуре: М	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	SA2 1Ft	Batcl	h ID: 51	747	F	RunNo: 6	8126				
Prep Date:	4/12/2020	Analysis E	Date: 4/	14/2020	S	SeqNo: 2	355209	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	20	4.9	24.73	0	82.4	70	130	1.52	20	
Surr: BFB		480		494.6		97.2	70	130	0	0	
Sample ID:	lcs-51747	SampT	Type: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batc	h ID: <b>51</b> '	747	F	RunNo: 6	8126				
Prep Date:	4/12/2020	Analysis E	Date: 4/	14/2020	S	SeqNo: 2	355219	Units: <b>mg/ł</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	21	5.0	25.00	0	85.9	70	130			
Surr: BFB		490		500.0		98.5	70	130			
Sample ID:	mb-51747	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batcl	h ID: 51	747	F	RunNo: 6	8126				
Prep Date:	4/12/2020	Analysis E	Date: 4/	14/2020	S	SeqNo: 2	355220	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		490		500.0		97.6	70	130			

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- RL Reporting Limit

2004552

04-Jun-20

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-3 Website: ww	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 3975 FAX: 505-345 w.hallenvironmental	atory s NE 7109 <b>Sam</b>   4107 .com	ple Log-In Ch	eck List
Client Name: Safety Env Solutions	Work Order Num	ber: 2004552		RcptNo: 1	
Received By: Erin Melendrez	4/11/2020 10:00:00	D AM	int	-	
Completed By: Erin Melendrez	4/11/2020 11:09:2	7 AM	Mut,	_	
Reviewed By:			. –		
<u>Chain of Custody</u>					
1. Is Chain of Custody sufficiently complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌		
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	3)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) proper	ly 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 broke	en?	Yes	No 🗹 🗌		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌 1	# of preserved bottles checked for pH: (<2 or >1)	unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🔽	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes 🔽	No 🗆	Checked by:	M 4/11/20
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding:	Date Via:	eMail PI	hone 🗌 Fax 🛛	] In Person	

16. Additional remarks:

Client Instructions:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	3.3	Good				

Page 1 of 1

Received by	OCD	: 3/1	13/2	023	7:47	:24 AM											ľ					, ý		P	age 43 a	of 92
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June 29, 2020

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

RE: Devon Snapping 10 FED 1H 2RP-4661

OrderNo.: 2006A87

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 16 sample(s) on 6/20/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2006A87

Date Reported: 6/29/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Devon Snapping 10 FED 1H 2RP-4661 2006A87-001 Matrix: SOIL

Client Sample ID: SP-6 2ft Bottom Collection Date: 6/18/2020 9:45:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/26/2020 1:49:03 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2020 6:25:04 PM	53203
Surr: BFB	96.6	70-130	%Rec	1	6/22/2020 6:25:04 PM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/22/2020 9:54:22 AM	53207
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/22/2020 9:54:22 AM	53207
Surr: DNOP	95.0	55.1-146	%Rec	1	6/22/2020 9:54:22 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/22/2020 6:25:04 PM	53203
Toluene	ND	0.049	mg/Kg	1	6/22/2020 6:25:04 PM	53203
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2020 6:25:04 PM	53203
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2020 6:25:04 PM	53203
Surr: 1,2-Dichloroethane-d4	93.6	70-130	%Rec	1	6/22/2020 6:25:04 PM	53203
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	6/22/2020 6:25:04 PM	53203
Surr: Dibromofluoromethane	106	70-130	%Rec	1	6/22/2020 6:25:04 PM	53203
Surr: Toluene-d8	102	70-130	%Rec	1	6/22/2020 6:25:04 PM	53203

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 21

**Project:** 

Lab ID:

Analytical Report Lab Order 2006A87

Date Reported: 6/29/2020

# Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 FED 1H 2RP-4661

**CLIENT:** Safety & Environmental Solutions

2006A87-002

Client Sample ID: SP-7 2ft Bottom Collection Date: 6/18/2020 9:55:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/26/2020 2:01:27 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2020 7:52:03 PM	53203
Surr: BFB	96.8	70-130	%Rec	1	6/22/2020 7:52:03 PM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/22/2020 10:04:17 AM	53207
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/22/2020 10:04:17 AM	53207
Surr: DNOP	94.2	55.1-146	%Rec	1	6/22/2020 10:04:17 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/22/2020 7:52:03 PM	53203
Toluene	ND	0.049	mg/Kg	1	6/22/2020 7:52:03 PM	53203
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2020 7:52:03 PM	53203
Xylenes, Total	ND	0.098	mg/Kg	1	6/22/2020 7:52:03 PM	53203
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	6/22/2020 7:52:03 PM	53203
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	6/22/2020 7:52:03 PM	53203
Surr: Dibromofluoromethane	109	70-130	%Rec	1	6/22/2020 7:52:03 PM	53203
Surr: Toluene-d8	101	70-130	%Rec	1	6/22/2020 7:52:03 PM	53203

Matrix: SOIL

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

Page 2 of 21

Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-003Matrix: SOIL

Client Sample ID: SP-8 2ft Bottom Collection Date: 6/18/2020 10:15:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	6/26/2020 2:13:52 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2020 9:18:33 PM	53203
Surr: BFB	98.1	70-130		%Rec	1	6/22/2020 9:18:33 PM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/22/2020 10:14:12 AM	53207
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2020 10:14:12 AM	53207
Surr: DNOP	147	55.1-146	S	%Rec	1	6/22/2020 10:14:12 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	ND	0.025		mg/Kg	1	6/22/2020 9:18:33 PM	53203
Toluene	ND	0.050		mg/Kg	1	6/22/2020 9:18:33 PM	53203
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2020 9:18:33 PM	53203
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2020 9:18:33 PM	53203
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/22/2020 9:18:33 PM	53203
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/22/2020 9:18:33 PM	53203
Surr: Dibromofluoromethane	112	70-130		%Rec	1	6/22/2020 9:18:33 PM	53203
Surr: Toluene-d8	104	70-130		%Rec	1	6/22/2020 9:18:33 PM	53203

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

Page 3 of 21

Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-004Matrix: SOIL

Client Sample ID: SP-9 1ft Bottom Collection Date: 6/18/2020 10:35:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/26/2020 2:26:16 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/22/2020 9:47:18 PM	53203
Surr: BFB	98.3	70-130	%Rec	1	6/22/2020 9:47:18 PM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/22/2020 10:24:10 AM	53207
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/22/2020 10:24:10 AM	53207
Surr: DNOP	94.0	55.1-146	%Rec	1	6/22/2020 10:24:10 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/22/2020 9:47:18 PM	53203
Toluene	ND	0.050	mg/Kg	1	6/22/2020 9:47:18 PM	53203
Ethylbenzene	ND	0.050	mg/Kg	1	6/22/2020 9:47:18 PM	53203
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2020 9:47:18 PM	53203
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	6/22/2020 9:47:18 PM	53203
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	6/22/2020 9:47:18 PM	53203
Surr: Dibromofluoromethane	113	70-130	%Rec	1	6/22/2020 9:47:18 PM	53203
Surr: Toluene-d8	102	70-130	%Rec	1	6/22/2020 9:47:18 PM	53203

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

Page 4 of 21

Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-005Matrix: SOIL

Client Sample ID: SP-10 1ft Bottom Collection Date: 6/18/2020 10:55:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	180	60	mg/Kg	20	6/26/2020 2:38:41 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2020 10:16:03 PM	53203
Surr: BFB	94.4	70-130	%Rec	1	6/22/2020 10:16:03 PM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/22/2020 10:34:09 AM	53207
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/22/2020 10:34:09 AM	53207
Surr: DNOP	70.4	55.1-146	%Rec	1	6/22/2020 10:34:09 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/22/2020 10:16:03 PM	53203
Toluene	ND	0.049	mg/Kg	1	6/22/2020 10:16:03 PM	53203
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2020 10:16:03 PM	53203
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2020 10:16:03 PM	53203
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	6/22/2020 10:16:03 PM	53203
Surr: 4-Bromofluorobenzene	99.3	70-130	%Rec	1	6/22/2020 10:16:03 PM	53203
Surr: Dibromofluoromethane	105	70-130	%Rec	1	6/22/2020 10:16:03 PM	53203
Surr: Toluene-d8	99.6	70-130	%Rec	1	6/22/2020 10:16:03 PM	53203

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

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-006Matrix: SOIL

Client Sample ID: SP-11 West-H Collection Date: 6/18/2020 11:20:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	63	59	mg/Kg	20	6/26/2020 2:51:05 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2020 10:44:42 PM	53203
Surr: BFB	96.2	70-130	%Rec	1	6/22/2020 10:44:42 PM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	34	9.6	mg/Kg	1	6/25/2020 9:53:24 AM	53273
Motor Oil Range Organics (MRO)	76	48	mg/Kg	1	6/25/2020 9:53:24 AM	53273
Surr: DNOP	108	55.1-146	%Rec	1	6/25/2020 9:53:24 AM	53273
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/22/2020 10:44:42 PM	53203
Toluene	ND	0.049	mg/Kg	1	6/22/2020 10:44:42 PM	53203
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2020 10:44:42 PM	53203
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2020 10:44:42 PM	53203
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	6/22/2020 10:44:42 PM	53203
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	6/22/2020 10:44:42 PM	53203
Surr: Dibromofluoromethane	109	70-130	%Rec	1	6/22/2020 10:44:42 PM	53203
Surr: Toluene-d8	102	70-130	%Rec	1	6/22/2020 10:44:42 PM	53203

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

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**Project:** 

Lab ID:

Analytical Report Lab Order 2006A87

Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Devon Snapping 10 FED 1H 2RP-4661

**CLIENT:** Safety & Environmental Solutions

2006A87-007

Client Sample ID: SP-12 East-H Collection Date: 6/18/2020 11:45:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	240	60	mg/Kg	20	6/26/2020 3:28:19 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/23/2020 1:36:09 AM	53203
Surr: BFB	100	70-130	%Rec	1	6/23/2020 1:36:09 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/22/2020 10:54:07 AM	53207
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/22/2020 10:54:07 AM	53207
Surr: DNOP	84.0	55.1-146	%Rec	1	6/22/2020 10:54:07 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/23/2020 1:36:09 AM	53203
Toluene	ND	0.050	mg/Kg	1	6/23/2020 1:36:09 AM	53203
Ethylbenzene	ND	0.050	mg/Kg	1	6/23/2020 1:36:09 AM	53203
Xylenes, Total	ND	0.10	mg/Kg	1	6/23/2020 1:36:09 AM	53203
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	6/23/2020 1:36:09 AM	53203
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	6/23/2020 1:36:09 AM	53203
Surr: Dibromofluoromethane	108	70-130	%Rec	1	6/23/2020 1:36:09 AM	53203
Surr: Toluene-d8	108	70-130	%Rec	1	6/23/2020 1:36:09 AM	53203

Matrix: SOIL

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
- JAnalyte detected below quantitation limitsPSample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-008Matrix: SOIL

Client Sample ID: SP-13 West-H Collection Date: 6/18/2020 12:10:00 PM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	65	60	mg/Kg	20	6/26/2020 3:40:43 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/23/2020 2:04:40 AM	53203
Surr: BFB	97.8	70-130	%Rec	1	6/23/2020 2:04:40 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	35	9.9	mg/Kg	1	6/25/2020 10:03:16 AM	53273
Motor Oil Range Organics (MRO)	80	50	mg/Kg	1	6/25/2020 10:03:16 AM	53273
Surr: DNOP	105	55.1-146	%Rec	1	6/25/2020 10:03:16 AM	53273
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	6/23/2020 2:04:40 AM	53203
Toluene	ND	0.049	mg/Kg	1	6/23/2020 2:04:40 AM	53203
Ethylbenzene	ND	0.049	mg/Kg	1	6/23/2020 2:04:40 AM	53203
Xylenes, Total	ND	0.098	mg/Kg	1	6/23/2020 2:04:40 AM	53203
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	6/23/2020 2:04:40 AM	53203
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	6/23/2020 2:04:40 AM	53203
Surr: Dibromofluoromethane	107	70-130	%Rec	1	6/23/2020 2:04:40 AM	53203
Surr: Toluene-d8	104	70-130	%Rec	1	6/23/2020 2:04:40 AM	53203

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

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsCliProject:Devon Snapping 10 FED 1H 2RP-4661CLab ID:2006A87-009Matrix: SOIL

Client Sample ID: SP-14 East-H Collection Date: 6/18/2020 12:30:00 PM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	61	mg/Kg	20	6/26/2020 3:53:08 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/23/2020 2:33:16 AM	53203
Surr: BFB	95.1	70-130	%Rec	1	6/23/2020 2:33:16 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/22/2020 11:14:09 AM	53207
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/22/2020 11:14:09 AM	53207
Surr: DNOP	95.8	55.1-146	%Rec	1	6/22/2020 11:14:09 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/23/2020 2:33:16 AM	53203
Toluene	ND	0.050	mg/Kg	1	6/23/2020 2:33:16 AM	53203
Ethylbenzene	ND	0.050	mg/Kg	1	6/23/2020 2:33:16 AM	53203
Xylenes, Total	ND	0.10	mg/Kg	1	6/23/2020 2:33:16 AM	53203
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	6/23/2020 2:33:16 AM	53203
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	6/23/2020 2:33:16 AM	53203
Surr: Dibromofluoromethane	104	70-130	%Rec	1	6/23/2020 2:33:16 AM	53203
Surr: Toluene-d8	106	70-130	%Rec	1	6/23/2020 2:33:16 AM	53203

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

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-010Matrix: SOIL

Client Sample ID: SP-15 West-H Collection Date: 6/18/2020 1:00:00 PM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	190	60	mg/Kg	20	6/26/2020 4:05:33 AM	53319
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/23/2020 3:01:54 AM	53203
Surr: BFB	98.5	70-130	%Rec	1	6/23/2020 3:01:54 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/22/2020 11:24:13 AM	53207
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/22/2020 11:24:13 AM	53207
Surr: DNOP	73.0	55.1-146	%Rec	1	6/22/2020 11:24:13 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/23/2020 3:01:54 AM	53203
Toluene	ND	0.050	mg/Kg	1	6/23/2020 3:01:54 AM	53203
Ethylbenzene	ND	0.050	mg/Kg	1	6/23/2020 3:01:54 AM	53203
Xylenes, Total	ND	0.099	mg/Kg	1	6/23/2020 3:01:54 AM	53203
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	6/23/2020 3:01:54 AM	53203
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	6/23/2020 3:01:54 AM	53203
Surr: Dibromofluoromethane	107	70-130	%Rec	1	6/23/2020 3:01:54 AM	53203
Surr: Toluene-d8	106	70-130	%Rec	1	6/23/2020 3:01:54 AM	53203

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

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**Project:** 

Lab ID:

**Analytical Report** Lab Order 2006A87

Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Devon Snapping 10 FED 1H 2RP-4661 2006A87-011 Matrix: SOIL

Client Sample ID: SP-16 North-H Collection Date: 6/18/2020 1:25:00 PM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	460	60	mg/Kg	20	6/26/2020 6:46:51 PM	53333
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/23/2020 3:30:25 AM	53203
Surr: BFB	97.6	70-130	%Rec	1	6/23/2020 3:30:25 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/22/2020 11:34:18 AM	53207
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/22/2020 11:34:18 AM	53207
Surr: DNOP	66.6	55.1-146	%Rec	1	6/22/2020 11:34:18 AM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	6/23/2020 3:30:25 AM	53203
Toluene	ND	0.049	mg/Kg	1	6/23/2020 3:30:25 AM	53203
Ethylbenzene	ND	0.049	mg/Kg	1	6/23/2020 3:30:25 AM	53203
Xylenes, Total	ND	0.097	mg/Kg	1	6/23/2020 3:30:25 AM	53203
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	6/23/2020 3:30:25 AM	53203
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	6/23/2020 3:30:25 AM	53203
Surr: Dibromofluoromethane	102	70-130	%Rec	1	6/23/2020 3:30:25 AM	53203
Surr: Toluene-d8	107	70-130	%Rec	1	6/23/2020 3:30:25 AM	53203

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/29/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-012Matrix: SOIL

Client Sample ID: SP-17 North-H Collection Date: 6/17/2020 9:45:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	6/26/2020 3:04:38 PM	53333
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/23/2020 3:58:53 AM	53203
Surr: BFB	96.5	70-130	%Rec	1	6/23/2020 3:58:53 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	29	9.4	mg/Kg	1	6/25/2020 10:13:11 AM	53273
Motor Oil Range Organics (MRO)	94	47	mg/Kg	1	6/25/2020 10:13:11 AM	53273
Surr: DNOP	102	55.1-146	%Rec	1	6/25/2020 10:13:11 AM	53273
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/23/2020 3:58:53 AM	53203
Toluene	ND	0.050	mg/Kg	1	6/23/2020 3:58:53 AM	53203
Ethylbenzene	ND	0.050	mg/Kg	1	6/23/2020 3:58:53 AM	53203
Xylenes, Total	ND	0.10	mg/Kg	1	6/23/2020 3:58:53 AM	53203
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	6/23/2020 3:58:53 AM	53203
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	6/23/2020 3:58:53 AM	53203
Surr: Dibromofluoromethane	105	70-130	%Rec	1	6/23/2020 3:58:53 AM	53203
Surr: Toluene-d8	105	70-130	%Rec	1	6/23/2020 3:58:53 AM	53203

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

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-013Matrix: SOIL

Client Sample ID: SP-18 East-H Collection Date: 6/17/2020 9:55:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	6/26/2020 3:16:59 PM	53333
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/23/2020 4:27:21 AM	53203
Surr: BFB	93.6	70-130	%Rec	1	6/23/2020 4:27:21 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	34	9.1	mg/Kg	1	6/25/2020 10:23:06 AM	53273
Motor Oil Range Organics (MRO)	100	46	mg/Kg	1	6/25/2020 10:23:06 AM	53273
Surr: DNOP	109	55.1-146	%Rec	1	6/25/2020 10:23:06 AM	53273
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/23/2020 4:27:21 AM	53203
Toluene	ND	0.050	mg/Kg	1	6/23/2020 4:27:21 AM	53203
Ethylbenzene	ND	0.050	mg/Kg	1	6/23/2020 4:27:21 AM	53203
Xylenes, Total	ND	0.10	mg/Kg	1	6/23/2020 4:27:21 AM	53203
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	6/23/2020 4:27:21 AM	53203
Surr: 4-Bromofluorobenzene	92.8	70-130	%Rec	1	6/23/2020 4:27:21 AM	53203
Surr: Dibromofluoromethane	104	70-130	%Rec	1	6/23/2020 4:27:21 AM	53203
Surr: Toluene-d8	106	70-130	%Rec	1	6/23/2020 4:27:21 AM	53203

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

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-014Matrix: SOIL

Client Sample ID: SP-19 South-H Collection Date: 6/17/2020 10:20:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	6/26/2020 3:29:20 PM	53333
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/23/2020 4:55:54 AM	53203
Surr: BFB	98.6	70-130	%Rec	1	6/23/2020 4:55:54 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	31	9.6	mg/Kg	1	6/25/2020 10:33:00 AM	53273
Motor Oil Range Organics (MRO)	100	48	mg/Kg	1	6/25/2020 10:33:00 AM	53273
Surr: DNOP	110	55.1-146	%Rec	1	6/25/2020 10:33:00 AM	53273
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	6/23/2020 4:55:54 AM	53203
Toluene	ND	0.050	mg/Kg	1	6/23/2020 4:55:54 AM	53203
Ethylbenzene	ND	0.050	mg/Kg	1	6/23/2020 4:55:54 AM	53203
Xylenes, Total	ND	0.10	mg/Kg	1	6/23/2020 4:55:54 AM	53203
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	6/23/2020 4:55:54 AM	53203
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	6/23/2020 4:55:54 AM	53203
Surr: Dibromofluoromethane	108	70-130	%Rec	1	6/23/2020 4:55:54 AM	53203
Surr: Toluene-d8	108	70-130	%Rec	1	6/23/2020 4:55:54 AM	53203

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

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-015Matrix: SOIL

Client Sample ID: SP-20 West-H Collection Date: 6/17/2020 10:40:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	6/26/2020 3:41:41 PM	53333
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/23/2020 5:24:23 AM	53203
Surr: BFB	98.1	70-130	%Rec	1	6/23/2020 5:24:23 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	29	9.7	mg/Kg	1	6/25/2020 10:42:58 AM	53273
Motor Oil Range Organics (MRO)	81	49	mg/Kg	1	6/25/2020 10:42:58 AM	53273
Surr: DNOP	113	55.1-146	%Rec	1	6/25/2020 10:42:58 AM	53273
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	6/23/2020 5:24:23 AM	53203
Toluene	ND	0.048	mg/Kg	1	6/23/2020 5:24:23 AM	53203
Ethylbenzene	ND	0.048	mg/Kg	1	6/23/2020 5:24:23 AM	53203
Xylenes, Total	ND	0.096	mg/Kg	1	6/23/2020 5:24:23 AM	53203
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	6/23/2020 5:24:23 AM	53203
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	6/23/2020 5:24:23 AM	53203
Surr: Dibromofluoromethane	104	70-130	%Rec	1	6/23/2020 5:24:23 AM	53203
Surr: Toluene-d8	106	70-130	%Rec	1	6/23/2020 5:24:23 AM	53203

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

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Date Reported: 6/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsProject:Devon Snapping 10 FED 1H 2RP-4661Lab ID:2006A87-016Matrix: SOIL

Client Sample ID: SP-21 2ft Bottom Collection Date: 6/17/2020 11:00:00 AM Received Date: 6/20/2020 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	600	60	mg/Kg	20	6/26/2020 3:54:02 PM	53333
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/23/2020 5:52:55 AM	53203
Surr: BFB	93.8	70-130	%Rec	1	6/23/2020 5:52:55 AM	53203
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/22/2020 12:25:42 PM	53207
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/22/2020 12:25:42 PM	53207
Surr: DNOP	82.0	55.1-146	%Rec	1	6/22/2020 12:25:42 PM	53207
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	6/23/2020 5:52:55 AM	53203
Toluene	ND	0.049	mg/Kg	1	6/23/2020 5:52:55 AM	53203
Ethylbenzene	ND	0.049	mg/Kg	1	6/23/2020 5:52:55 AM	53203
Xylenes, Total	ND	0.097	mg/Kg	1	6/23/2020 5:52:55 AM	53203
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	6/23/2020 5:52:55 AM	53203
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	6/23/2020 5:52:55 AM	53203
Surr: Dibromofluoromethane	104	70-130	%Rec	1	6/23/2020 5:52:55 AM	53203
Surr: Toluene-d8	103	70-130	%Rec	1	6/23/2020 5:52:55 AM	53203

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

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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2006A87

WO#:

Hall Environme	ental Analysis Laborato	ory, Inc.	29-Jun-20
Client:SafeProject:Deve	ty & Environmental Solutions on Snapping 10 FED 1H 2RP-466	1	
Sample ID: MB-53319	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 53319	RunNo: 69924	
Prep Date: 6/25/2020	Analysis Date: 6/25/2020	SeqNo: 2428644 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride	ND 1.5		
Sample ID: LCS-53319	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 53319	RunNo: 69924	
Prep Date: 6/25/2020	Analysis Date: 6/25/2020	SeqNo: 2428645 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride	14 1.5 15.00	0 96.0 90 110	
Sample ID: MB-53333	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 53333	RunNo: 69932	
Prep Date: 6/26/2020	Analysis Date: 6/26/2020	SeqNo: 2429479 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride	ND 1.5		
Sample ID: LCS-53333	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 53333	RunNo: 69932	
Prep Date: 6/26/2020	Analysis Date: 6/26/2020	SeqNo: 2429487 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride	14 1.5 15.00	0 94.3 90 110	

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

Project: Devon St	napping 10 FE	D 1H 2RP-466	1						
Sample ID: LCS-53207	SampType	LCS	Tes	tCode: EPA	Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID:	53207	R	RunNo: 697	99				
Prep Date: 6/21/2020	Analysis Date:	6/22/2020	S	SeqNo: 242	3722	Units: mg/K	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	67	10 50.00	0	134	70	130			S
Surr: DNOP	7.5	5.000		150	55.1	146			S
Sample ID: MB-53207	SampType	MBLK	Tes	tCode: EPA	Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID:	53207	R	RunNo: 697	99				
Prep Date: 6/21/2020	Analysis Date:	6/22/2020	S	SeqNo: 242	3723	Units: mg/K	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	17	10.00		166	55.1	146			S
Sample ID: MB-53273	SampType	MBLK	Tes	tCode: EPA	Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID:	53273	R	RunNo: <b>698</b>	76				
Prep Date: 6/24/2020	Analysis Date:	6/25/2020	S	SeqNo: 242	6530	Units: mg/K	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	12	10.00		116	55.1	146			
Sample ID: LCS-53273	SampType	LCS	Tes	tCode: EPA	Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID:	53273	R	RunNo: <b>698</b>	76				
Prep Date: 6/24/2020	Analysis Date:	6/25/2020	S	SeqNo: 242	6555	Units: mg/K	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10 50.00	0	123	70	130			
Surr: DNOP	5.9	5.000		118	55.1	146			

Qualifiers:

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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
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- P Sample pH Not In Range

RL Reporting Limit

WO#: 2006A87

29-Jun-20

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WO#:	2006	6A87

29-Jun-20

Client: Safety & I	Environme	ental So	lutions							
Project: Devon Sn	apping 10	FED 1	H 2RP-466	1						
Sample ID: mb-53203	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8260B: Volat	tiles Short	List	
Client ID: PBS	Batch	h ID: 532	203	R	unNo: 69	9819				
Prep Date: 6/20/2020	Analysis D	Date: 6/2	22/2020	S	eqNo: 24	424390	Units: mg/K	٤g		
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	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.2	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.53		0.5000		106	70	130			
Sample ID: Ics-53203	SampT	ype: LC	S4	Tes	tCode: EF	PA Method	8260B: Volat	tiles Short	List	
Client ID: BatchQC	Batch	h ID: 532	203	R	unNo: 69	9819				
Prep Date: 6/20/2020	Analysis D	Date: 6/2	22/2020	S	eqNo: 24	424391	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.5	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			
Sample ID: 2006a87-001ams	SampT	ype: MS	4	Tes	tCode: EF	PA Method	8260B: Volat	tiles Short	List	
Client ID: SP-6 2ft Bottom	Batch	h ID: 532	203	R	unNo: 69	9819				
Prep Date: 6/20/2020	Analysis D	Date: 6/2	22/2020	S	eqNo: 24	424398	Units: <b>mg/K</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9930	0	113	71.1	115			
Toluene	1.1	0.050	0.9930	0	112	79.6	132			
Ethylbenzene	1.1	0.050	0.9930	0	112	83.8	134			
Xylenes, Total	3.6	0.099	2.979	0	119	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.53		0.4965		107	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4965		99.3	70	130			
Surr: Dibromofluoromethane	0.55		0.4965		110	70	130			
Surr: Toluene-d8	0.53		0.4965		107	70	130			

#### **Qualifiers:**

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RL Reporting Limit

**Client:** 

**Project:** 

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

0.49

0.55

0.48

Devon Snapping 10 FED 1H 2RP-4661

Sample ID: 2006a87-001ams	sd Samp	Гуре: МS	SD4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List
Client ID: SP-6 2ft Bottom	Batc	h ID: 53	203	R	RunNo: 6	9819			
Prep Date: 6/20/2020	Analysis [	Date: 6/	22/2020	S	SeqNo: 2	424399	Units: <b>mg/</b> #	٢g	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	1.0	0.024	0.9737	0	107	71.1	115	7.59	20
Toluene	0.98	0.049	0.9737	0	101	79.6	132	12.5	20
Ethylbenzene	0.95	0.049	0.9737	0	97.8	83.8	134	15.4	20
Xylenes, Total	3.1	0.097	2.921	0	107	82.4	132	13.3	20
Surr: 1,2-Dichloroethane-d4	0.54		0.4869		112	70	130	0	0

101

113

98.6

70

70

70

130

130

130

0 0

0

0.4869

0.4869

0.4869

### **Qualifiers:**

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- Not Detected at the Reporting Limit ND
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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit
- Page 20 of 21

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#### WO#: 2006A87

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Hall El	ivironmenta	ai Anary	ysis l	aborat	ory, Inc.						29-Jun-20
Client: Project:	Safety & Devon Si	Environme napping 10	ental Sc FED 1	olutions H 2RP-466	1						
Sample ID:	mb-53203	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	n ID: 53	203	F	RunNo: 6	9819				
Prep Date:	6/20/2020	Analysis D	ate: 6/	22/2020	S	SeqNo: 2	424417	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 480	5.0	500.0		96.8	70	130			
Sample ID:	lcs-53203	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	n ID: 53	203	F	RunNo: 6	9819				
Prep Date:	6/20/2020	Analysis D	ate: 6/	22/2020	S	SeqNo: 2	424418	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	19	5.0	25.00	0	77.2	70	130			
Surr: BFB		470		500.0		94.4	70	130			
Sample ID:	2006a87-002ams	SampT	ype: <b>MS</b>	3	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	

Client ID:	SP-7 2ft Bottom	Batch	ID: 532	203	R	unNo: 69	9819				
Prep Date:	6/20/2020	Analysis Da	ite: 6/2	22/2020	S	eqNo: 24	424426	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	19	4.8	24.04	0	78.4	70	130			
Surr: BFB		450		480.8		92.8	70	130			

Sample ID: 2006a87-002ams	d SampT	ype: <b>MS</b>	5D	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: SP-7 2ft Bottom	Batch	n ID: 532	203	R	tunNo: 69	9819				
Prep Date: 6/20/2020	Analysis D	ate: 6/	22/2020	S	eqNo: 24	424427	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.9	24.58	0	77.2	70	130	0.693	20	
Surr: BFB	490		491.6		98.9	70	130	0	0	

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- % Recovery outside of range due to dilution or matrix S

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- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2006A87

WO#:

HALL ENVIE ANAL LABO	RONMENTAL Ysis Ratory	Hall Environmenta Alb TEL: 505-345-397: Website: www.ha	l Anal 49 nuquer 5 FAX allenvi	vsis Lab 01 Haw que, NM 505-34 ronmen	ooratory kins NE 4 87109 45-4107 ntal.com	Sar	nple Log-In	Check List
Client Name:	Safety & Environmental Solutions	Work Order Number	: 200	6A87			RcptN	o: 1
Received By:	Juan Rojas	6/20/2020 7:40:00 AM	6		Gua	nay	-	
Completed By:	Juan Rojas	6/20/2020 8:29:03 AM	ic -		Glia	nag		
Reviewed By:	OF 4/20/2020				7			
Chain of Cus	tody							
1. Is Chain of C	ustody complete?		Yes		N	0	Not Present	
2. How was the	sample delivered?		Cou	rier				
Loa In								
3. Was an attem	npt made to cool the samples?	2	Yes	~	No			
4. Were all samp	ples received at a temperature	of >0° C to 6.0°C	Yes	V	No	<b>)</b>		
5. Sample(s) in	proper container(s)?		Yes		No	0		
6. Sufficient sam	ple volume for indicated test(	5)?	Yes	~	No			
7. Are samples (	except VOA and ONG) proper	ly preserved?	Yes	~	No			
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗌	
9. Received at le	ast 1 vial with headspace <1/4	4" for AQ VOA?	Yes		No			
10. Were any san	nple containers received broke	en?	Yes		No			
							# of preserved bottles checked	/
11. Does paperwo	ork match bottle labels?		Yes	~	No		for pH:	
2 Are matrices of	orrectly identified on Chain of	Custody2	Vaa		No		Adjusted?	r 3rz uniess noted)
3 Is it clear what	analyses were requested?	Custody?	Voc		No	H	/-	
4. Were all holdir	ing times able to be met?		Yes	V	No	Ē	Checked by:	TR 6 bolz
(If no, notify cu	ustomer for authorization.)						/	20 - 100/0
pecial Handli	ing (if applicable)							
15. Was client no	tified of all discrepancies with	this order?	Yes		No		NA 🔽	
Person	Notified <sup>.</sup>	Date [				-		
By Who	m:	Via:	] eM	ai 🗔	Phone C	Eav		
Regardi	na:	vid.			Thone _			
Client In	structions:							
16. Additional ren	narks							
17 0								
Cooler Inform	Temp °C Condition S	eal Intact Seal No. C		ato I	Signad	Du		
000101110	0.4 Good	Sarinadi Searino S	ear Di	ale	Signed	Бу		

Page 1 of 1

Received	by C	CD.	: 3/13	3/20.	23 7.	47:	24 AN	1										1				. 14			-		Pa	ge 68	of 9
	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	1) 0) 10₄	(802° \/ MR SIMS SIMS SIMS SIMS SIMS SIMS	s,g 30, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	525 525 710 <sup>2</sup> 825 708 708 708 708 708 708 708 708 708 708	7 7 8/8 8/8 8/8 8/8 8/8 7 7 7 7 7 7 7 7 7	(GF 103 103 103 103 103 103 103 103 103 103	MT astic betho 3 Me 3 Me 3 Me 3 Me 3 Me 3 Me 3 Me 3 Me	TEX / 281 P6 281 P6 281 P6 280 (V 250 (S 250 (S	B. TF 82 B2 FC 10 C												Remarks:	Bill Devon		المعامرة المحافيات منافعه منافعه المعاملة معالكين عامل المتصفحات عامين من 11. 11. 11. 11. 11. 11. 11. 11. 11. 1
Turn-Around Time: 5 And	E Standard D Rush	Project Name: Devan	2.22.4661 xe	Project #:	DEV- 20-04	Project Manager:	Aller Bub	-	Sampler: San. Con	On Ice: 27 468 D No	# of Coolers: \	Cooler Temp(including CF): 0-4-0 20-4 (°C)	Container Preservative HEAL No.	Type and # Type 200 CHS+	1 tee -001	1 - 002	1 -m03	100-	500-	1 -006	-007	-008	( -609	/ - 010 -		Received by Via: Date Time F	11 6/19/20 1400	Received by Via: Date Time	That only a remain of the
Chain-of-Custody Record	Client: Silder GUNN Nuch	and a	Mailing Address: 7 DZ - Cling	Hobs N.W. SALED	Phone #: 575-397.0510	email or Fax#:	QA/QC Package:	Level 4 (Full Validation)	Accreditation:   Accreditation:  Accreditation	D NELAC D Other	EDD (Type)			Date Time Matrix Sample Name	the art & solo 24 Batter	( DISS SP-724 Contour	1 1015 5 SP-8 2R, Rayon	1 1035 S SP-9 15 RUM	1 (055 5 5P40 (A Rotton	/ 11120 5 5P-11 WEST-H	1 (145 5 5P12 EAST-H	1 (210) 5 58-13, WEST-14	1 (230 5 SP.14 Edur-H	1 1300 S SPIS WEST-M	96/13 1325 5 SP.16 NOTH-14	Date: Time: Relinquished by:	ally area yest ferry	Date: Time: Relinquished by:	I I MA I A I

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	Client: Alder & Alder Al	Selences Proje	Mailing Address: 703 C. Clinton	Kohbs N.W 88240 Proje	Phone #: 575-397-0510	email or Fax#: Proje	QA/QC Package:	Accreditation:	EDD (Type) # of C	Coole	Date Time Matrix Sample Name Type	OGIT OGGS SPLT NOTA-IT 1	( 0955 5 5P-18 GAST-14	1020 5 SP-19 Swort-14	I roto S SP.20 WEST-M	aby 1100 S SP-21 25 Parton						Date: Time: Relinquished by: Receiv	oblig ora No En Juny	6/19/20 (9.00 M)	



August 04, 2020 Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Devon Snapping 10 Fed 1H

OrderNo.: 2007C54

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/24/2020 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/4/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsClient Sample ID: SP-H-11AProject: Devon Snapping 10 Fed 1HCollection Date: 7/22/2020 9:55:00 AMLab ID: 2007C54-001Matrix: SOILReceived Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	70	60	mg/Kg	20	7/30/2020 5:20:57 PM	54063
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/27/2020 11:05:45 PM	53952
Surr: BFB	100	70-130	%Rec	1	7/27/2020 11:05:45 PM	53952
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/31/2020 12:20:31 AM	54001
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 12:20:31 AM	54001
Surr: DNOP	89.1	30.4-154	%Rec	1	7/31/2020 12:20:31 AM	54001
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	7/27/2020 11:05:45 PM	53952
Toluene	ND	0.050	mg/Kg	1	7/27/2020 11:05:45 PM	53952
Ethylbenzene	ND	0.050	mg/Kg	1	7/27/2020 11:05:45 PM	53952
Xylenes, Total	ND	0.10	mg/Kg	1	7/27/2020 11:05:45 PM	53952
Surr: 1,2-Dichloroethane-d4	94.4	70-130	%Rec	1	7/27/2020 11:05:45 PM	53952
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	7/27/2020 11:05:45 PM	53952
Surr: Dibromofluoromethane	100	70-130	%Rec	1	7/27/2020 11:05:45 PM	53952
Surr: Toluene-d8	99.4	70-130	%Rec	1	7/27/2020 11:05:45 PM	53952

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
- D Sample Diluted Due to MatrixH 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

Page 1 of 10

**Project:** Lab ID:

**Analytical Report** Lab Order 2007C54

Date Reported: 8/4/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: SP-H-13A Devon Snapping 10 Fed 1H Collection Date: 7/22/2020 10:35:00 AM 2007C54-002 Matrix: SOIL Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	130	59	mg/Kg	20	7/30/2020 5:57:59 PM	54063
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/27/2020 11:34:17 PM	53952
Surr: BFB	103	70-130	%Rec	1	7/27/2020 11:34:17 PM	53952
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 12:44:55 AM	54001
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 12:44:55 AM	54001
Surr: DNOP	87.6	30.4-154	%Rec	1	7/31/2020 12:44:55 AM	54001
EPA METHOD 8260B: VOLATILES SHORT LIST	г				Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	7/27/2020 11:34:17 PM	53952
Toluene	ND	0.049	mg/Kg	1	7/27/2020 11:34:17 PM	53952
Ethylbenzene	ND	0.049	mg/Kg	1	7/27/2020 11:34:17 PM	53952
Xylenes, Total	ND	0.098	mg/Kg	1	7/27/2020 11:34:17 PM	53952
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	7/27/2020 11:34:17 PM	53952
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	7/27/2020 11:34:17 PM	53952
Surr: Dibromofluoromethane	103	70-130	%Rec	1	7/27/2020 11:34:17 PM	53952
Surr: Toluene-d8	101	70-130	%Rec	1	7/27/2020 11:34:17 PM	53952

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 Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 10
Analytical Report Lab Order 2007C54

Date Reported: 8/4/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007C54-003

Devon Snapping 10 Fed 1H

Client Sample ID: SP-H-17A Collection Date: 7/22/2020 11:00:00 AM Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	ND	60	mg/Kg	20	7/30/2020 6:10:20 PM	54063
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2020 12:02:47 AM	53952
Surr: BFB	98.0	70-130	%Rec	1	7/28/2020 12:02:47 AM	53952
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/31/2020 1:09:18 AM	54001
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 1:09:18 AM	54001
Surr: DNOP	89.5	30.4-154	%Rec	1	7/31/2020 1:09:18 AM	54001
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	7/28/2020 12:02:47 AM	53952
Toluene	ND	0.049	mg/Kg	1	7/28/2020 12:02:47 AM	53952
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2020 12:02:47 AM	53952
Xylenes, Total	ND	0.098	mg/Kg	1	7/28/2020 12:02:47 AM	53952
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/28/2020 12:02:47 AM	53952
Surr: 4-Bromofluorobenzene	91.2	70-130	%Rec	1	7/28/2020 12:02:47 AM	53952
Surr: Dibromofluoromethane	105	70-130	%Rec	1	7/28/2020 12:02:47 AM	53952
Surr: Toluene-d8	98.6	70-130	%Rec	1	7/28/2020 12:02:47 AM	53952

Matrix: SOIL

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

Page 3 of 10

**Analytical Report** Lab Order 2007C54

Date Reported: 8/4/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007C54-004

Devon Snapping 10 Fed 1H

Client Sample ID: SP-H-18A Collection Date: 7/22/2020 11:30:00 AM Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	ND	60	mg/Kg	20	7/30/2020 6:22:41 PM	54063
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/28/2020 12:31:18 AM	53952
Surr: BFB	92.7	70-130	%Rec	1	7/28/2020 12:31:18 AM	53952
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/31/2020 1:33:48 AM	54001
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 1:33:48 AM	54001
Surr: DNOP	87.8	30.4-154	%Rec	1	7/31/2020 1:33:48 AM	54001
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	7/28/2020 12:31:18 AM	53952
Toluene	ND	0.050	mg/Kg	1	7/28/2020 12:31:18 AM	53952
Ethylbenzene	ND	0.050	mg/Kg	1	7/28/2020 12:31:18 AM	53952
Xylenes, Total	ND	0.10	mg/Kg	1	7/28/2020 12:31:18 AM	53952
Surr: 1,2-Dichloroethane-d4	97.5	70-130	%Rec	1	7/28/2020 12:31:18 AM	53952
Surr: 4-Bromofluorobenzene	87.0	70-130	%Rec	1	7/28/2020 12:31:18 AM	53952
Surr: Dibromofluoromethane	99.7	70-130	%Rec	1	7/28/2020 12:31:18 AM	53952
Surr: Toluene-d8	95.8	70-130	%Rec	1	7/28/2020 12:31:18 AM	53952

Matrix: SOIL

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
- Н
- Holding times for preparation or analysis exceeded ND
- Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 10

Analytical Report Lab Order 2007C54

Date Reported: 8/4/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007C54-005

Devon Snapping 10 Fed 1H

Client Sample ID: SP-H-19A Collection Date: 7/22/2020 12:10:00 PM Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	7/30/2020 6:35:01 PM	54063
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2020 12:59:48 AM	53952
Surr: BFB	99.9	70-130	%Rec	1	7/28/2020 12:59:48 AM	53952
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 1:58:19 AM	54001
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 1:58:19 AM	54001
Surr: DNOP	92.0	30.4-154	%Rec	1	7/31/2020 1:58:19 AM	54001
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	7/28/2020 12:59:48 AM	53952
Toluene	ND	0.049	mg/Kg	1	7/28/2020 12:59:48 AM	53952
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2020 12:59:48 AM	53952
Xylenes, Total	ND	0.099	mg/Kg	1	7/28/2020 12:59:48 AM	53952
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	7/28/2020 12:59:48 AM	53952
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	7/28/2020 12:59:48 AM	53952
Surr: Dibromofluoromethane	103	70-130	%Rec	1	7/28/2020 12:59:48 AM	53952
Surr: Toluene-d8	97.5	70-130	%Rec	1	7/28/2020 12:59:48 AM	53952

Matrix: SOIL

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

Page 5 of 10

**Analytical Report** Lab Order 2007C54

Date Reported: 8/4/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007C54-006

Devon Snapping 10 Fed 1H

Client Sample ID: SP-H-20A Collection Date: 7/22/2020 12:50:00 PM Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	7/30/2020 6:47:22 PM	54063
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2020 1:28:23 AM	53952
Surr: BFB	104	70-130	%Rec	1	7/28/2020 1:28:23 AM	53952
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/31/2020 2:22:53 AM	54001
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 2:22:53 AM	54001
Surr: DNOP	89.6	30.4-154	%Rec	1	7/31/2020 2:22:53 AM	54001
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	7/28/2020 1:28:23 AM	53952
Toluene	ND	0.049	mg/Kg	1	7/28/2020 1:28:23 AM	53952
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2020 1:28:23 AM	53952
Xylenes, Total	ND	0.098	mg/Kg	1	7/28/2020 1:28:23 AM	53952
Surr: 1,2-Dichloroethane-d4	92.7	70-130	%Rec	1	7/28/2020 1:28:23 AM	53952
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	7/28/2020 1:28:23 AM	53952
Surr: Dibromofluoromethane	98.8	70-130	%Rec	1	7/28/2020 1:28:23 AM	53952
Surr: Toluene-d8	102	70-130	%Rec	1	7/28/2020 1:28:23 AM	53952

Matrix: SOIL

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
- Н Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 10

Hall E	Iall Environmental Analysis Laboratory, Inc.								
Client: Project:	Safet Devo	y & Environmental Solutions on Snapping 10 Fed 1H							
Sample ID	: MB-54063	SampType: <b>mblk</b>	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 54063	RunNo: 70743						
Prep Date:	7/30/2020	Analysis Date: 7/30/2020	SeqNo: 2461854 Units: mg/Kg						
Analyte		Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD R	PDLimit	Qual				
Chloride		ND 1.5							

Chloride	ND	1.5								
Sample ID: LCS-54063	SampTyp	e: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch ID	): 540	063	F	RunNo: 7	0743				
Prep Date: 7/30/2020	Analysis Date	e: <b>7/</b> :	30/2020	S	SeqNo: 2	461855	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н 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

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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2007C54	WO#:	
04-Aug-20		

Client: Project:	Safety & Environmenta Devon Snapping 10 Fe	al Solutions d 1H							
Sample ID: MB-540	01 SampType	: MBLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID	54001	R	RunNo: <b>70</b>	722				
Prep Date: 7/28/2	020 Analysis Date	7/30/2020	S	SeqNo: 24	62290	Units: mg/Kg	1		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (	DRO) ND	10							
Motor Oil Range Organic	s (MRO) ND	50							
Surr: DNOP	9.7	10.00		97.1	30.4	154			
Sample ID: LCS-54	001 SampType	LCS	Tes	tCode: EP	A Method	8015M/D: Die:	sel Range	e Organics	
Client ID: LCSS	Batch ID	54001	R	RunNo: <b>70</b>	722				
Prep Date: 7/28/2	020 Analysis Date	7/30/2020	S	SeqNo: 24	62291	Units: mg/Kg	I		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (	DRO) 49	10 50.00	0	98.0	70	130			
Surr: DNOP	4.7	5.000		93.7	30.4	154			
Sample ID: MB-540	86 SampType	BLK	Tes	tCode: EP	A Method	8015M/D: Die:	sel Range	e Organics	
Client ID: PBS	Batch ID	54086	R	RunNo: <b>70</b>	751				
Prep Date: 7/31/2	020 Analysis Date	7/31/2020	S	SeqNo: 24	62385	Units: %Rec			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10	10.00		103	30.4	154			
Sample ID: LCS-54	086 SampType	LCS	Tes	tCode: EP	A Method	8015M/D: Die:	sel Range	e Organics	
Client ID: LCSS	Batch ID	54086	R	RunNo: <b>70</b>	751		-		
Prep Date: 7/31/2	020 Analysis Date	7/31/2020	S	SeqNo: 24	62386	Units: %Rec			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7	5.000		93.4	30.4	154			

#### **Qualifiers:**

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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

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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: S	afety & Enviror	nmental S	olutions								
Project: D	Devon Snapping	10 Fed 11	Η								
Sample ID: mb-53952	2 Sar	npType: <b>M</b>	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: PBS	В	atch ID: 53	952	F	RunNo: 7	0643					
Prep Date: 7/25/202	20 Analys	is Date: 7	/27/2020	S	SeqNo: 2	458337	Units: mg/Kg				
Analyte	Resu	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	N	0.025									
Toluene	N	0.050									
Ethylbenzene	N	0.050									
Xylenes, Total	N	0.10									
Surr: 1,2-Dichloroethane-	-d4 0.50	C	0.5000		99.4	70	130				
Surr: 4-Bromofluorobenzo	ene 0.40	6	0.5000		92.6	70	130				
Surr: Dibromofluorometha	ane 0.5	1	0.5000		103	70	130				
Surr: Toluene-d8	0.5	D	0.5000		99.9	70	130				
Sample ID: Ics-53952	2 Sar	npType: <b>L(</b>	CS4	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: BatchQC	В	atch ID: 53	952	F	RunNo: 7	0643					
Prep Date: 7/25/202	20 Analys	is Date: 7	/27/2020	S	SeqNo: 2	458338	Units: <b>mg/k</b>	٢g			
Analyte	Resu	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	100	80	120				
Toluene	0.9	5 0.050	1.000	0	94.9	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	80	120				
Xylenes, Total	3.	1 0.10	3.000	0	102	80	120				
Surr: 1,2-Dichloroethane-	-d4 0.48	3	0.5000		96.4	70	130				
Surr: 4-Bromofluorobenzo	ene 0.4	7	0.5000		93.1	70	130				
Surr: Dibromofluorometha	ane 0.4	7	0.5000		94.8	70	130				
Surr: Toluene-d8	0.4	3	0.5000		95.5	70	130				

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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04-Aug-20

WO#:

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Safety &Project:Devon \$	& Environmental So Snapping 10 Fed 11	olutions H							
Sample ID: mb-53952	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: <b>PBS</b> Prep Date: <b>7/25/2020</b>	Batch ID: 53 Analysis Date: 7	952 /27/2020	S	anno: 70 SeqNo: 24	)643 158363	Units: <b>mg/K</b>	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 510	500.0		101	70	130			
Sample ID: Ics-53952	SampType: LC	cs	Tes	tCode: EF	A Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch ID: 53	952	R	unNo: <b>70</b>	0643				
Prep Date: 7/25/2020	Analysis Date: 7	/27/2020	S	GeqNo: 24	158364	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0	25.00	0	83.0	70	130			
Surr: BFB	520	500.0		104	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
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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2007C54

04-Aug-20

WO#:

HALL ENVIR ANALL LABOR	ONMENTAL (SIS RATORY	Hall Environm TEL: 505-345. Website: clier	ental Analysis Labora 4901 Hawkins Albuquerque, NM 87 3975 FAX: 505-345-4 nts.hallenvironmental.	tory NE 109 <b>Sam</b> 107 com	Sample Log-In Check List					
Client Name:	Safety & Environmental Solutions	Work Order Nur	mber: 2007C54		RcptNo:	1				
Received By: Completed By: Reviewed By:	Scott Anderson Isaiah Ortiz GM -7	7/24/2020 9:50:00 7/24/2020 10:27:4 124120	9 AM 16 AM	I_O	$\star$					
Chain of Cust 1. Is Chain of Cu 2. How was the s	<b>tody</b> istody complete? sample delivered?		Yes <b>v</b> <u>Courier</u>	No 🗌	Not Present					
<u>Log In</u> 3. Was an attem	pt made to cool the sample	· •	Yes 🗹	No 🗌	NA 🗌					
4. Were all samp	les received at a temperatu	ure of >0°C to 6.0°C	Yes 🔽	No 🗌	NA 🗌					
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗋						
<ol> <li>6. Sufficient samp</li> <li>7. Are samples (e</li> </ol>	ple volume for indicated tes except VOA and ONG) prop	t(s)? perly preserved?	Yes 🗹 Yes 🗹	No 🗌 No 🗌	_					
<ol> <li>8. Was preservati</li> <li>9. Received at least</li> </ol>	ive added to bottles? ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗹	NA 🗌					
10, Were any sam 11.Does paperwor	ple containers received brook	oken?	Yes 🗹	No 🗹 「	# of preserved bottles checked for pH:					
(Note discrepant) 12. Are matrices co	ncies on chain of custody) orrectly identified on Chain	of Custody?	Yes 🗹	No 🗌	(<2 or > Adjusted?	2 unless noted)				
<ol> <li>Is it clear what</li> <li>Were all holdin (If no, notify cur)</li> </ol>	analyses were requested? g times able to be met? stomer for authorization.)		Yes ✔ Yes ✔	No 🗌 No 🗌	-Checked by:	PA 7.24 520				
<u>Special Handli</u> 15 Was client not	<b>ng (if applicable)</b> ified of all discrenancies wi	th this order?		No 🗌						
Person N By Whor Regardin Client Ins 16. Additional rem	Notified:	Date Via:	eMail Ph	none 🗌 Fax						
17. Cooler Inform	nation									

Capler No		Candition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Not Present			

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<i>Received by OCD: 3/13/2023</i>	7:47:24 AM					Page 82 of 92
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Received by OCD: 3/13/2023 7:47:24 AM			PIM (	DIL CO	NSERV.	ATION	Page 83 of 9
District I 1625 N. French Dr., Hobbs, NM 88240 District II En	State of l ergy Minerals a	of New Mexico Is and Natural Resources		MAR	1 3 2018		Form C-141 Revised April 3, 2017
811 S. First St., Artesia, NM 88210 District III District III District III Oil Consert			vision	Subr		to appropri	ate District Office in
District IV 1/200 St Francis Dr. Santa Fe. NM 87505	1220 South	St. Franc	is Dr.	۲۷۴۵ کې	'm t v (m1960	ordance wi	th 19.15.29 NMAC.
	Santa Fe	, NM 875	05			·· •••	
Kelease	Notification	and Co	orrective A	ction	<b>-</b>	-	
Name of Company Devon Energy Production Co	mpany/1/37	Contact We	sley Ryan, Pro	duction I	X Initial Foreman	Report	Final Report
Address 6488 Seven Rivers Hwy Artesia, NM 88	210	Telephone N	lo. 575-390-54	36			
Facility Name Snapping 10 Federal 1H (release of Ross Ranch 10 Federal 1 location API # 30-015-2	ccurred at I 9605)	Facility Typ	e Oil		<del></del>		
Surface Owner Federal	Mineral Owner F	ederal			API No.	30-015-3	7899
	LOCATION	NOF REI	LEASE				
Unit Letter Section Township Range Feet f H 10 26S 31E	from the North/S	South Line	Feet from the	East/W	est Line	County Eddy	
Latitude	e_32.059217_ <b>Lo</b>	ngitude_10	3.759247_ NA	D83			
Tupe of Palease	NATURE	OF RELI	EASE		Voluma P	acovered	
Oil		16bbls Oil	Is Oil None				
Source of Release PSI Valve		Date and H February 2 MST	our of Occurrenc 7, 2018 @ 12:30	CeDate and Hour of DiscoveryPMFebruary 27, 2018 @ 12:30 PM MST			
Was Immediate Notice Given?	Not Required	If YES, To NMOCD-N	Whom? Aike Bratcher &	Crystal W	Veaver		
By Whom?		BLM-Shell Date and H	y Tucker		<u>_</u>		
Mike Shoemaker, EHS Professional		February 2	28, 2018 @ 9:48	AM MST			
Yes X No		N/A					
lf a Watercourse was Impacted, Describe Fully.* N/A		<u> </u>		* <u>ator</u>			
Describe Cause of Problem and Remedial Action Taker	n.*						
The back psi valve failed on the 2 phase separator causing the vessel to swamp out causing a release and misting overspray to the pad and adjacent pasture. Switched out of the production separator to prevent any further release.							
Describe Area Affected and Cleanup Action Taken.*							
A total of approximately 16 bbbls of oil (approximately 15.5 bbls to the pad surface and approximately 0.5 bbls overspray was released to the adjacent pasture). None was recovered. An environmental contractor will be called to assist with delineation and remediation efforts.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal state or local laws and/or regulations							
			OIL CON	SERV	ATION	DIVISIO	<u>DN</u>
Signature: Dana DelaRosa		Annroved by	Environmental	necialist	1. z		
Printed Name: Dana DeLaRosa	······	Approved by Environing on the second state of the second state					
Title: Field Admin Support		Approval Date: 3/14/18 Expiration Date: NIA					1A
E-mail Address: Dana.Delarosa@dvn.com		Conditions of	f Approval	ALLA	ahod	Attached	
Date: 3/13/2018 Phone: 57	5.746.5594		<u> </u>	WTU	UN		akp-4/del

Date: 3/13/2018 \* Attach Additional Sheets If Necessary

#### Operator/Responsible Party,

The OCD has received the form C-141 you provided on <u>3/13/2018</u> regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number  $\widehat{AP-4\mu}$  has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in <u>ARTESIA</u> on or before 4/13/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

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

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

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

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

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

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

#### Received by OCD: 3/13/2023 7:47:24 AM

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## **Devon Energy**

#### **Snapping 10 Fed 1h Battery Excavation & Remediation**









## Devon Energy

## **Snapping 10 Fed 1h Battery Excavation & Remediation**









## Devon Energy Snapping 10 Fed 1h Battery Excavation & Remediation









# Devon Energy

### **Snapping 10 Fed 1h Battery Excavation & Remediation**









# Devon Energy Snapping 10 Fed 1h Battery Excavation & Remediation









## **Devon Energy**

## **Snapping 10 Fed 1h Battery Excavation & Remediation**









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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	196003
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	3/30/2023

CONDITIONS

Action 196003