# Devon Energy Spud 16 State 8H

# Section 16, Township 23S, Range 29E Eddy County, New Mexico

# **CLOSURE REPORT**

NAB1909135211 2RP-5323

30-015-40038

**April 7, 2020** 



Prepared for:
Devon Energy Production Company
6488 Seven Rivers Highway
By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

#### I. Company Contacts

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

#### II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy Corporation to assess and remediate a spill area at the Spud 16 State 8H.

According to the C-141, the cause of release was a broken site glass on the heater treater. The affected area measured approximately 125' x 30' and all fluids remained on location.

#### III. Surface and Ground Water

There is no record of depth to groundwater in the immediate vicinity of the site location. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 31' bgs.

#### IV. Characterization

As noted in the Workplan approval email sent by Robert Hamlet of NMOCD via email on 10/2/2019, the target levels for closure criteria are 600mg/kg for chlorides, 100 mg/kg for TPH, 50 mg/kg for BTEX, and 10 mg/kg for Benzene.

#### V. Work Performed

Based on the recommendation of NMOCD-approved workplan, SESI performed the remediation by removing all contaminated material and disposing of the material in an OCD-approved landfill. Approximately, 700 yds3 of material were removed and the excavated area was backfilled with approximately the same amount of backfill. Twenty-two confirmation samples were obtained and sent to the lab for testing for backfill was completed. The results of the sampling are captured in the table below:

Sample ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl	Total
							benzene	Xylenes
SP1 @ W WALL	350	ND	ND	ND	ND	ND	ND	ND
SP2 @ N WALL	340	ND	ND	ND	ND	ND	ND	ND
SP3 @ BTM 1'	350	ND	ND	ND	ND	ND	ND	ND
SP4 @ S WALL	150	ND	ND	ND	ND	ND	ND	ND
SP5 @ BTM 1'	160	ND	ND	ND	ND	ND	ND	ND
SP6 @ N WALL	160	ND	ND	ND	ND	ND	ND	ND
SP7 @ S WALL	71	ND	ND	ND	ND	ND	ND	ND
SP8 @ N WALL	400	ND	ND	ND	ND	ND	ND	ND
SP9 @ BTM 1'	400	ND	ND	ND	ND	ND	ND	ND
SP10 @ BTM 1'	400	ND	ND	ND	ND	ND	ND	ND
SP11 @ BTM 1'	340	ND	ND	ND	ND	ND	ND	ND
SP12 @ N WALL	330	ND	ND	ND	ND	ND	ND	ND
SP13 @ BTM 1.5'	150	24	ND	ND	ND	ND	ND	ND
SP14 @ S WALL	160	11	ND	ND	ND	ND	ND	ND
SP15 @ N WALL	330	ND	ND	ND	ND	ND	ND	ND
SP16 @ BTM 1.5'	160	14	ND	ND	ND	ND	ND	ND
SP17 @ S WALL	150	ND	ND	ND	ND	ND	ND	ND
SP18 @ N WALL	150	12	ND	ND	ND	ND	ND	ND
SP19 @ BTM 1'	100	ND	ND	ND	ND	ND	ND	ND
SP20 @ S WALL	69	ND	ND	ND	ND	ND	ND	ND
SP21 @ BTM 1'	400	ND	ND	ND	ND	ND	ND	ND
SP22 @ BTM 1'	340	ND	ND	ND	ND	ND	ND	ND

#### **VI. Conclusion**

Due to all confirmation samples meeting the closure criteria established in the approved workplan, SESI, on behalf of Devon, recommends no further remediation activities.

Therefore, SESI respectfully submits this closure report as evidence that the closure criteria have been met and also requests closure approval.

#### VII. Supporting Documentation for Closure

C-141, page 6 for closure Closure map with confirmation samples Photos of excavation prior to backfill Laboratory Analysis Received by OCD: 5/8/2020 11:39:32 AM
Form C-141 State of New Mexico
Page 6 Oil Conservation Division

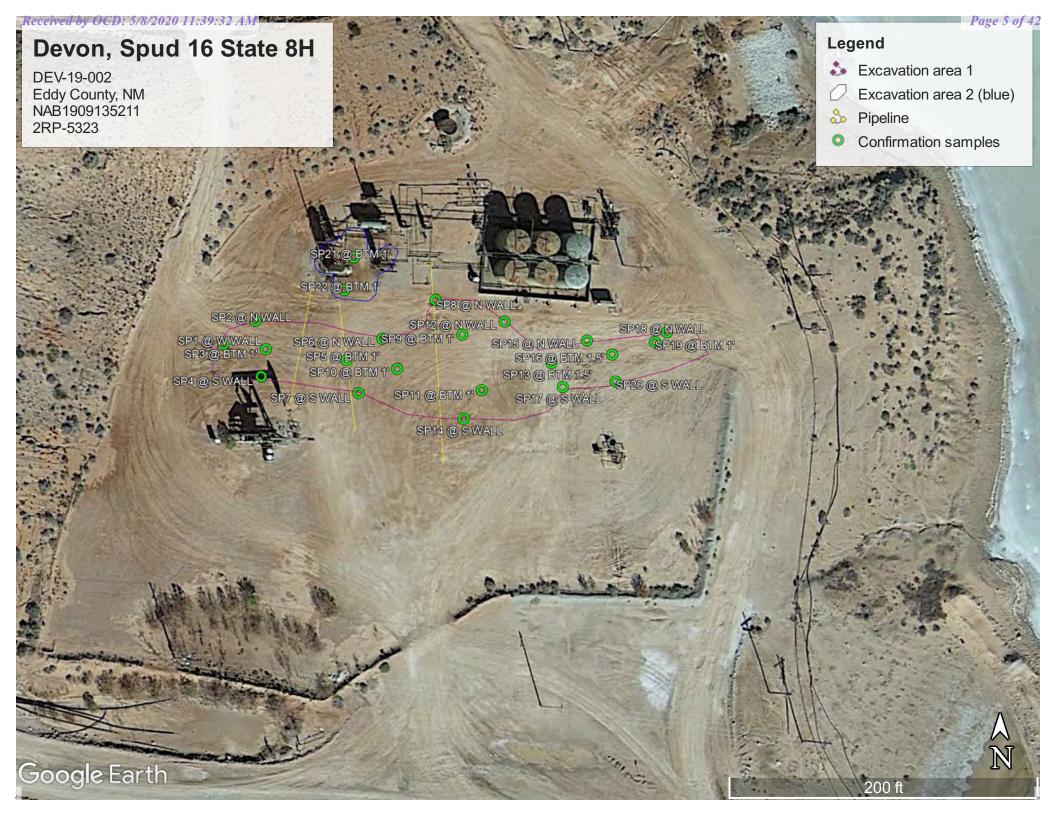
	Page 4 of 4	12
Incident ID		
District RP		
Facility ID		
Application ID		

### Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC									
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)										
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)										
☐ Description of remediation activities										
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replacement human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in									
Printed Name:										
Signature: Tom Bynum	Date:									
email:	Telephone:									
OCD Only										
Received by:	Date:									
	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:	Date:									
Printed Name:	Title:									



Received by OCD: 5/8/2020 11:39:32 AM









Received by OCD: 5/8/2020 11:39:32 AM

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Received by OCD: 5/8/2020 11:39:32 AM













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

March 02, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Devon Spud 16 State 8H 2RP 5323 OrderNo.: 2002981

#### Dear Bob Allen:

Hall Environmental Analysis Laboratory received 22 sample(s) on 2/22/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2002981**Date Reported: **3/2/2020** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-1 West Wall

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/18/2020 9:50:00 AM

 Lab ID:
 2002981-001
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 350 60 mg/Kg 20 2/28/2020 2:56:26 PM 50753 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.9 mg/Kg 2/26/2020 5:50:49 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 2/26/2020 5:50:49 PM 50643 Surr: DNOP 50643 140 55.1-146 %Rec 2/26/2020 5:50:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 2/27/2020 11:51:16 PM 50631 Gasoline Range Organics (GRO) ND 4.9 mg/Kg Surr: BFB 83.0 %Rec 2/27/2020 11:51:16 PM 50631 66.6-105 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Methyl tert-butyl ether (MTBE) ND 2/27/2020 11:51:16 PM 50631 0.098 mg/Kg Benzene ND 0.025 mg/Kg 2/27/2020 11:51:16 PM 50631 Toluene ND 0.049 mg/Kg 2/27/2020 11:51:16 PM 50631 Ethylbenzene ND 0.049 mg/Kg 2/27/2020 11:51:16 PM 50631 Xylenes, Total ND 0.098 2/27/2020 11:51:16 PM 50631 mg/Kg Surr: 4-Bromofluorobenzene 2/27/2020 11:51:16 PM 50631 92.6 80-120 %Rec

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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Lab Order **2002981** 

#### Date Reported: 3/2/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: SP-2 North Wall

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/18/2020 9:55:00 AM

 Lab ID:
 2002981-002
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	340	59	mg/Kg	20	2/28/2020 3:08:47 PM	50753
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/26/2020 6:12:46 PM	50643
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/26/2020 6:12:46 PM	50643
Surr: DNOP	111	55.1-146	%Rec	1	2/26/2020 6:12:46 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2020 12:14:34 AM	50631
Surr: BFB	81.6	66.6-105	%Rec	1	2/28/2020 12:14:34 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	2/28/2020 12:14:34 AM	50631
Benzene	ND	0.024	mg/Kg	1	2/28/2020 12:14:34 AM	50631
Toluene	ND	0.048	mg/Kg	1	2/28/2020 12:14:34 AM	50631
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2020 12:14:34 AM	50631
Xylenes, Total	ND	0.096	mg/Kg	1	2/28/2020 12:14:34 AM	50631
Surr: 4-Bromofluorobenzene	89.7	80-120	%Rec	1	2/28/2020 12:14:34 AM	50631

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

- 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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Lab Order **2002981** 

Date Reported: 3/2/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-3 Bottom 1ft

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/18/2020 10:10:00 AM

 Lab ID:
 2002981-003
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	350	60	mg/Kg	20	2/28/2020 3:45:50 PM	50753
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/26/2020 6:34:38 PM	50643
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/26/2020 6:34:38 PM	50643
Surr: DNOP	136	55.1-146	%Rec	1	2/26/2020 6:34:38 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/28/2020 12:37:52 AM	50631
Surr: BFB	82.5	66.6-105	%Rec	1	2/28/2020 12:37:52 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/28/2020 12:37:52 AM	50631
Toluene	ND	0.046	mg/Kg	1	2/28/2020 12:37:52 AM	50631
Ethylbenzene	ND	0.046	mg/Kg	1	2/28/2020 12:37:52 AM	50631
Xylenes, Total	ND	0.093	mg/Kg	1	2/28/2020 12:37:52 AM	50631
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	2/28/2020 12:37:52 AM	50631

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

- 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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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-4 South Wall

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/19/2020 1:00:00 PM

 Lab ID:
 2002981-004
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	150	60		mg/Kg	20	2/28/2020 3:58:11 PM	50753
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	2/26/2020 6:56:35 PM	50643
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/26/2020 6:56:35 PM	50643
Surr: DNOP	152	55.1-146	S	%Rec	1	2/26/2020 6:56:35 PM	50643
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2020 1:47:46 AM	50631
Surr: BFB	79.5	66.6-105		%Rec	1	2/28/2020 1:47:46 AM	50631
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2020 1:47:46 AM	50631
Toluene	ND	0.048		mg/Kg	1	2/28/2020 1:47:46 AM	50631
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2020 1:47:46 AM	50631
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2020 1:47:46 AM	50631
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	2/28/2020 1:47:46 AM	50631

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

- 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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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-5 Bottom 1ft

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/19/2020 12:30:00 PM

 Lab ID:
 2002981-005
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 160 60 mg/Kg 20 2/28/2020 4:10:32 PM 50753 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 8.7 mg/Kg 2/26/2020 8:02:00 PM 50643 Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 2/26/2020 8:02:00 PM 50643 Surr: DNOP 2/26/2020 8:02:00 PM 50643 130 55.1-146 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 2/28/2020 2:11:00 AM 50631 4.6 mg/Kg 1 Surr: BFB 82.4 66.6-105 %Rec 2/28/2020 2:11:00 AM 50631 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 2/28/2020 2:11:00 AM ND 50631 Benzene 0.023 mg/Kg Toluene ND 0.046 mg/Kg 2/28/2020 2:11:00 AM 50631 Ethylbenzene ND 0.046 mg/Kg 1 2/28/2020 2:11:00 AM 50631 Xylenes, Total ND 0.093 mg/Kg 2/28/2020 2:11:00 AM 50631 Surr: 4-Bromofluorobenzene 92.2 80-120 %Rec 2/28/2020 2:11:00 AM 50631

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

- 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: 3/2/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-6 North Wall

**Project:** Devon Spud 16 State 8H 2RP 5323 **Collection Date:** 2/19/2020 11:25:00 AM

**Lab ID:** 2002981-006 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	160	60	mg/Kg	20	2/28/2020 4:22:53 PM	50753
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/26/2020 8:23:56 PM	50643
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/26/2020 8:23:56 PM	50643
Surr: DNOP	125	55.1-146	%Rec	1	2/26/2020 8:23:56 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/28/2020 2:34:12 AM	50631
Surr: BFB	78.3	66.6-105	%Rec	1	2/28/2020 2:34:12 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2020 2:34:12 AM	50631
Toluene	ND	0.047	mg/Kg	1	2/28/2020 2:34:12 AM	50631
Ethylbenzene	ND	0.047	mg/Kg	1	2/28/2020 2:34:12 AM	50631
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2020 2:34:12 AM	50631
Surr: 4-Bromofluorobenzene	87.8	80-120	%Rec	1	2/28/2020 2:34:12 AM	50631

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

- 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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Lab Order 2002981

### Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/2/2020

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-7 South Wall

**Project:** Devon Spud 16 State 8H 2RP 5323 **Collection Date:** 2/19/2020 11:15:00 AM

**Lab ID:** 2002981-007 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	71	60	mg/Kg	20	2/28/2020 4:35:14 PM	50753
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/26/2020 8:45:49 PM	50643
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/26/2020 8:45:49 PM	50643
Surr: DNOP	112	55.1-146	%Rec	1	2/26/2020 8:45:49 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2020 2:57:26 AM	50631
Surr: BFB	80.6	66.6-105	%Rec	1	2/28/2020 2:57:26 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2020 2:57:26 AM	50631
Toluene	ND	0.048	mg/Kg	1	2/28/2020 2:57:26 AM	50631
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2020 2:57:26 AM	50631
Xylenes, Total	ND	0.096	mg/Kg	1	2/28/2020 2:57:26 AM	50631
Surr: 4-Bromofluorobenzene	90.6	80-120	%Rec	1	2/28/2020 2:57:26 AM	50631

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

- 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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Lab Order 2002981

### Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/2/2020

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-8 North Wall

Project: Devon Spud 16 State 8H 2RP 5323 Collection Date: 2/19/2020 11:00:00 AM

**Lab ID:** 2002981-008 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	400	60	mg/Kg	20	2/28/2020 4:47:35 PM	50753
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/26/2020 9:07:42 PM	50643
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/26/2020 9:07:42 PM	50643
Surr: DNOP	116	55.1-146	%Rec	1	2/26/2020 9:07:42 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/28/2020 3:20:38 AM	50631
Surr: BFB	80.7	66.6-105	%Rec	1	2/28/2020 3:20:38 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2020 3:20:38 AM	50631
Toluene	ND	0.047	mg/Kg	1	2/28/2020 3:20:38 AM	50631
Ethylbenzene	ND	0.047	mg/Kg	1	2/28/2020 3:20:38 AM	50631
Xylenes, Total	ND	0.094	mg/Kg	1	2/28/2020 3:20:38 AM	50631
Surr: 4-Bromofluorobenzene	88.4	80-120	%Rec	1	2/28/2020 3:20:38 AM	50631

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 2002981

Date Reported: 3/2/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Client Sample ID: SP-9 Bottom 1ft

Devon Spud 16 State 8H 2RP 5323 Collection Date: 2/19/2020 10:45:00 AM

2002981-009 Lab ID: Matrix: SOIL Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	400	60	mg/Kg	20	2/28/2020 4:59:56 PM	50753
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/26/2020 9:29:24 PM	50643
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/26/2020 9:29:24 PM	50643
Surr: DNOP	126	55.1-146	%Rec	1	2/26/2020 9:29:24 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/28/2020 3:43:51 AM	50631
Surr: BFB	79.3	66.6-105	%Rec	1	2/28/2020 3:43:51 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	2/28/2020 3:43:51 AM	50631
Toluene	ND	0.049	mg/Kg	1	2/28/2020 3:43:51 AM	50631
Ethylbenzene	ND	0.049	mg/Kg	1	2/28/2020 3:43:51 AM	50631
Xylenes, Total	ND	0.099	mg/Kg	1	2/28/2020 3:43:51 AM	50631
Surr: 4-Bromofluorobenzene	89.0	80-120	%Rec	1	2/28/2020 3:43:51 AM	50631

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
- Η 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

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

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Lab Order **2002981**Date Reported: **3/2/2020** 

Client Sample ID: SP-10 Bottom 1ft

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Spud 16 State 8H 2RP 5323 Collection Date: 2/19/2020 10:30:00 AM

**Lab ID:** 2002981-010 **Matrix:** SOIL **Received Date:** 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	400	60	mg/Kg	20	2/28/2020 7:28:08 PM	50769
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/26/2020 9:51:27 PM	50643
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/26/2020 9:51:27 PM	50643
Surr: DNOP	132	55.1-146	%Rec	1	2/26/2020 9:51:27 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/28/2020 4:07:00 AM	50631
Surr: BFB	80.7	66.6-105	%Rec	1	2/28/2020 4:07:00 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/28/2020 4:07:00 AM	50631
Toluene	ND	0.047	mg/Kg	1	2/28/2020 4:07:00 AM	50631
Ethylbenzene	ND	0.047	mg/Kg	1	2/28/2020 4:07:00 AM	50631
Xylenes, Total	ND	0.093	mg/Kg	1	2/28/2020 4:07:00 AM	50631
Surr: 4-Bromofluorobenzene	89.9	80-120	%Rec	1	2/28/2020 4:07:00 AM	50631

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

- 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

nple pH Not In Range
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Lab Order 2002981

#### Date Reported: 3/2/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: SP-11 Bottom 1 ft

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/19/2020 10:20:00 AM

 Lab ID:
 2002981-011
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	340	60	mg/Kg	20	2/28/2020 8:05:11 PM	50769
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/26/2020 10:13:10 PM	50643
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/26/2020 10:13:10 PM	50643
Surr: DNOP	94.5	55.1-146	%Rec	1	2/26/2020 10:13:10 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/28/2020 4:30:13 AM	50631
Surr: BFB	80.8	66.6-105	%Rec	1	2/28/2020 4:30:13 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2020 4:30:13 AM	50631
Toluene	ND	0.049	mg/Kg	1	2/28/2020 4:30:13 AM	50631
Ethylbenzene	ND	0.049	mg/Kg	1	2/28/2020 4:30:13 AM	50631
Xylenes, Total	ND	0.098	mg/Kg	1	2/28/2020 4:30:13 AM	50631
Surr: 4-Bromofluorobenzene	90.1	80-120	%Rec	1	2/28/2020 4:30:13 AM	50631

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

- 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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Lab Order 2002981

Date Reported: 3/2/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: SP-12 North Wall

**Project:** Devon Spud 16 State 8H 2RP 5323 Collection Date: 2/20/2020 10:50:00 AM 2002981-012 Lab ID: Matrix: SOIL Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	330	60	mg/Kg	20	2/28/2020 9:06:57 PM	50769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/26/2020 10:34:55 PM	50643
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/26/2020 10:34:55 PM	50643
Surr: DNOP	97.9	55.1-146	%Rec	1	2/26/2020 10:34:55 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2020 4:53:22 AM	50631
Surr: BFB	80.3	66.6-105	%Rec	1	2/28/2020 4:53:22 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2020 4:53:22 AM	50631
Toluene	ND	0.048	mg/Kg	1	2/28/2020 4:53:22 AM	50631
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2020 4:53:22 AM	50631
Xylenes, Total	ND	0.097	mg/Kg	1	2/28/2020 4:53:22 AM	50631
Surr: 4-Bromofluorobenzene	89.4	80-120	%Rec	1	2/28/2020 4:53:22 AM	50631

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
- Η 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

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

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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-013

Matrix: SOIL

Collection Date: 2/19/2020 10:10:00 AM

Pageived Date: 2/22/2020 0:05:00 AM

Client Sample ID: SP-13 Bottom 1.5ft

Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	150	60	mg/Kg	20	2/28/2020 9:19:17 PM	50769
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	24	9.1	mg/Kg	1	2/26/2020 10:56:45 PM	50643
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/26/2020 10:56:45 PM	50643
Surr: DNOP	127	55.1-146	%Rec	1	2/26/2020 10:56:45 PM	50643
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/28/2020 5:16:36 AM	50631
Surr: BFB	78.3	66.6-105	%Rec	1	2/28/2020 5:16:36 AM	50631
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/28/2020 5:16:36 AM	50631
Toluene	ND	0.047	mg/Kg	1	2/28/2020 5:16:36 AM	50631
Ethylbenzene	ND	0.047	mg/Kg	1	2/28/2020 5:16:36 AM	50631
Xylenes, Total	ND	0.094	mg/Kg	1	2/28/2020 5:16:36 AM	50631
Surr: 4-Bromofluorobenzene	87.4	80-120	%Rec	1	2/28/2020 5:16:36 AM	50631

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

- 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 2002981

Date Reported: 3/2/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-14 South Wall

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/20/2020 10:35:00 AM

 Lab ID:
 2002981-014
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 160 60 mg/Kg 20 2/28/2020 9:31:38 PM 50769 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: **DJF** Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 2/25/2020 3:52:35 PM Surr: BFB 99.0 70-130 %Rec 1 2/25/2020 3:52:35 PM 50636 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 11 9.7 mg/Kg 2/26/2020 3:59:55 PM 50644 Motor Oil Range Organics (MRO) ND 1 2/26/2020 3:59:55 PM 50644 49 mg/Kg Surr: DNOP 126 55.1-146 %Rec 2/26/2020 3:59:55 PM 50644 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 2/25/2020 3:52:35 PM Benzene 0.024 mg/Kg 50636 1 Toluene ND 0.047 mg/Kg 2/25/2020 3:52:35 PM 50636 Ethylbenzene ND 0.047 mg/Kg 1 2/25/2020 3:52:35 PM 50636 Xylenes, Total ND 0.094 mg/Kg 2/25/2020 3:52:35 PM 50636 Surr: 1,2-Dichloroethane-d4 79.3 70-130 %Rec 2/25/2020 3:52:35 PM 50636 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 2/25/2020 3:52:35 PM 50636 Surr: Dibromofluoromethane 86.1 70-130 %Rec 1 2/25/2020 3:52:35 PM 50636 Surr: Toluene-d8 98.4 70-130 %Rec 2/25/2020 3:52:35 PM 50636

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

- 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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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-15 North Wall

 Project:
 Devon Spud 16 State 8H 2RP 5323
 Collection Date: 2/20/2020 10:15:00 AM

 Lab ID:
 2002981-015
 Matrix: SOIL
 Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	330	60	mg/Kg	20	2/28/2020 9:43:59 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/25/2020 5:21:17 PM	50636
Surr: BFB	102	70-130	%Rec	1	2/25/2020 5:21:17 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/26/2020 5:12:28 PM	50644
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/26/2020 5:12:28 PM	50644
Surr: DNOP	94.2	55.1-146	%Rec	1	2/26/2020 5:12:28 PM	50644
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	2/25/2020 5:21:17 PM	50636
Toluene	ND	0.050	mg/Kg	1	2/25/2020 5:21:17 PM	50636
Ethylbenzene	ND	0.050	mg/Kg	1	2/25/2020 5:21:17 PM	50636
Xylenes, Total	ND	0.10	mg/Kg	1	2/25/2020 5:21:17 PM	50636
Surr: 1,2-Dichloroethane-d4	82.8	70-130	%Rec	1	2/25/2020 5:21:17 PM	50636
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	2/25/2020 5:21:17 PM	50636
Surr: Dibromofluoromethane	86.6	70-130	%Rec	1	2/25/2020 5:21:17 PM	50636
Surr: Toluene-d8	100	70-130	%Rec	1	2/25/2020 5:21:17 PM	50636

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

- 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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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-016

Matrix: SOIL

**Collection Date:** 2/19/2020 9:55:00 AM **Received Date:** 2/22/2020 9:05:00 AM

Client Sample ID: SP-16 Bottom 1.5ft

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	160	60	mg/Kg	20	2/28/2020 9:56:19 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/25/2020 5:50:44 PM	50636
Surr: BFB	102	70-130	%Rec	1	2/25/2020 5:50:44 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst	BRM
Diesel Range Organics (DRO)	14	9.3	mg/Kg	1	2/26/2020 5:36:32 PM	50644
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/26/2020 5:36:32 PM	50644
Surr: DNOP	139	55.1-146	%Rec	1	2/26/2020 5:36:32 PM	50644
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	2/25/2020 5:50:44 PM	50636
Toluene	ND	0.047	mg/Kg	1	2/25/2020 5:50:44 PM	50636
Ethylbenzene	ND	0.047	mg/Kg	1	2/25/2020 5:50:44 PM	50636
Xylenes, Total	ND	0.093	mg/Kg	1	2/25/2020 5:50:44 PM	50636
Surr: 1,2-Dichloroethane-d4	79.9	70-130	%Rec	1	2/25/2020 5:50:44 PM	50636
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	2/25/2020 5:50:44 PM	50636
Surr: Dibromofluoromethane	86.7	70-130	%Rec	1	2/25/2020 5:50:44 PM	50636
Surr: Toluene-d8	96.6	70-130	%Rec	1	2/25/2020 5:50:44 PM	50636

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

- 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 2002981

Date Reported: 3/2/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-017

Matrix: SOIL

**Collection Date:** 2/20/2020 9:50:00 AM **Received Date:** 2/22/2020 9:05:00 AM

Client Sample ID: SP-17 South Wall

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	150	60	mg/Kg	20	2/28/2020 10:08:40 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/25/2020 6:20:08 PM	50636
Surr: BFB	102	70-130	%Rec	1	2/25/2020 6:20:08 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/26/2020 6:00:32 PM	50644
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/26/2020 6:00:32 PM	50644
Surr: DNOP	115	55.1-146	%Rec	1	2/26/2020 6:00:32 PM	50644
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	2/25/2020 6:20:08 PM	50636
Toluene	ND	0.049	mg/Kg	1	2/25/2020 6:20:08 PM	50636
Ethylbenzene	ND	0.049	mg/Kg	1	2/25/2020 6:20:08 PM	50636
Xylenes, Total	ND	0.098	mg/Kg	1	2/25/2020 6:20:08 PM	50636
Surr: 1,2-Dichloroethane-d4	79.4	70-130	%Rec	1	2/25/2020 6:20:08 PM	50636
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/25/2020 6:20:08 PM	50636
Surr: Dibromofluoromethane	82.9	70-130	%Rec	1	2/25/2020 6:20:08 PM	50636
Surr: Toluene-d8	97.1	70-130	%Rec	1	2/25/2020 6:20:08 PM	50636

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

- 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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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-018

Matrix: SOIL

**Collection Date:** 2/20/2020 9:35:00 AM **Received Date:** 2/22/2020 9:05:00 AM

Client Sample ID: SP-18 North Wall

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: JMT
Chloride	150	60	mg/Kg	20	2/28/2020 10:21:01 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/25/2020 6:49:21 PM	50636
Surr: BFB	100	70-130	%Rec	1	2/25/2020 6:49:21 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	BRM
Diesel Range Organics (DRO)	12	10	mg/Kg	1	2/26/2020 6:24:24 PM	50644
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/26/2020 6:24:24 PM	50644
Surr: DNOP	107	55.1-146	%Rec	1	2/26/2020 6:24:24 PM	50644
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst:	DJF
Benzene	ND	0.025	mg/Kg	1	2/25/2020 6:49:21 PM	50636
Toluene	ND	0.049	mg/Kg	1	2/25/2020 6:49:21 PM	50636
Ethylbenzene	ND	0.049	mg/Kg	1	2/25/2020 6:49:21 PM	50636
Xylenes, Total	ND	0.099	mg/Kg	1	2/25/2020 6:49:21 PM	50636
Surr: 1,2-Dichloroethane-d4	83.6	70-130	%Rec	1	2/25/2020 6:49:21 PM	50636
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/25/2020 6:49:21 PM	50636
Surr: Dibromofluoromethane	89.1	70-130	%Rec	1	2/25/2020 6:49:21 PM	50636
Surr: Toluene-d8	98.4	70-130	%Rec	1	2/25/2020 6:49:21 PM	50636

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

- 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 2002981

Date Reported: 3/2/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-019

Matrix: SOIL

**Collection Date:** 2/19/2020 9:40:00 AM **Received Date:** 2/22/2020 9:05:00 AM

Client Sample ID: SP-19 Bottom 1ft

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	100	60	mg/Kg	20	2/28/2020 10:33:22 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANG	<b>GE</b>				Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/25/2020 7:18:37 PM	50636
Surr: BFB	102	70-130	%Rec	1	2/25/2020 7:18:37 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/26/2020 6:48:20 PM	50644
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/26/2020 6:48:20 PM	50644
Surr: DNOP	124	55.1-146	%Rec	1	2/26/2020 6:48:20 PM	50644
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	2/25/2020 7:18:37 PM	50636
Toluene	ND	0.048	mg/Kg	1	2/25/2020 7:18:37 PM	50636
Ethylbenzene	ND	0.048	mg/Kg	1	2/25/2020 7:18:37 PM	50636
Xylenes, Total	ND	0.095	mg/Kg	1	2/25/2020 7:18:37 PM	50636
Surr: 1,2-Dichloroethane-d4	81.2	70-130	%Rec	1	2/25/2020 7:18:37 PM	50636
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/25/2020 7:18:37 PM	50636
Surr: Dibromofluoromethane	87.2	70-130	%Rec	1	2/25/2020 7:18:37 PM	50636
Surr: Toluene-d8	102	70-130	%Rec	1	2/25/2020 7:18:37 PM	50636

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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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-020

Matrix: SOIL

**Collection Date:** 2/19/2020 9:30:00 AM **Received Date:** 2/22/2020 9:05:00 AM

Client Sample ID: SP-20 South Wall

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	69	60	mg/Kg	20	2/28/2020 11:10:25 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/25/2020 7:47:50 PM	50636
Surr: BFB	101	70-130	%Rec	1	2/25/2020 7:47:50 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/26/2020 7:12:11 PM	50644
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/26/2020 7:12:11 PM	50644
Surr: DNOP	107	55.1-146	%Rec	1	2/26/2020 7:12:11 PM	50644
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	2/25/2020 7:47:50 PM	50636
Toluene	ND	0.050	mg/Kg	1	2/25/2020 7:47:50 PM	50636
Ethylbenzene	ND	0.050	mg/Kg	1	2/25/2020 7:47:50 PM	50636
Xylenes, Total	ND	0.10	mg/Kg	1	2/25/2020 7:47:50 PM	50636
Surr: 1,2-Dichloroethane-d4	83.8	70-130	%Rec	1	2/25/2020 7:47:50 PM	50636
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	2/25/2020 7:47:50 PM	50636
Surr: Dibromofluoromethane	90.7	70-130	%Rec	1	2/25/2020 7:47:50 PM	50636
Surr: Toluene-d8	98.2	70-130	%Rec	1	2/25/2020 7:47:50 PM	50636

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

- 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 2002981

Date Reported: 3/2/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-021

Matrix: SOIL

Client Sample ID: SP-21 Bottom 1ft
Collection Date: 2/19/2020 2:10:00 PM

Received Date: 2/22/2020 9:05:00 AM

Analyses	Result	RL	<b>Qual Units</b>	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	400	60	mg/Kg	20	2/28/2020 11:22:47 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/25/2020 8:17:00 PM	50636
Surr: BFB	98.6	70-130	%Rec	1	2/25/2020 8:17:00 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/26/2020 8:23:41 PM	50644
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/26/2020 8:23:41 PM	50644
Surr: DNOP	123	55.1-146	%Rec	1	2/26/2020 8:23:41 PM	50644
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	2/25/2020 8:17:00 PM	50636
Toluene	ND	0.049	mg/Kg	1	2/25/2020 8:17:00 PM	50636
Ethylbenzene	ND	0.049	mg/Kg	1	2/25/2020 8:17:00 PM	50636
Xylenes, Total	ND	0.098	mg/Kg	1	2/25/2020 8:17:00 PM	50636
Surr: 1,2-Dichloroethane-d4	80.2	70-130	%Rec	1	2/25/2020 8:17:00 PM	50636
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	2/25/2020 8:17:00 PM	50636
Surr: Dibromofluoromethane	88.0	70-130	%Rec	1	2/25/2020 8:17:00 PM	50636
Surr: Toluene-d8	96.5	70-130	%Rec	1	2/25/2020 8:17:00 PM	50636

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

- 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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Lab Order **2002981**Date Reported: **3/2/2020** 

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Spud 16 State 8H 2RP 5323

**Lab ID:** 2002981-022

981-022 **Matrix:** SOIL

**Collection Date:** 2/19/2020 2:25:00 PM **Received Date:** 2/22/2020 9:05:00 AM

Client Sample ID: SP-22 Bottom 1ft

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	340	60	mg/Kg	20	2/28/2020 11:35:08 PM	50769
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/25/2020 8:46:05 PM	50636
Surr: BFB	101	70-130	%Rec	1	2/25/2020 8:46:05 PM	50636
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/26/2020 8:47:19 PM	50644
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/26/2020 8:47:19 PM	50644
Surr: DNOP	98.4	55.1-146	%Rec	1	2/26/2020 8:47:19 PM	50644
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	2/25/2020 8:46:05 PM	50636
Toluene	ND	0.050	mg/Kg	1	2/25/2020 8:46:05 PM	50636
Ethylbenzene	ND	0.050	mg/Kg	1	2/25/2020 8:46:05 PM	50636
Xylenes, Total	ND	0.099	mg/Kg	1	2/25/2020 8:46:05 PM	50636
Surr: 1,2-Dichloroethane-d4	81.3	70-130	%Rec	1	2/25/2020 8:46:05 PM	50636
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	2/25/2020 8:46:05 PM	50636
Surr: Dibromofluoromethane	86.5	70-130	%Rec	1	2/25/2020 8:46:05 PM	50636
Surr: Toluene-d8	98.9	70-130	%Rec	1	2/25/2020 8:46:05 PM	50636

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

- 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.

WO#: **2002981** 

02-Mar-20

Client: Safety & Environmental Solutions
Project: Devon Spud 16 State 8H 2RP 5323

Sample ID: MB-50753 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 50753 RunNo: 66896

Prep Date: 2/28/2020 Analysis Date: 2/28/2020 SeqNo: 2301962 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-50753 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 50753 RunNo: 66896

Prep Date: 2/28/2020 Analysis Date: 2/28/2020 SeqNo: 2301963 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

Sample ID: MB-50769 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **50769** RunNo: **66896** 

Prep Date: 2/28/2020 Analysis Date: 2/28/2020 SeqNo: 2302003 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-50769 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 50769 RunNo: 66896

Prep Date: 2/28/2020 Analysis Date: 2/28/2020 SeqNo: 2302004 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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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#### **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2002981** 

02-Mar-20

Client: Safety & Environmental Solutions
Project: Devon Spud 16 State 8H 2RP 5323

Sample ID: LCS-50681 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 50681 RunNo: 66803

Prep Date: 2/26/2020 Analysis Date: 2/26/2020 SeqNo: 2297105 Units: %Rec

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

Surr: DNOP 4.5 5.000 90.3 55.1 146

Sample ID: MB-50681 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 50681 RunNo: 66803

Prep Date: 2/26/2020 Analysis Date: 2/26/2020 SegNo: 2297106 Units: %Rec

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

Surr: DNOP 9.9 10.00 99.1 55.1 146

 Sample ID:
 LCS-50643
 SampType:
 LCS
 TestCode:
 EPA Method 8015M/D:
 Diesel Range Organics

 Client ID:
 LCSS
 Batch ID:
 50643
 RunNo:
 66803

 Prep Date:
 2/25/2020
 Analysis Date:
 2/26/2020
 SeqNo:
 2297433
 Units:
 mg/Kg

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

 Diesel Range Organics (DRO)
 55
 10
 50.00
 0
 110
 70
 130

 Surr: DNOP
 5.3
 5.000
 106
 55.1
 146

Sample ID: MB-50643 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 50643 RunNo: 66803

Prep Date: 2/25/2020 Analysis Date: 2/26/2020 SeqNo: 2297434 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 12 10.00 120 55.1 146

Sample ID: 2002981-014AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SP-14 South Wall Batch ID: 50644 RunNo: 66811

Prep Date: 2/25/2020 Analysis Date: 2/26/2020 SeqNo: 2298144 Units: mg/Kg

%RPD SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 70 8.9 44.64 10.84 133 47.4 136

Surr: DNOP 5.5 4.464 10.64 133 47.4 136

Sample ID: 2002981-014AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SP-14 South Wall Batch ID: 50644 RunNo: 66811

Prep Date: 2/25/2020 Analysis Date: 2/26/2020 SeqNo: 2298145 Units: mg/Kg

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

Diesel Range Organics (DRO) 59 9.5 47.44 10.84 101 47.4 136 18.0 43.4

#### 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 Quantitative 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.

02-Mar-20

2002981

WO#:

Client: Safety & Environmental Solutions
Project: Devon Spud 16 State 8H 2RP 5323

Sample ID: 2002981-014AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SP-14 South Wall Batch ID: 50644 RunNo: 66811

Prep Date: 2/25/2020 Analysis Date: 2/26/2020 SeqNo: 2298145 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: DNOP 4.2 4.744 88.9 55.1 146 Λ Λ

Sample ID: LCS-50644 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 50644 RunNo: 66811

Prep Date: 2/25/2020 Analysis Date: 2/26/2020 SeqNo: 2298163 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 55 10 50.00 0 110 70 130

Surr: DNOP 4.9 5.000 98.3 55.1 146

Sample ID: MB-50644 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 50644 RunNo: 66811

Prep Date: 2/25/2020 Analysis Date: 2/26/2020 SeqNo: 2298164 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 115 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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#### **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2002981** 

02-Mar-20

Client: Safety & Environmental Solutions
Project: Devon Spud 16 State 8H 2RP 5323

Sample ID: mb-50631 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 50631 RunNo: 66878

Prep Date: 2/24/2020 Analysis Date: 2/27/2020 SeqNo: 2299731 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 820 1000 82.5 66.6 105

Sample ID: Ics-50631 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 50631 RunNo: 66878

Prep Date: 2/24/2020 Analysis Date: 2/27/2020 SeqNo: 2299732 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 87.6 80 120

Surr: BFB 940 1000 93.9 66.6 105

Sample ID: mb-50678 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 50678 RunNo: 66892

Prep Date: 2/25/2020 Analysis Date: 2/28/2020 SeqNo: 2301157 Units: %Rec

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

Surr: BFB 830 1000 83.4 66.6 105

Sample ID: Ics-50678 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 50678 RunNo: 66892

Prep Date: 2/25/2020 Analysis Date: 2/28/2020 SeqNo: 2301158 Units: %Rec

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

Surr: BFB 890 1000 88.9 66.6 105

#### 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.

WO#: **2002981** 

02-Mar-20

Client: Safety & Environmental Solutions
Project: Devon Spud 16 State 8H 2RP 5323

Sample ID: mb-50631	SampTyp	oe: MBL	<b>(</b>	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch II	D: <b>5063</b> 1	1	F	RunNo: 6	6878					
Prep Date: 2/24/2020	Analysis Date	te: <b>2/27/</b>	/2020	SeqNo: <b>2299780</b>			Units: mg/Kg				
Analyte	Result	PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.10									
Benzene	ND (	0.025									
Toluene	ND (	0.050									
Ethylbenzene	ND (	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	80	120				
Sample ID: LCS-50631	SampTyp	oe: LCS		Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: LCSS	Ratch II	D: 50631	1	F	SunNo. 6	6878					

Sample ID. LCS-50631	Samp	ype. LC	3	165	icoue. Er	lies				
Client ID: LCSS	Batc	h ID: <b>50</b>	631	F	RunNo: 60	5878				
Prep Date: 2/24/2020	Analysis D	Date: <b>2/</b>	27/2020	٤	SeqNo: 22	299781	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.80	0.10	1.000	0	80.1	20.7	175	<u> </u>		
Benzene	0.89	0.025	1.000	0	88.6	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.1	80	120			

Sample ID: mb-50678	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: <b>50</b>	678	F	RunNo: 60	6892				
Prep Date: 2/25/2020	Analysis D	ate: <b>2/</b>	28/2020	S	SeqNo: 2	301205	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	80	120			

Sample ID: LCS-50678	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: <b>50</b>	678	F	RunNo: 6	6892				
Prep Date: 2/25/2020	Analysis D	ate: 2	/28/2020	S	SeqNo: 2	301206	Units: %Red	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1-Bromofluorobenzene	0.05		1 000		0/1 8	80	120			

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.

WO#: **2002981** 

02-Mar-20

Client: Safety & Environmental Solutions
Project: Devon Spud 16 State 8H 2RP 5323

Sample ID: mb-50636	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	iles Short	List	·
Client ID: PBS	Batc	h ID: <b>50</b>	636	F	RunNo: 6	6802				
Prep Date: 2/24/2020	Analysis [	Date: <b>2/</b>	25/2020	5	SeqNo: 2	297048	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	0.40		0.5000		80.8	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		85.8	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	70	130			

Sample ID: Ics-50636	SampT	Type: <b>LC</b>	s	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: LCSS	Batcl	h ID: <b>50</b> 0	636	F	RunNo: 6	6802								
Prep Date: 2/24/2020	Analysis D	Date: <b>2/</b> 2	25/2020	\$	SeqNo: 2	297050	Units: mg/k	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.81	0.025	1.000	0	80.9	70	130							
Toluene	0.97	0.050	1.000	0	96.6	70	130							
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.7	70	130							
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130							
Surr: Dibromofluoromethane	0.44		0.5000		88.7	70	130							
Surr: Toluene-d8	0.50		0.5000		100	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

Page 28 of 29

#### **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2002981** 

02-Mar-20

Client: Safety & Environmental Solutions
Project: Devon Spud 16 State 8H 2RP 5323

Sample ID: mb-50636 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 50636 RunNo: 66802

Prep Date: 2/24/2020 Analysis Date: 2/25/2020 SeqNo: 2297075 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 510
 500.0
 101
 70
 130

Sample ID: Ics-50636 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 50636 RunNo: 66802

Prep Date: 2/24/2020 Analysis Date: 2/25/2020 SeqNo: 2297076 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 24 5.0 25.00 O 96.5 130 Surr: BFB 510 70 500.0 103 130

Sample ID: 2002981-014ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: SP-14 South Wall Batch ID: 50636 RunNo: 66802

Prep Date: 2/24/2020 Analysis Date: 2/25/2020 SeqNo: 2297078 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 25 4.9 24.73 0 103 70 130 Surr: BFB 510 494.6 103 70 130

Sample ID: 2002981-014amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: SP-14 South Wall Batch ID: 50636 RunNo: 66802

Prep Date: 2/24/2020 Analysis Date: 2/25/2020 SeqNo: 2297079 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 25 4.8 24.11 105 70 0.263 130 20 Surr: BFB 490 482.2 101 70 130 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

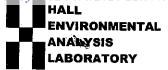
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 29 of 29



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name:	Safety Env Solutions	Work Order Num	ber: 2002981		RcptNo: 1	
Received By:	Yazmine Garduno	2/22/2020 9:05:00	AM	nfaznin léfnásti		
Completed By:	Yazmine Garduno	2/22/2020 11:13:3	з АМ	Afrymise lefterbute		
Reviewed By:	JR 2/24/20			ų v		
Chain of Cus	<u>tody</u>					
1. Is Chain of C	ustody sufficiently complete?	•	Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
3. Was an attem	npt made to cool the samples	6?	Yes 🗹	No 🗌	NA $\square$	
4. Were all samp	ples received at a temperatur	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	ple volume for indicated test	(s)?	Yes 🗹	No 🗌		
7. Are samples (	except VOA and ONG) prope	erly preserved?	Yes 🗹	No 🗌		
8. Was preserva	tive added to bottles?		Yes	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspace <1	/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹 🖊	
10. Were any san	nple containers received brol	ken?	Yes □	No 🗹 🗔		1
					# of preserved bottles checked	
	ork match bottle labels?		Yes 🗹		for pH:	
	ancies on chain of custody)			_		inless noted)
	correctly identified on Chain o	of Custody?	Yes 🔽	No 📙	Adjusted?/	
	t analyses were requested?		Yes 🗹	No 📙	- / VC	املاحام
	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 🗆	Checked by: 16	44914
Special Handl	ing (if applicable)				,	
	tified of all discrepancies wit	this order?	Yes 🗌	No 🗆	NA 🗹	
Person	Notified:	Date				
By Who	om:	Via:	eMail P	none  Fax	In Person	
Regardi	ing:					
Client Ir	nstructions:			w		
16. Additional rei	marks:					
17. <u>Cooler Infor</u>	<u>mation</u>					
Cooler No	- At the first of the State State, management is represented in	Seal Intact   Seal No	Seal Date	Signed By		
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2	4.2 Good					

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