

Incident ID	NSAD1327749512
District RP	
Facility ID	
Application ID	

## Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Dale Woodall Title: Environmental Professional  
 Signature: Dale Woodall Date: 11/1/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Brittany Hall Date: 2/10/2023  
 Printed Name: Brittany Hall Title: Environmental Specialist

**Devon Energy Production Company  
Mad Dog 15 Fed Com #1**

**Closure Report  
UL P, Section 15, T23S, R34E  
Lea County, New Mexico**

**1RP-10-13-2969**

**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
Wesley Mathews	Devon Energy	575-578-6195	Wesley.Mathews@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 Mad Dog 15 Fed Com #1. According to the C-141, an approximate 20 bbls of produced water was released. It was determined that the release was a result of hole in the water transfer line. Zero barrels of fluid were recovered. This site is situated in Lea County, Section 15, Township 23S, and Range 34E.

SESI personnel performed an assessment of the site in August 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 245' and 318' bgs.

## Characterization

In August of 2020, SESI personnel performed sampling to determine vertical extent of the release. SESI advanced auger holes within the leak area. The samples were properly packaged and preserved and sent to Hall Laboratories for analysis. The results of the testing are captured in the summary below:

Devon Energy Mad Dog 15 Fed Com #1 Soil Sample Results: Hall Environmental Laboratories 8/17/20								
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
AH-1 @ Surface	1300	ND	37	52	ND	ND	ND	ND
AH-1 @ 1'	140	ND	ND	ND	ND	ND	ND	ND
AH-2 @ Surface	1100	ND	ND	ND	ND	ND	ND	ND
AH-2 @ 1'	150	ND	ND	ND	ND	ND	ND	ND
AH-3 @ Surface	1100	ND	ND	ND	ND	ND	ND	ND
AH-3 @ 1'	190	ND	ND	ND	ND	ND	ND	ND
AH-4 @ Surface	1100	ND	ND	ND	ND	ND	ND	ND
AH-4 @ 1'	190	ND	ND	ND	ND	ND	ND	ND
AH-5 @ Surface	430	ND	ND	ND	ND	ND	ND	ND
AH-5 @ 1'	190	ND	15	ND	ND	ND	ND	ND
H-6 East	170	ND	13	ND	ND	ND	ND	ND
H-7 North	ND	ND	ND	ND	ND	ND	ND	ND

H-8 North	ND	ND	ND	ND	ND	ND	ND	ND
H-9 West	160	ND	15	ND	ND	ND	ND	ND
H-10 South	170	ND	22	ND	ND	ND	ND	ND
H-11 South	160	ND	14	ND	ND	ND	ND	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 ft as practicable. In May of 2020, contaminated material was removed by excavating the affected area. Confirmation samples were taken to ensure remediation was successful and that the vertical and horizontal extent of the release area had been established. 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 Mad Dog 15 Fed Com #1 Soil Sample Results: Hall Environmental Laboratories 11/23/20								
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
#1	320	ND	22	ND	ND	ND	ND	ND
#2	160	ND	38	74	ND	ND	ND	ND
#3	ND	ND	23	ND	ND	ND	ND	ND
#4	820	ND	160	72	ND	ND	ND	ND
#5	250	ND	72	ND	ND	ND	ND	ND
#6	78	ND	ND	ND	ND	ND	ND	ND

In this sampling event, there were 2 results that presented interesting findings. Samples from AH #2 and AH #4 required further investigation. AH #2 and #4 were both advanced fully to 1' and samples taken to confirm results.

Devon Energy Mad Dog 15 Fed Com #1 Soil Sample Results: Hall Environmental Laboratories 1/27/21								
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
AH-2 @ 1'	72	ND	ND	ND	ND	ND	ND	ND
AH-4 @ 1'	74	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**

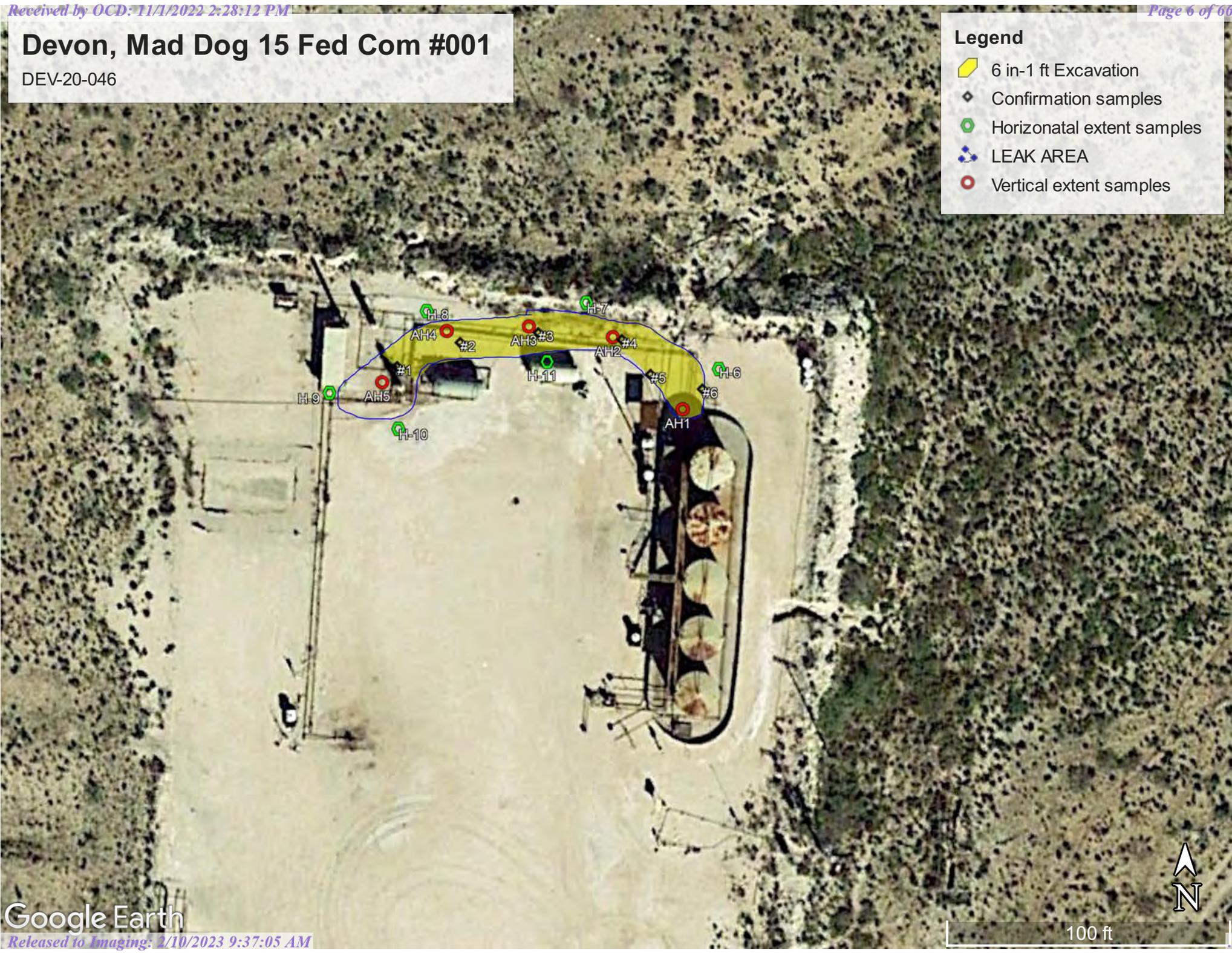
Map of Release with sample locations  
Photos of release and remediation  
NMOCD Oil and Gas Map  
BLM Cave Karst Map  
Laboratory Analysis  
C-141

# Devon, Mad Dog 15 Fed Com #001

DEV-20-046

**Legend**

-  6 in-1 ft Excavation
-  Confirmation samples
-  Horizontal extent samples
-  LEAK AREA
-  Vertical extent samples



# Devon Energy

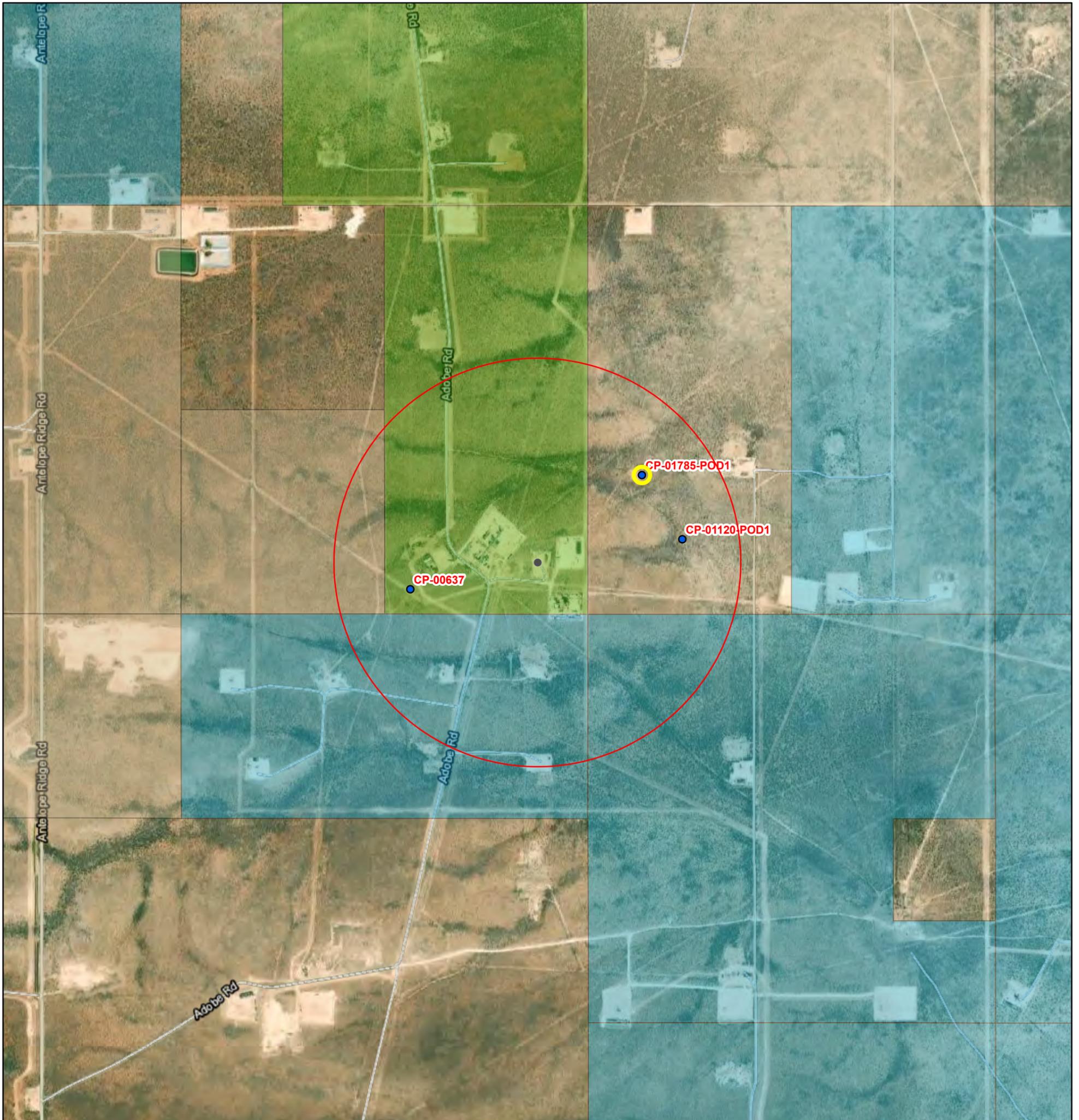
Mad Dog 15 Fed Com #1  
P-15-T23S-R34E  
Karst Map - Low

## Legend

-  6 in-1 ft Excavation
-  Feature 1
-  Feature 2
-  Feature 3
-  High
-  LEAK AREA
-  Low
-  Medium



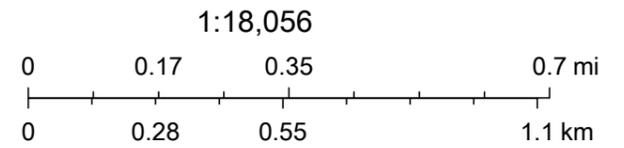
# OSE PUBLIC PRINT



8/30/2021, 11:22:48 AM

GIS WATERS PODs

- Active
- OSE District Boundary
- New Mexico State Trust Lands
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- ▤ SiteBoundaries



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

Revised June 1972

STATE ENGINEER OFFICE  
WELL RECORD

SANTA FE

475311

Section 1. GENERAL INFORMATION

(A) Owner of well Estoril Producing Corporation Owner's Well No. CP637  
Street or Post Office Address 11 th Floor Vaughn Building  
City and State Midland, Texas 79701

Well was drilled under Permit No. \_\_\_\_\_ and is located in the:

- a. SW ¼ SW ¼ se ¼ \_\_\_\_\_ ¼ of Section 15 Township 23-s Range 34E N.M.P.M.
- b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_
- c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in Lee County.
- d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in the \_\_\_\_\_ Grant.

(B) Drilling Contractor Raymond Wheeler Drilling Co. License No. WW-729  
Address 2419 West 14 th Odessa, Texas 79760

Drilling Began 7-6-81 Completed 7-9-81 Type tools Rotary Size of hole 8.75 in.

Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 430 ft.

Completed well is  shallow  artesian. Depth to water upon completion of well 430 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
400	425		water bearing sand	100

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7"	2	↙	0	430	430	na	400	430

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
					cemented top 10 ft.

Section 5. PLUGGING RECORD

Plugging Contractor \_\_\_\_\_  
Address \_\_\_\_\_  
Plugging Method \_\_\_\_\_  
Date Well Plugged \_\_\_\_\_  
Plugging approved by: \_\_\_\_\_

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received July 16, 1981

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

File No. CP-637 Use DTC Location No. 23.34.15.433112





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

STATE OF NEW MEXICO

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) <b>1</b>			OSE FILE NUMBER(S) <b>CP-01120</b>		
	WELL OWNER NAME(S) <b>Limestone Livestock LLC Bill Argell</b>			PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS <b>P.O. Box 189</b>			CITY <b>Lovington, N.M.</b>	STATE <b>N.M.</b>	ZIP <b>88260</b>
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE <b>32</b>	MINUTES <b>18</b>	SECONDS <b>0.1</b>	N * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
LONGITUDE <b>-103 26 43.5</b>						
FEDERAL POSITIONS: <b>SW 1/4 Sec. 14 Township 23S Range 34E</b>						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER <b>WD-1292</b>	NAME OF LICENSED DRILLER <b>Billy h. Bentle</b>			NAME OF WELL DRILLING COMPANY <b>Bentle Water Well Ser.</b>			
	DRILLING STARTED <b>1-9-13</b>	DRILLING ENDED <b>4-6-13</b>	DEPTH OF COMPLETED WELL (FT) <b>397</b>	BORE HOLE DEPTH (FT) <b>397</b>	DEPTH WATER FIRST ENCOUNTERED (FT) <b>318</b>			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input checked="" type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	<b>71</b>	<b>20</b>	<b>30</b>	<b>A53B</b>	<b>PE</b>	<b>13 1/2</b>	<b>.219</b>	<b>1/8"</b>
	<b>73</b>	<b>277</b>	<b>10 1/4</b>	<b>A53B</b>	<b>PE</b>	<b>6 1/8</b>	<b>.250</b>	<b>1/8"</b>
	<b>277</b>	<b>397</b>	<b>10 1/4</b>	<b>A53B</b>	<b>PE</b>	<b>6 1/8</b>	<b>.250</b>	<b>1/8"</b>

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	<b>0</b>	<b>20</b>	<b>30</b>	<b>Cement</b>	<b>94.5</b>	<b>Tremie</b>
	<b>43</b>	<b>397</b>	<b>10 1/4</b>	<b>Gravel (pea)</b>	<b>216</b>	<b>slow w/ mix</b>

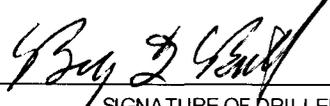
FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER <b>CP-1120</b>	POD NUMBER <b>1</b>	TRN NUMBER <b>515775</b>	PAGE 1 OF 2
LOCATION <b>STR</b>	<b>23S.34E.4.332</b>		

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Topsoil	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	1	10	9	Caliche	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	10	29	19	Sandy clay	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	29	33	4	Rock	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	33	180	147	Blow Sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	180	243	63	Sandy Clay	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	243	261	18	Sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	261	288	27	Brown <del>clay</del>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	288	293	5	Sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	293	318	25	Red Clay	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	318	345	27	Sand	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
	345	367	22	Red Clay	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	367	378	11	Yellow Sand	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
	378	386	8	Tan Clay	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
	386	392	6	Sand & Gravel	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
	392	397	5	Red Bed	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> AIRLIFT <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					50?	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	!!!!!!!!!!!!!!	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Billy L BENTLE DATE

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1120	POD NUMBER	1
LOCATION	SK	TRN NUMBER	515775
235.34E.14.332			PAGE 2 OF 2



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2019 JAN - 3 PM  
 STATE HOUSE

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP-1785-POD1		WELL TAG ID NO.		OSE FILE NO(S)			
	WELL OWNER NAME(S) Limestone Basin Properties Ranch, LLC				PHONE (OPTIONAL) 210-835-8057			
	WELL OWNER MAILING ADDRESS 3300 N. A Street, Bldg. 1, Ste. 220				CITY STATE ZIP Midland TX 79705			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 18	SECONDS 0.1	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	-103	26	43.5	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE/4SW/4SW/4 Sec. 14, T23S, R34E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1706		NAME OF LICENSED DRILLER Bryce Wallace			NAME OF WELL DRILLING COMPANY Elite Drillers Corporation		
	DRILLING STARTED 04/21/19	DRILLING ENDED 04/23/19	DEPTH OF COMPLETED WELL (FT) 488	BORE HOLE DEPTH (FT) 500	DEPTH WATER FIRST ENCOUNTERED (FT) 245			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 245		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	20	ASTM53 GRADE B	N/A	15.57	.25	
	0	250	14 3/4	SDR17 PVC	SPLINE	7.5	SDR17	
	250	488	14 3/4	SDR17 PVC SCREEN	SPLINE	7.5	SDR17	0.032
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	20	PORTLAND I/II CEMENT	19	POUR		
	0	25	14 3/4	PORTLAND I/II CEMENT	20	POUR		
	25	500	14 3/4	8/16 SILICA SAND	380	POUR		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. CP-1785	POD NO. 1	TRN NO. 642607
LOCATION 23S.34E.14.332	WELL TAG ID NO.	PAGE 1 OF 2



# Devon Energy – Mad Dog 15 Fed Com #1 Site Photos



# Devon Energy – Mad Dog 15 Fed Com #1 Site Photos



# Devon Energy – Mad Dog 15 Fed Com #1 Site Photos





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

August 26, 2020

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

RE: Devon Mad Dog 15 Fed Com 1 1RP-2969

OrderNo.: 2008987

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 16 sample(s) on 8/19/2020 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-1-Surface

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 9:15:00 AM

**Lab ID:** 2008987-001

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1300	60		mg/Kg	20	8/25/2020 1:06:58 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/20/2020 9:19:07 PM	54551
Surr: BFB	103	70-130		%Rec	1	8/20/2020 9:19:07 PM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	37	9.6		mg/Kg	1	8/21/2020 2:59:43 PM	54554
Motor Oil Range Organics (MRO)	52	48		mg/Kg	1	8/21/2020 2:59:43 PM	54554
Surr: DNOP	113	30.4-154		%Rec	1	8/21/2020 2:59:43 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/20/2020 9:19:07 PM	54551
Toluene	ND	0.050		mg/Kg	1	8/20/2020 9:19:07 PM	54551
Ethylbenzene	ND	0.050		mg/Kg	1	8/20/2020 9:19:07 PM	54551
Xylenes, Total	ND	0.10		mg/Kg	1	8/20/2020 9:19:07 PM	54551
Surr: 1,2-Dichloroethane-d4	99.3	70-130		%Rec	1	8/20/2020 9:19:07 PM	54551
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/20/2020 9:19:07 PM	54551
Surr: Dibromofluoromethane	107	70-130		%Rec	1	8/20/2020 9:19:07 PM	54551
Surr: Toluene-d8	98.6	70-130		%Rec	1	8/20/2020 9:19:07 PM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-1 1ft

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 9:25:00 AM

**Lab ID:** 2008987-002

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	140	61		mg/Kg	20	8/25/2020 1:44:11 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/20/2020 9:47:42 PM	54551
Surr: BFB	102	70-130		%Rec	1	8/20/2020 9:47:42 PM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/20/2020 1:10:59 PM	54554
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/20/2020 1:10:59 PM	54554
Surr: DNOP	118	30.4-154		%Rec	1	8/20/2020 1:10:59 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/20/2020 9:47:42 PM	54551
Toluene	ND	0.049		mg/Kg	1	8/20/2020 9:47:42 PM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/20/2020 9:47:42 PM	54551
Xylenes, Total	ND	0.099		mg/Kg	1	8/20/2020 9:47:42 PM	54551
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	8/20/2020 9:47:42 PM	54551
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/20/2020 9:47:42 PM	54551
Surr: Dibromofluoromethane	113	70-130		%Rec	1	8/20/2020 9:47:42 PM	54551
Surr: Toluene-d8	96.2	70-130		%Rec	1	8/20/2020 9:47:42 PM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-2 Surface

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 9:35:00 AM

**Lab ID:** 2008987-003

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1100	61		mg/Kg	20	8/25/2020 1:56:36 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/20/2020 10:16:13 PM	54551
Surr: BFB	104	70-130		%Rec	1	8/20/2020 10:16:13 PM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/20/2020 1:20:55 PM	54554
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/20/2020 1:20:55 PM	54554
Surr: DNOP	137	30.4-154		%Rec	1	8/20/2020 1:20:55 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/20/2020 10:16:13 PM	54551
Toluene	ND	0.050		mg/Kg	1	8/20/2020 10:16:13 PM	54551
Ethylbenzene	ND	0.050		mg/Kg	1	8/20/2020 10:16:13 PM	54551
Xylenes, Total	ND	0.099		mg/Kg	1	8/20/2020 10:16:13 PM	54551
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/20/2020 10:16:13 PM	54551
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	8/20/2020 10:16:13 PM	54551
Surr: Dibromofluoromethane	113	70-130		%Rec	1	8/20/2020 10:16:13 PM	54551
Surr: Toluene-d8	101	70-130		%Rec	1	8/20/2020 10:16:13 PM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-2 1ft

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 9:50:00 AM

**Lab ID:** 2008987-004

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	150	60		mg/Kg	20	8/25/2020 2:33:50 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/20/2020 10:44:44 PM	54551
Surr: BFB	102	70-130		%Rec	1	8/20/2020 10:44:44 PM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/20/2020 1:30:50 PM	54554
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/20/2020 1:30:50 PM	54554
Surr: DNOP	121	30.4-154		%Rec	1	8/20/2020 1:30:50 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/20/2020 10:44:44 PM	54551
Toluene	ND	0.049		mg/Kg	1	8/20/2020 10:44:44 PM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/20/2020 10:44:44 PM	54551
Xylenes, Total	ND	0.099		mg/Kg	1	8/20/2020 10:44:44 PM	54551
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	8/20/2020 10:44:44 PM	54551
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/20/2020 10:44:44 PM	54551
Surr: Dibromofluoromethane	114	70-130		%Rec	1	8/20/2020 10:44:44 PM	54551
Surr: Toluene-d8	97.3	70-130		%Rec	1	8/20/2020 10:44:44 PM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-3 Surface

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 10:05:00 AM

**Lab ID:** 2008987-005

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1100	60		mg/Kg	20	8/25/2020 2:46:14 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/20/2020 11:13:13 PM	54551
Surr: BFB	106	70-130		%Rec	1	8/20/2020 11:13:13 PM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/20/2020 1:40:45 PM	54554
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/20/2020 1:40:45 PM	54554
Surr: DNOP	89.4	30.4-154		%Rec	1	8/20/2020 1:40:45 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/20/2020 11:13:13 PM	54551
Toluene	ND	0.050		mg/Kg	1	8/20/2020 11:13:13 PM	54551
Ethylbenzene	ND	0.050		mg/Kg	1	8/20/2020 11:13:13 PM	54551
Xylenes, Total	ND	0.10		mg/Kg	1	8/20/2020 11:13:13 PM	54551
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/20/2020 11:13:13 PM	54551
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	8/20/2020 11:13:13 PM	54551
Surr: Dibromofluoromethane	110	70-130		%Rec	1	8/20/2020 11:13:13 PM	54551
Surr: Toluene-d8	101	70-130		%Rec	1	8/20/2020 11:13:13 PM	54551

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

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

## Analytical Report

Lab Order 2008987

Date Reported: 8/26/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-3 1ft

Project: Devon Mad Dog 15 Fed Com 1 1RP-296

Collection Date: 8/17/2020 10:25:00 AM

Lab ID: 2008987-006

Matrix: SOIL

Received Date: 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	190	60		mg/Kg	20	8/25/2020 2:58:39 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/20/2020 11:41:41 PM	54551
Surr: BFB	107	70-130		%Rec	1	8/20/2020 11:41:41 PM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/20/2020 1:50:41 PM	54554
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/20/2020 1:50:41 PM	54554
Surr: DNOP	135	30.4-154		%Rec	1	8/20/2020 1:50:41 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	8/20/2020 11:41:41 PM	54551
Toluene	ND	0.049		mg/Kg	1	8/20/2020 11:41:41 PM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/20/2020 11:41:41 PM	54551
Xylenes, Total	ND	0.099		mg/Kg	1	8/20/2020 11:41:41 PM	54551
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	8/20/2020 11:41:41 PM	54551
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/20/2020 11:41:41 PM	54551
Surr: Dibromofluoromethane	112	70-130		%Rec	1	8/20/2020 11:41:41 PM	54551
Surr: Toluene-d8	103	70-130		%Rec	1	8/20/2020 11:41:41 PM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-4 Surface

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 10:50:00 AM

**Lab ID:** 2008987-007

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1100	60		mg/Kg	20	8/25/2020 3:11:03 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 12:10:16 AM	54551
Surr: BFB	106	70-130		%Rec	1	8/21/2020 12:10:16 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/20/2020 2:00:35 PM	54554
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/20/2020 2:00:35 PM	54554
Surr: DNOP	118	30.4-154		%Rec	1	8/20/2020 2:00:35 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	8/21/2020 12:10:16 AM	54551
Toluene	ND	0.049		mg/Kg	1	8/21/2020 12:10:16 AM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 12:10:16 AM	54551
Xylenes, Total	ND	0.098		mg/Kg	1	8/21/2020 12:10:16 AM	54551
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/21/2020 12:10:16 AM	54551
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	8/21/2020 12:10:16 AM	54551
Surr: Dibromofluoromethane	112	70-130		%Rec	1	8/21/2020 12:10:16 AM	54551
Surr: Toluene-d8	104	70-130		%Rec	1	8/21/2020 12:10:16 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-4 1ft

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 11:20:00 AM

**Lab ID:** 2008987-008

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	190	60		mg/Kg	20	8/25/2020 3:23:28 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 2:32:51 AM	54551
Surr: BFB	103	70-130		%Rec	1	8/21/2020 2:32:51 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/20/2020 2:10:30 PM	54554
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/20/2020 2:10:30 PM	54554
Surr: DNOP	137	30.4-154		%Rec	1	8/20/2020 2:10:30 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 2:32:51 AM	54551
Toluene	ND	0.049		mg/Kg	1	8/21/2020 2:32:51 AM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 2:32:51 AM	54551
Xylenes, Total	ND	0.099		mg/Kg	1	8/21/2020 2:32:51 AM	54551
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	1	8/21/2020 2:32:51 AM	54551
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/21/2020 2:32:51 AM	54551
Surr: Dibromofluoromethane	109	70-130		%Rec	1	8/21/2020 2:32:51 AM	54551
Surr: Toluene-d8	101	70-130		%Rec	1	8/21/2020 2:32:51 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-5 Surface

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 11:45:00 AM

**Lab ID:** 2008987-009

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	430	60		mg/Kg	20	8/25/2020 3:35:52 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 3:01:19 AM	54551
Surr: BFB	102	70-130		%Rec	1	8/21/2020 3:01:19 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/20/2020 2:20:25 PM	54554
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/20/2020 2:20:25 PM	54554
Surr: DNOP	120	30.4-154		%Rec	1	8/20/2020 2:20:25 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 3:01:19 AM	54551
Toluene	ND	0.049		mg/Kg	1	8/21/2020 3:01:19 AM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 3:01:19 AM	54551
Xylenes, Total	ND	0.098		mg/Kg	1	8/21/2020 3:01:19 AM	54551
Surr: 1,2-Dichloroethane-d4	99.6	70-130		%Rec	1	8/21/2020 3:01:19 AM	54551
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	8/21/2020 3:01:19 AM	54551
Surr: Dibromofluoromethane	109	70-130		%Rec	1	8/21/2020 3:01:19 AM	54551
Surr: Toluene-d8	100	70-130		%Rec	1	8/21/2020 3:01:19 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-5 1ft

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 12:00:00 PM

**Lab ID:** 2008987-010

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	190	60		mg/Kg	20	8/25/2020 3:48:16 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/21/2020 3:29:49 AM	54551
Surr: BFB	104	70-130		%Rec	1	8/21/2020 3:29:49 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	15	9.7		mg/Kg	1	8/20/2020 2:30:18 PM	54554
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/20/2020 2:30:18 PM	54554
Surr: DNOP	122	30.4-154		%Rec	1	8/20/2020 2:30:18 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	8/21/2020 3:29:49 AM	54551
Toluene	ND	0.048		mg/Kg	1	8/21/2020 3:29:49 AM	54551
Ethylbenzene	ND	0.048		mg/Kg	1	8/21/2020 3:29:49 AM	54551
Xylenes, Total	ND	0.096		mg/Kg	1	8/21/2020 3:29:49 AM	54551
Surr: 1,2-Dichloroethane-d4	99.3	70-130		%Rec	1	8/21/2020 3:29:49 AM	54551
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/21/2020 3:29:49 AM	54551
Surr: Dibromofluoromethane	107	70-130		%Rec	1	8/21/2020 3:29:49 AM	54551
Surr: Toluene-d8	102	70-130		%Rec	1	8/21/2020 3:29:49 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-6 East

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 12:10:00 PM

**Lab ID:** 2008987-011

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	170	60		mg/Kg	20	8/25/2020 4:00:41 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 3:58:24 AM	54551
Surr: BFB	104	70-130		%Rec	1	8/21/2020 3:58:24 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	8/20/2020 2:40:12 PM	54554
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/20/2020 2:40:12 PM	54554
Surr: DNOP	81.1	30.4-154		%Rec	1	8/20/2020 2:40:12 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 3:58:24 AM	54551
Toluene	ND	0.049		mg/Kg	1	8/21/2020 3:58:24 AM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 3:58:24 AM	54551
Xylenes, Total	ND	0.098		mg/Kg	1	8/21/2020 3:58:24 AM	54551
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	8/21/2020 3:58:24 AM	54551
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/21/2020 3:58:24 AM	54551
Surr: Dibromofluoromethane	110	70-130		%Rec	1	8/21/2020 3:58:24 AM	54551
Surr: Toluene-d8	102	70-130		%Rec	1	8/21/2020 3:58:24 AM	54551

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

<b>Qualifiers:</b>	*	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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-7 North

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 12:35:00 PM

**Lab ID:** 2008987-012

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/25/2020 4:13:06 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 4:26:57 AM	54551
Surr: BFB	103	70-130		%Rec	1	8/21/2020 4:26:57 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/20/2020 2:50:05 PM	54554
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/20/2020 2:50:05 PM	54554
Surr: DNOP	122	30.4-154		%Rec	1	8/20/2020 2:50:05 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 4:26:57 AM	54551
Toluene	ND	0.049		mg/Kg	1	8/21/2020 4:26:57 AM	54551
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 4:26:57 AM	54551
Xylenes, Total	ND	0.098		mg/Kg	1	8/21/2020 4:26:57 AM	54551
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	8/21/2020 4:26:57 AM	54551
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	8/21/2020 4:26:57 AM	54551
Surr: Dibromofluoromethane	105	70-130		%Rec	1	8/21/2020 4:26:57 AM	54551
Surr: Toluene-d8	101	70-130		%Rec	1	8/21/2020 4:26:57 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-8 North

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 12:55:00 PM

**Lab ID:** 2008987-013

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	61		mg/Kg	20	8/25/2020 4:25:31 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/21/2020 4:55:28 AM	54551
Surr: BFB	103	70-130		%Rec	1	8/21/2020 4:55:28 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/21/2020 3:23:47 PM	54554
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2020 3:23:47 PM	54554
Surr: DNOP	139	30.4-154		%Rec	1	8/21/2020 3:23:47 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 4:55:28 AM	54551
Toluene	ND	0.050		mg/Kg	1	8/21/2020 4:55:28 AM	54551
Ethylbenzene	ND	0.050		mg/Kg	1	8/21/2020 4:55:28 AM	54551
Xylenes, Total	ND	0.10		mg/Kg	1	8/21/2020 4:55:28 AM	54551
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/21/2020 4:55:28 AM	54551
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/21/2020 4:55:28 AM	54551
Surr: Dibromofluoromethane	112	70-130		%Rec	1	8/21/2020 4:55:28 AM	54551
Surr: Toluene-d8	101	70-130		%Rec	1	8/21/2020 4:55:28 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-9 West

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 1:40:00 PM

**Lab ID:** 2008987-014

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	160	60		mg/Kg	20	8/25/2020 5:02:46 PM	54650
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/21/2020 5:24:11 AM	54551
Surr: BFB	102	70-130		%Rec	1	8/21/2020 5:24:11 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	15	9.7		mg/Kg	1	8/20/2020 3:09:50 PM	54554
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/20/2020 3:09:50 PM	54554
Surr: DNOP	97.4	30.4-154		%Rec	1	8/20/2020 3:09:50 PM	54554
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 5:24:11 AM	54551
Toluene	ND	0.050		mg/Kg	1	8/21/2020 5:24:11 AM	54551
Ethylbenzene	ND	0.050		mg/Kg	1	8/21/2020 5:24:11 AM	54551
Xylenes, Total	ND	0.099		mg/Kg	1	8/21/2020 5:24:11 AM	54551
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/21/2020 5:24:11 AM	54551
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/21/2020 5:24:11 AM	54551
Surr: Dibromofluoromethane	110	70-130		%Rec	1	8/21/2020 5:24:11 AM	54551
Surr: Toluene-d8	100	70-130		%Rec	1	8/21/2020 5:24:11 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-10 South

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 2:15:00 PM

**Lab ID:** 2008987-015

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	170	60		mg/Kg	20	8/25/2020 5:39:59 PM	54674
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/21/2020 5:52:49 AM	54551
Surr: BFB	106	70-130		%Rec	1	8/21/2020 5:52:49 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	22	9.8		mg/Kg	1	8/21/2020 10:27:02 AM	54583
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2020 10:27:02 AM	54583
Surr: DNOP	106	30.4-154		%Rec	1	8/21/2020 10:27:02 AM	54583
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 5:52:49 AM	54551
Toluene	ND	0.050		mg/Kg	1	8/21/2020 5:52:49 AM	54551
Ethylbenzene	ND	0.050		mg/Kg	1	8/21/2020 5:52:49 AM	54551
Xylenes, Total	ND	0.10		mg/Kg	1	8/21/2020 5:52:49 AM	54551
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	8/21/2020 5:52:49 AM	54551
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/21/2020 5:52:49 AM	54551
Surr: Dibromofluoromethane	105	70-130		%Rec	1	8/21/2020 5:52:49 AM	54551
Surr: Toluene-d8	102	70-130		%Rec	1	8/21/2020 5:52:49 AM	54551

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

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

**Analytical Report**

Lab Order **2008987**

Date Reported: **8/26/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-11 South

**Project:** Devon Mad Dog 15 Fed Com 1 1RP-296

**Collection Date:** 8/17/2020 2:35:00 PM

**Lab ID:** 2008987-016

**Matrix:** SOIL

**Received Date:** 8/19/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	160	60		mg/Kg	20	8/25/2020 6:17:13 PM	54674
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/21/2020 6:21:22 AM	54551
Surr: BFB	103	70-130		%Rec	1	8/21/2020 6:21:22 AM	54551
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	14	9.7		mg/Kg	1	8/21/2020 10:55:41 AM	54583
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/21/2020 10:55:41 AM	54583
Surr: DNOP	99.4	30.4-154		%Rec	1	8/21/2020 10:55:41 AM	54583
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	8/21/2020 6:21:22 AM	54551
Toluene	ND	0.050		mg/Kg	1	8/21/2020 6:21:22 AM	54551
Ethylbenzene	ND	0.050		mg/Kg	1	8/21/2020 6:21:22 AM	54551
Xylenes, Total	ND	0.10		mg/Kg	1	8/21/2020 6:21:22 AM	54551
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	8/21/2020 6:21:22 AM	54551
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/21/2020 6:21:22 AM	54551
Surr: Dibromofluoromethane	111	70-130		%Rec	1	8/21/2020 6:21:22 AM	54551
Surr: Toluene-d8	101	70-130		%Rec	1	8/21/2020 6:21:22 AM	54551

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2008987

26-Aug-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mad Dog 15 Fed Com 1 1RP-2969

Sample ID: <b>MB-54650</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54650</b>	RunNo: <b>71336</b>								
Prep Date: <b>8/25/2020</b>	Analysis Date: <b>8/25/2020</b>	SeqNo: <b>2490723</b>	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: <b>LCS-54650</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54650</b>	RunNo: <b>71336</b>								
Prep Date: <b>8/25/2020</b>	Analysis Date: <b>8/25/2020</b>	SeqNo: <b>2490724</b>	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	94.1	90	110			

Sample ID: <b>MB-54674</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54674</b>	RunNo: <b>71336</b>								
Prep Date: <b>8/25/2020</b>	Analysis Date: <b>8/25/2020</b>	SeqNo: <b>2490761</b>	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: <b>LCS-54674</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54674</b>	RunNo: <b>71336</b>								
Prep Date: <b>8/25/2020</b>	Analysis Date: <b>8/25/2020</b>	SeqNo: <b>2490762</b>	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	94.6	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 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2008987

26-Aug-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mad Dog 15 Fed Com 1 1RP-2969

Sample ID: <b>LCS-54554</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54554</b>	RunNo: <b>71215</b>								
Prep Date: <b>8/19/2020</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>2484367</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	115	70	130			
Surr: DNOP	6.1		5.000		122	30.4	154			

Sample ID: <b>MB-54554</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54554</b>	RunNo: <b>71215</b>								
Prep Date: <b>8/19/2020</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>2484369</b>			Units: <b>mg/Kg</b>					
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		125	30.4	154			

Sample ID: <b>2008987-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH-1-Surface</b>	Batch ID: <b>54554</b>	RunNo: <b>71237</b>								
Prep Date: <b>8/19/2020</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>2485456</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	67	9.5	47.62	36.90	64.0	47.4	136	24.3	43.4	
Surr: DNOP	4.9		4.762		103	30.4	154	0	0	

Sample ID: <b>2008987-015AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>H-10 South</b>	Batch ID: <b>54583</b>	RunNo: <b>71320</b>								
Prep Date: <b>8/20/2020</b>	Analysis Date: <b>8/21/2020</b>	SeqNo: <b>2489021</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.7	48.54	21.65	62.3	47.4	136			
Surr: DNOP	4.2		4.854		86.7	30.4	154			

Sample ID: <b>2008987-015AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>H-10 South</b>	Batch ID: <b>54583</b>	RunNo: <b>71320</b>								
Prep Date: <b>8/20/2020</b>	Analysis Date: <b>8/21/2020</b>	SeqNo: <b>2489022</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	8.7	43.55	21.65	45.5	47.4	136	22.4	43.4	S
Surr: DNOP	4.0		4.355		92.3	30.4	154	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 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2008987

26-Aug-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mad Dog 15 Fed Com 1 1RP-2969

Sample ID: <b>LCS-54576</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54576</b>	RunNo: <b>71320</b>								
Prep Date: <b>8/20/2020</b>	Analysis Date: <b>8/21/2020</b>	SeqNo: <b>2489064</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.6	30.4	154			

Sample ID: <b>LCS-54583</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54583</b>	RunNo: <b>71320</b>								
Prep Date: <b>8/20/2020</b>	Analysis Date: <b>8/21/2020</b>	SeqNo: <b>2489065</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	70	130			
Surr: DNOP	5.6		5.000		111	30.4	154			

Sample ID: <b>MB-54576</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54576</b>	RunNo: <b>71320</b>								
Prep Date: <b>8/20/2020</b>	Analysis Date: <b>8/21/2020</b>	SeqNo: <b>2489066</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.3	30.4	154			

Sample ID: <b>MB-54583</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54583</b>	RunNo: <b>71320</b>								
Prep Date: <b>8/20/2020</b>	Analysis Date: <b>8/21/2020</b>	SeqNo: <b>2489068</b>	Units: <b>mg/Kg</b>							
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		117	30.4	154			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2008987

26-Aug-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mad Dog 15 Fed Com 1 1RP-2969

Sample ID: <b>mb-54551</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54551</b>	RunNo: <b>71232</b>								
Prep Date: <b>8/19/2020</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>2485082</b>	Units: <b>mg/Kg</b>							
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	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: <b>ics-54551</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>54551</b>	RunNo: <b>71232</b>								
Prep Date: <b>8/19/2020</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>2485083</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.4	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		113	70	130			
Surr: Toluene-d8	0.50		0.5000		101	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 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2008987

26-Aug-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mad Dog 15 Fed Com 1 1RP-2969

Sample ID: <b>mb-54551</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54551</b>	RunNo: <b>71232</b>								
Prep Date: <b>8/19/2020</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>2485108</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	520		500.0		103	70	130			

Sample ID: <b>ics-54551</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54551</b>	RunNo: <b>71232</b>								
Prep Date: <b>8/19/2020</b>	Analysis Date: <b>8/20/2020</b>	SeqNo: <b>2485109</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.3	70	130			
Surr: BFB	530		500.0		106	70	130			

**Qualifiers:**

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



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

### Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**      Work Order Number: **2008987**      RcptNo: **1**

Received By: **Cheyenne Cason**      8/19/2020 10:00:00 AM

Completed By: **Juan Rojas**      8/19/2020 10:25:04 AM

Reviewed By: *Em 8/19/20*

*Juan Rojas*

**Chain of Custody**

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

**Log In**

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

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: *CME 8/19/20*

**Special Handling (if applicable)**

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

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.8	Good				







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

December 02, 2020

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

RE: Mad Dod 15 Federal Com 1

OrderNo.: 2011C49

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/25/2020 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 2011C49

Date Reported: 12/2/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** #1

**Project:** Mad Dod 15 Federal Com 1

**Collection Date:** 11/23/2020 8:20:00 AM

**Lab ID:** 2011C49-001

**Matrix:** SOIL

**Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	320	60		mg/Kg	20	11/28/2020 10:07:42 PM	56679
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/29/2020 7:18:25 AM	56672
Surr: BFB	105	70-130		%Rec	1	11/29/2020 7:18:25 AM	56672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	22	9.5		mg/Kg	1	11/30/2020 4:28:15 PM	56682
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2020 4:28:15 PM	56682
Surr: DNOP	95.2	30.4-154		%Rec	1	11/30/2020 4:28:15 PM	56682
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.023		mg/Kg	1	11/29/2020 7:18:25 AM	56672
Toluene	ND	0.046		mg/Kg	1	11/29/2020 7:18:25 AM	56672
Ethylbenzene	ND	0.046		mg/Kg	1	11/29/2020 7:18:25 AM	56672
Xylenes, Total	ND	0.093		mg/Kg	1	11/29/2020 7:18:25 AM	56672
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	1	11/29/2020 7:18:25 AM	56672
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/29/2020 7:18:25 AM	56672
Surr: Dibromofluoromethane	104	70-130		%Rec	1	11/29/2020 7:18:25 AM	56672
Surr: Toluene-d8	86.9	70-130		%Rec	1	11/29/2020 7:18:25 AM	56672

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

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

**Analytical Report**

Lab Order 2011C49

Date Reported: 12/2/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** #2

**Project:** Mad Dod 15 Federal Com 1

**Collection Date:** 11/23/2020 9:30:00 AM

**Lab ID:** 2011C49-002

**Matrix:** SOIL

**Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	160	59		mg/Kg	20	11/28/2020 10:44:56 PM	56679
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/29/2020 7:46:32 AM	56672
Surr: BFB	104	70-130		%Rec	1	11/29/2020 7:46:32 AM	56672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	38	9.4		mg/Kg	1	11/30/2020 4:37:42 PM	56682
Motor Oil Range Organics (MRO)	74	47		mg/Kg	1	11/30/2020 4:37:42 PM	56682
Surr: DNOP	102	30.4-154		%Rec	1	11/30/2020 4:37:42 PM	56682
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	11/29/2020 7:46:32 AM	56672
Toluene	ND	0.050		mg/Kg	1	11/29/2020 7:46:32 AM	56672
Ethylbenzene	ND	0.050		mg/Kg	1	11/29/2020 7:46:32 AM	56672
Xylenes, Total	ND	0.099		mg/Kg	1	11/29/2020 7:46:32 AM	56672
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%Rec	1	11/29/2020 7:46:32 AM	56672
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/29/2020 7:46:32 AM	56672
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/29/2020 7:46:32 AM	56672
Surr: Toluene-d8	86.3	70-130		%Rec	1	11/29/2020 7:46:32 AM	56672

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

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

**Analytical Report**

Lab Order 2011C49

Date Reported: 12/2/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** #3

**Project:** Mad Dod 15 Federal Com 1

**Collection Date:** 11/23/2020 10:43:00 AM

**Lab ID:** 2011C49-003

**Matrix:** SOIL

**Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	11/28/2020 10:57:21 PM	56679
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/29/2020 8:14:41 AM	56672
Surr: BFB	102	70-130		%Rec	1	11/29/2020 8:14:41 AM	56672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	23	9.5		mg/Kg	1	11/30/2020 5:15:39 PM	56683
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2020 5:15:39 PM	56683
Surr: DNOP	74.3	30.4-154		%Rec	1	11/30/2020 5:15:39 PM	56683
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	11/29/2020 8:14:41 AM	56672
Toluene	ND	0.048		mg/Kg	1	11/29/2020 8:14:41 AM	56672
Ethylbenzene	ND	0.048		mg/Kg	1	11/29/2020 8:14:41 AM	56672
Xylenes, Total	ND	0.097		mg/Kg	1	11/29/2020 8:14:41 AM	56672
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	1	11/29/2020 8:14:41 AM	56672
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	11/29/2020 8:14:41 AM	56672
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/29/2020 8:14:41 AM	56672
Surr: Toluene-d8	86.5	70-130		%Rec	1	11/29/2020 8:14:41 AM	56672

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

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

**Analytical Report**

Lab Order 2011C49

Date Reported: 12/2/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** #4

**Project:** Mad Dod 15 Federal Com 1

**Collection Date:** 11/23/2020 11:25:00 AM

**Lab ID:** 2011C49-004

**Matrix:** SOIL

**Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	820	60		mg/Kg	20	11/28/2020 11:34:35 PM	56679
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2020 8:42:50 AM	56672
Surr: BFB	109	70-130		%Rec	1	11/29/2020 8:42:50 AM	56672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	160	9.3		mg/Kg	1	11/30/2020 5:43:50 PM	56683
Motor Oil Range Organics (MRO)	72	46		mg/Kg	1	11/30/2020 5:43:50 PM	56683
Surr: DNOP	85.1	30.4-154		%Rec	1	11/30/2020 5:43:50 PM	56683
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	11/29/2020 8:42:50 AM	56672
Toluene	ND	0.047		mg/Kg	1	11/29/2020 8:42:50 AM	56672
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2020 8:42:50 AM	56672
Xylenes, Total	ND	0.094		mg/Kg	1	11/29/2020 8:42:50 AM	56672
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	1	11/29/2020 8:42:50 AM	56672
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/29/2020 8:42:50 AM	56672
Surr: Dibromofluoromethane	104	70-130		%Rec	1	11/29/2020 8:42:50 AM	56672
Surr: Toluene-d8	88.7	70-130		%Rec	1	11/29/2020 8:42:50 AM	56672

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

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

**Analytical Report**

Lab Order 2011C49

Date Reported: 12/2/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** #5

**Project:** Mad Dod 15 Federal Com 1

**Collection Date:** 11/23/2020 12:40:00 PM

**Lab ID:** 2011C49-005

**Matrix:** SOIL

**Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	250	59		mg/Kg	20	11/28/2020 11:46:59 PM	56679
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/29/2020 1:52:57 PM	56672
Surr: BFB	103	70-130		%Rec	1	11/29/2020 1:52:57 PM	56672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	72	9.0		mg/Kg	1	11/30/2020 5:53:15 PM	56683
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/30/2020 5:53:15 PM	56683
Surr: DNOP	80.2	30.4-154		%Rec	1	11/30/2020 5:53:15 PM	56683
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	11/29/2020 1:52:57 PM	56672
Toluene	ND	0.049		mg/Kg	1	11/29/2020 1:52:57 PM	56672
Ethylbenzene	ND	0.049		mg/Kg	1	11/29/2020 1:52:57 PM	56672
Xylenes, Total	ND	0.097		mg/Kg	1	11/29/2020 1:52:57 PM	56672
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	1	11/29/2020 1:52:57 PM	56672
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	11/29/2020 1:52:57 PM	56672
Surr: Dibromofluoromethane	106	70-130		%Rec	1	11/29/2020 1:52:57 PM	56672
Surr: Toluene-d8	88.3	70-130		%Rec	1	11/29/2020 1:52:57 PM	56672

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

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

**Analytical Report**

Lab Order 2011C49

Date Reported: 12/2/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** #6

**Project:** Mad Dod 15 Federal Com 1

**Collection Date:** 11/23/2020 2:00:00 PM

**Lab ID:** 2011C49-006

**Matrix:** SOIL

**Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	78	60		mg/Kg	20	11/28/2020 11:59:23 PM	56679
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/29/2020 2:21:30 PM	56672
Surr: BFB	103	70-130		%Rec	1	11/29/2020 2:21:30 PM	56672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/30/2020 6:02:39 PM	56683
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2020 6:02:39 PM	56683
Surr: DNOP	80.8	30.4-154		%Rec	1	11/30/2020 6:02:39 PM	56683
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	11/29/2020 2:21:30 PM	56672
Toluene	ND	0.049		mg/Kg	1	11/29/2020 2:21:30 PM	56672
Ethylbenzene	ND	0.049		mg/Kg	1	11/29/2020 2:21:30 PM	56672
Xylenes, Total	ND	0.098		mg/Kg	1	11/29/2020 2:21:30 PM	56672
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	11/29/2020 2:21:30 PM	56672
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/29/2020 2:21:30 PM	56672
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/29/2020 2:21:30 PM	56672
Surr: Toluene-d8	85.2	70-130		%Rec	1	11/29/2020 2:21:30 PM	56672

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2011C49

02-Dec-20

**Client:** Safety & Environmental Solutions

**Project:** Mad Dod 15 Federal Com 1

Sample ID: <b>MB-56679</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56679</b>	RunNo: <b>73657</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/28/2020</b>	SeqNo: <b>2596167</b>	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: <b>LCS-56679</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56679</b>	RunNo: <b>73657</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/28/2020</b>	SeqNo: <b>2596168</b>	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	90.7	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 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2011C49

02-Dec-20

**Client:** Safety & Environmental Solutions

**Project:** Mad Dod 15 Federal Com 1

Sample ID: <b>2011C49-003AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>#3</b>	Batch ID: <b>56683</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596867</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	9.8	48.88	22.81	75.8	15	184			
Surr: DNOP	4.2		4.888		85.2	30.4	154			

Sample ID: <b>2011C49-003AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>#3</b>	Batch ID: <b>56683</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596868</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.6	47.85	22.81	70.2	15	184	5.93	23.9	
Surr: DNOP	3.1		4.785		64.7	30.4	154	0	0	

Sample ID: <b>LCS-56680</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56680</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596910</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		107	30.4	154			

Sample ID: <b>LCS-56682</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56682</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596911</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	70	130			
Surr: DNOP	6.2		5.000		123	30.4	154			

Sample ID: <b>LCS-56683</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56683</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596912</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	70	130			
Surr: DNOP	5.3		5.000		106	30.4	154			

Sample ID: <b>MB-56680</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56680</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596914</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		98.9	30.4	154			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2011C49

02-Dec-20

**Client:** Safety & Environmental Solutions

**Project:** Mad Dod 15 Federal Com 1

Sample ID: <b>MB-56682</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56682</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596915</b>	Units: <b>mg/Kg</b>							
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	10		10.00		100	30.4	154			

Sample ID: <b>MB-56683</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56683</b>	RunNo: <b>73679</b>								
Prep Date: <b>11/28/2020</b>	Analysis Date: <b>11/30/2020</b>	SeqNo: <b>2596916</b>	Units: <b>mg/Kg</b>							
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	10		10.00		104	30.4	154			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2011C49

02-Dec-20

**Client:** Safety & Environmental Solutions

**Project:** Mad Dod 15 Federal Com 1

Sample ID: <b>mb-56672</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56672</b>	RunNo: <b>73639</b>								
Prep Date: <b>11/25/2020</b>	Analysis Date: <b>11/29/2020</b>	SeqNo: <b>2595326</b>	Units: <b>mg/Kg</b>							
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	0.51		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.45		0.5000		89.1	70	130			

Sample ID: <b>ics-56672</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>56672</b>	RunNo: <b>73639</b>								
Prep Date: <b>11/25/2020</b>	Analysis Date: <b>11/29/2020</b>	SeqNo: <b>2595327</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	123	80	120			S
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	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	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		113	70	130			
Surr: Toluene-d8	0.44		0.5000		88.7	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2011C49

02-Dec-20

**Client:** Safety & Environmental Solutions

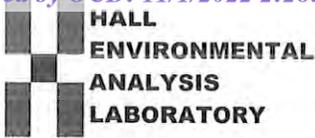
**Project:** Mad Dod 15 Federal Com 1

Sample ID: <b>mb-56672</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56672</b>	RunNo: <b>73639</b>								
Prep Date: <b>11/25/2020</b>	Analysis Date: <b>11/29/2020</b>	SeqNo: <b>2595366</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		100	70	130			

Sample ID: <b>ics-56672</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56672</b>	RunNo: <b>73639</b>								
Prep Date: <b>11/25/2020</b>	Analysis Date: <b>11/29/2020</b>	SeqNo: <b>2595367</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.3	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 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



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

# Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**

Work Order Number: **2011C49**

RcptNo: **1**

Received By: **Juan Rojas** 11/25/2020 8:00:00 AM *Juan Rojas*

Completed By: **Emily Mocho** 11/25/2020 9:18:55 AM

Reviewed By: *SPA 11.25.20*

**Chain of Custody**

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

**Log In**

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

# of preserved bottles checked for pH: *(crossed out)*  
 (<2 or >12 unless noted)  
 Adjusted? *(crossed out)*  
 Checked by: *SCG 11/25/20*

**Special Handling (if applicable)**

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			
2	1.9	Good	Yes			
3	2.1	Good	Yes			





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

February 04, 2021

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

RE: Devon Mad Dog 15 Fed Com 1

OrderNo.: 2101B06

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/30/2021 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2101B06**

Date Reported: 2/4/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-2 1ft

**Project:** Devon Mad Dog 15 Fed Com 1

**Collection Date:** 1/27/2021 10:15:00 AM

**Lab ID:** 2101B06-001

**Matrix:** SOIL

**Received Date:** 1/30/2021 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	72	60		mg/Kg	20	2/3/2021 10:48:08 PM	57892
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/1/2021 1:08:24 PM	57819
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/1/2021 1:08:24 PM	57819
Surr: DNOP	98.9	30.4-154		%Rec	1	2/1/2021 1:08:24 PM	57819
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/2/2021 4:30:49 AM	57813
Surr: BFB	93.4	75.3-105		%Rec	1	2/2/2021 4:30:49 AM	57813
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/2/2021 4:30:49 AM	57813
Toluene	ND	0.050		mg/Kg	1	2/2/2021 4:30:49 AM	57813
Ethylbenzene	ND	0.050		mg/Kg	1	2/2/2021 4:30:49 AM	57813
Xylenes, Total	ND	0.099		mg/Kg	1	2/2/2021 4:30:49 AM	57813
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	2/2/2021 4:30:49 AM	57813

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

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

**Analytical Report**

Lab Order **2101B06**

Date Reported: 2/4/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-4 1ft

**Project:** Devon Mad Dog 15 Fed Com 1

**Collection Date:** 1/27/2021 10:40:00 AM

**Lab ID:** 2101B06-002

**Matrix:** SOIL

**Received Date:** 1/30/2021 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	74	60		mg/Kg	20	2/3/2021 11:00:33 PM	57892
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/1/2021 1:32:21 PM	57819
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/1/2021 1:32:21 PM	57819
Surr: DNOP	87.9	30.4-154		%Rec	1	2/1/2021 1:32:21 PM	57819
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/2/2021 4:54:10 AM	57813
Surr: BFB	92.5	75.3-105		%Rec	1	2/2/2021 4:54:10 AM	57813
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/2/2021 4:54:10 AM	57813
Toluene	ND	0.050		mg/Kg	1	2/2/2021 4:54:10 AM	57813
Ethylbenzene	ND	0.050		mg/Kg	1	2/2/2021 4:54:10 AM	57813
Xylenes, Total	ND	0.10		mg/Kg	1	2/2/2021 4:54:10 AM	57813
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	2/2/2021 4:54:10 AM	57813

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101B06

04-Feb-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mad Dog 15 Fed Com 1

Sample ID: <b>MB-57892</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57892</b>	RunNo: <b>75031</b>								
Prep Date: <b>2/3/2021</b>	Analysis Date: <b>2/3/2021</b>	SeqNo: <b>2649254</b>	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: <b>LCS-57892</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57892</b>	RunNo: <b>75031</b>								
Prep Date: <b>2/3/2021</b>	Analysis Date: <b>2/3/2021</b>	SeqNo: <b>2649255</b>	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	96.3	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101B06

04-Feb-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mad Dog 15 Fed Com 1

Sample ID: <b>MB-57819</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57819</b>	RunNo: <b>74965</b>								
Prep Date: <b>2/1/2021</b>	Analysis Date: <b>2/1/2021</b>	SeqNo: <b>2646643</b>	Units: <b>mg/Kg</b>							
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	10		10.00		102	30.4	154			

Sample ID: <b>LCS-57819</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57819</b>	RunNo: <b>74965</b>								
Prep Date: <b>2/1/2021</b>	Analysis Date: <b>2/1/2021</b>	SeqNo: <b>2646800</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	141			
Surr: DNOP	4.8		5.000		95.3	30.4	154			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101B06

04-Feb-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mad Dog 15 Fed Com 1

Sample ID: <b>mb-57813</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57813</b>	RunNo: <b>74963</b>								
Prep Date: <b>1/30/2021</b>	Analysis Date: <b>2/1/2021</b>	SeqNo: <b>2647126</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.4	75.3	105			

Sample ID: <b>ics-57813</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57813</b>	RunNo: <b>74963</b>								
Prep Date: <b>1/30/2021</b>	Analysis Date: <b>2/1/2021</b>	SeqNo: <b>2647127</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	80	120			
Surr: BFB	1000		1000		103	75.3	105			

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101B06

04-Feb-21

**Client:** Safety & Environmental Solutions

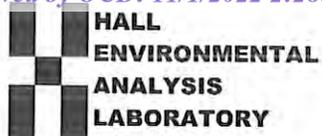
**Project:** Devon Mad Dog 15 Fed Com 1

Sample ID: <b>mb-57813</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57813</b>	RunNo: <b>74963</b>								
Prep Date: <b>1/30/2021</b>	Analysis Date: <b>2/1/2021</b>	SeqNo: <b>2647161</b>	Units: <b>mg/Kg</b>							
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: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: <b>LCS-57813</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57813</b>	RunNo: <b>74963</b>								
Prep Date: <b>1/30/2021</b>	Analysis Date: <b>2/1/2021</b>	SeqNo: <b>2647162</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.5	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	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 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



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

Sample Log-In Check List

Client Name: Safety & Environmental Solutions
Work Order Number: 2101B06
RcptNo: 1

Received By: Juan Rojas 1/30/2021 9:00:00 AM
Completed By: Juan Rojas 1/30/2021 9:13:51 AM
Reviewed By: [Signature] 01/30/2021

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: JR 1/30/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 2.1, Good, [ ], [ ], [ ], [ ]

**Chain-of-Custody Record**

Client: Safety & Environmental Solutions  
 Mailing Address: 703 E. Clifton Hobbs, N.M. 88240  
 Phone #: 975-397-0910

email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  AZ Compliance  NELAC  Other  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: 5 DAY  
 Standard  Rush  
 Project Name: DEVON  
MAID DOS 15 Fed Com 1  
 Project #: DEV-20-046

Project Manager: Allen, Bob  
 Sampler: Son Jerry  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 21-0-2.1 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
01/27/10	15	S	AH-2 1Fr	1	Jog	2101306
01/27/10	40	S	AH-4 1Fr	1	None	-001
						-002

Date: 01/28 Time: 1600 Relinquished by: Son Jerry  
 Date: 1/28/10 Time: 1400 Relinquished by: Allen



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<u>XX</u>
									<u>XX</u>

Remarks: Bill Devou Direct

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 155355

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 155355
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	None	2/10/2023