

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

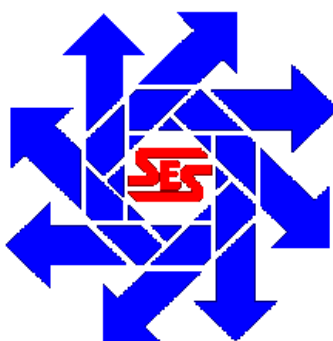
Printed Name: Brittany Hall Title: Environmental Specialist

**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 \$ 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

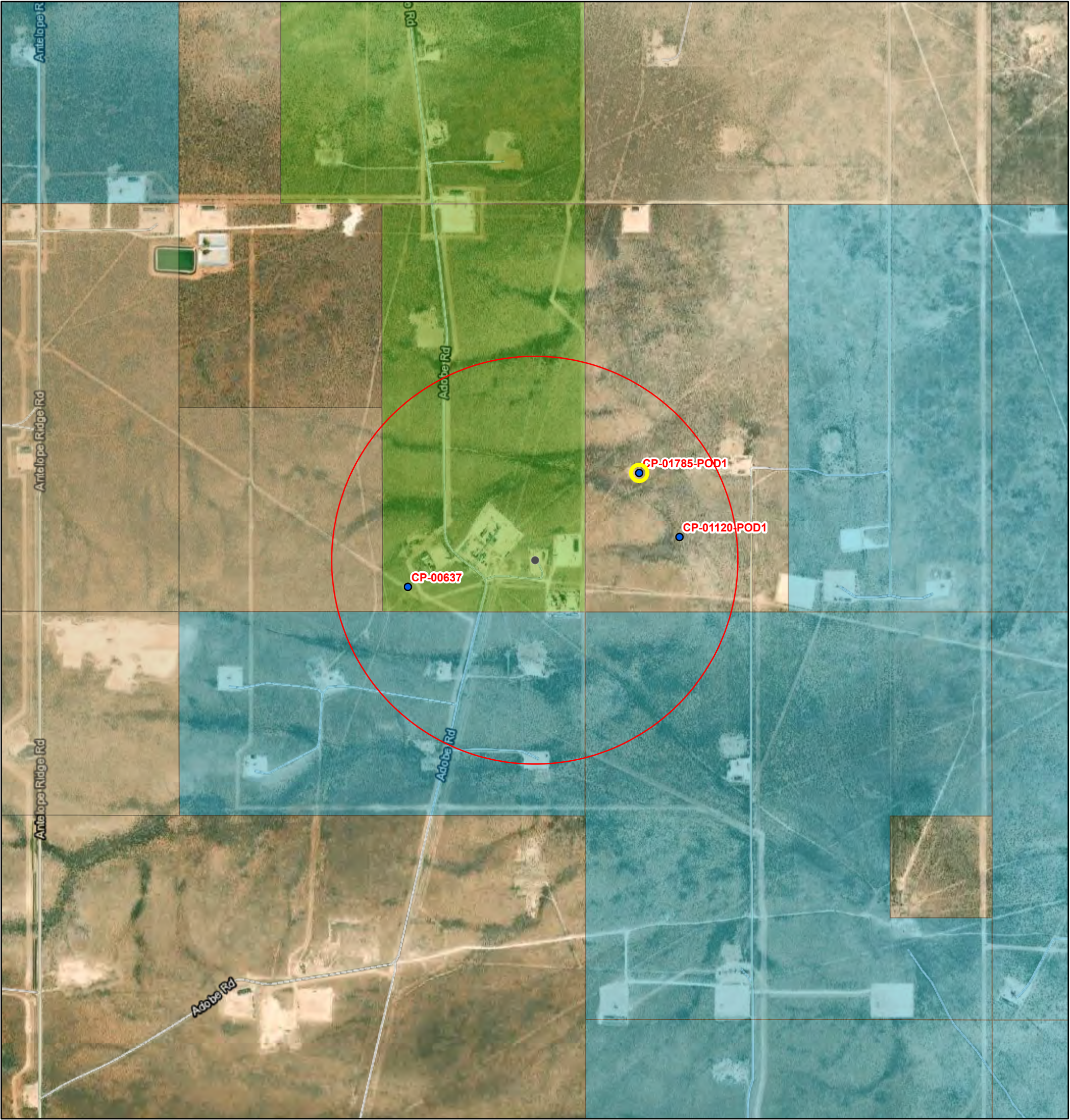
Mad Dog 15 Fed Com #1
P-15-T23S-R34E
Karst Map - Low

Legend

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



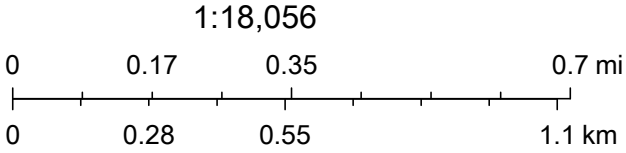
OSE PUBLIC PRINT



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 $\frac{1}{4}$ SW $\frac{1}{4}$ se $\frac{1}{4}$ 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 Lea 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

[illegible]

STATE ENGINEER
ROSWELL, NM
JUL 16 8 36 AM '81

Donald R. Wheeler
Driller

drilled, repaired or deepened. When this f



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE OF NEW MEXICO

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) 1			OSE FILE NUMBER(S) CP-01120			
	WELL OWNER NAME(S) Limestone Livestock LLC Bill Angell			PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO. Box 189			CITY STATE ZIP Lovington, N.M. 88260			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32 LONGITUDE -103	MINUTES 18 26	SECONDS 0.1 43.5	N W	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
EPTDS,CUPQPSHBUCHIXFMMFDBUPOLUPMUSFFUBEEFTTBCEIDPNNPOMBCEBLSLTLQMTTJTDUPOLUPXOTIKQISBOHFXTFSHVBUNBOF SW 1/4 Sec. 14 Township 23S Range 34E							
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1292		NAME OF LICENSED DRILLER Billy L. Bentle		NAME OF WELL DRILLING COMPANY Bentle Water Well Ser.		
	DRILLING STARTED 1-9-13	DRILLING ENDED 4-6-13	DEPTH OF COMPLETED WELL (FT) 397	BORE HOLE DEPTH (FT) 397	DEPTH WATER FIRST ENCOUNTERED (FT) 318		
	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) FROM TO		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)
	71 20		30	A53B	PE	13 1/2	.219
	73 277		10 1/4	A53B	PE	6 1/8	.250
	277 397		10 1/4	A53B	PE	6 1/8	.250
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	0 20		30	Cement	94.5	Tremie	
	43 397		10 1/4	Gravel (pea)	216	slow w/ mix + x	

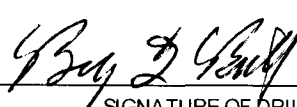
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER CP-1120	POD NUMBER 1	TRN NUMBER 515775
LOCATION 5+K	23S. 34E. 4. 332	PAGE 1 OF 2

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="radio"/> Y <input checked="" type="radio"/> N	
	1	10	9	Caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	10	29	19	Sandy Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	29	33	4	Rock	<input type="radio"/> Y <input checked="" type="radio"/> N	
	33	180	147	Blow Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	180	243	63	Sandy Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	243	261	18	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	261	288	27	Brown Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	288	293	5	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	293	318	25	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	318	345	27	Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
	345	367	22	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	367	378	11	Yellow Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
	378	386	8	Tan Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	386	392	6	Sand & Gravel	<input checked="" type="radio"/> Y <input type="radio"/> N	
	392	397	5	Red Bed	<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP					TOTAL ESTIMATED	
<input type="radio"/> AIR LIFT <input checked="" type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					WELL YIELD (gpm): 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:	
	<div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNED NAME </div> <div> 4-21-13 DATE </div> </div>	

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1120	POD NUMBER	1	TRN NUMBER	515775
LOCATION	SJK	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

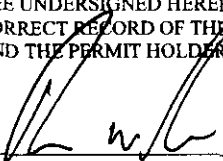
STATE
NO. 1051

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 Midland		STATE TX	
					ZIP 79705			
	WELL LOCATION (FROM GPS)		DEGREES LATITUDE 32	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	235.34E.14.332			WELL TAG ID NO.	PAGE 1 OF 2

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	30	30	SANDY CALICHE	Y ✓ N	
	30	50	20	TAN SANDSTONE	Y ✓ N	
	50	70	20	SANDY TAN CLAY	Y ✓ N	
	70	90	20	TAN SANDSTONE	Y ✓ N	
	90	150	60	TAN/RED SANDSTONE	Y ✓ N	
	150	190	40	TAN/YELLOW SANDSTONE	Y ✓ N	
	190	200	10	WHITE CLAY	Y ✓ N	
	200	280	80	TAN/WHITE SANDSTONE	✓ Y N	50.00
	280	370	90	TAN/BROWN SANDSTONE	✓ Y N	50.00
	370	390	20	WHITE SANDSTONE/WHITE CLAY	✓ Y N	50.00
	390	480	90	WHITE/LIGHT BROWN SANDSTONE	✓ Y N	50.00
	480	500	20	RED CLAY	✓ Y N	25.00
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 225.00	
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	<p>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:</p> <p> Bryce Wallace 05/21/2019</p> <p>SIGNATURE OF DRILLER / PRINT SIGNED NAME DATE</p>					

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 2 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

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 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 horizontal line.

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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1300	60		mg/Kg	20	8/25/2020 1:06:58 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	140	61		mg/Kg	20	8/25/2020 1:44:11 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1100	61		mg/Kg	20	8/25/2020 1:56:36 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	150	60		mg/Kg	20	8/25/2020 2:33:50 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1100	60		mg/Kg	20	8/25/2020 2:46:14 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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Analytical Report

Lab Order 2008987

Date Reported: 8/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & 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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	60		mg/Kg	20	8/25/2020 2:58:39 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							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
EPA METHOD 8260B: VOLATILES SHORT LIST							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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1100	60		mg/Kg	20	8/25/2020 3:11:03 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	60		mg/Kg	20	8/25/2020 3:23:28 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	430	60		mg/Kg	20	8/25/2020 3:35:52 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	60		mg/Kg	20	8/25/2020 3:48:16 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	170	60		mg/Kg	20	8/25/2020 4:00:41 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/25/2020 4:13:06 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	61		mg/Kg	20	8/25/2020 4:25:31 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	160	60		mg/Kg	20	8/25/2020 5:02:46 PM	54650
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	170	60		mg/Kg	20	8/25/2020 5:39:59 PM	54674
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	160	60		mg/Kg	20	8/25/2020 6:17:13 PM	54674
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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: MB-54650	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54650	RunNo: 71336								
Prep Date: 8/25/2020	Analysis Date: 8/25/2020	SeqNo: 2490723	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54650	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54650	RunNo: 71336								
Prep Date: 8/25/2020	Analysis Date: 8/25/2020	SeqNo: 2490724	Units: mg/Kg							
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: MB-54674	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54674	RunNo: 71336								
Prep Date: 8/25/2020	Analysis Date: 8/25/2020	SeqNo: 2490761	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54674	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54674	RunNo: 71336								
Prep Date: 8/25/2020	Analysis Date: 8/25/2020	SeqNo: 2490762	Units: mg/Kg							
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

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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: LCS-54554	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54554	RunNo: 71215								
Prep Date: 8/19/2020	Analysis Date: 8/20/2020	SeqNo: 2484367 Units: mg/Kg								
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: MB-54554	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54554	RunNo: 71215								
Prep Date: 8/19/2020	Analysis Date: 8/20/2020	SeqNo: 2484369 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		125	30.4	154			

Sample ID: 2008987-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: AH-1-Surface	Batch ID: 54554	RunNo: 71237								
Prep Date: 8/19/2020	Analysis Date: 8/20/2020	SeqNo: 2485456 Units: mg/Kg								
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: 2008987-015AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: H-10 South	Batch ID: 54583	RunNo: 71320								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2489021 Units: mg/Kg								
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: 2008987-015AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: H-10 South	Batch ID: 54583	RunNo: 71320								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2489022 Units: mg/Kg								
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: LCS-54576	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 54576			RunNo: 71320						
Prep Date: 8/20/2020	Analysis Date: 8/21/2020			SeqNo: 2489064	Units: %Rec					
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: LCS-54583	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 54583			RunNo: 71320						
Prep Date: 8/20/2020	Analysis Date: 8/21/2020			SeqNo: 2489065	Units: mg/Kg					
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: MB-54576	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 54576			RunNo: 71320						
Prep Date: 8/20/2020	Analysis Date: 8/21/2020			SeqNo: 2489066	Units: %Rec					
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: MB-54583	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 54583			RunNo: 71320						
Prep Date: 8/20/2020	Analysis Date: 8/21/2020			SeqNo: 2489068	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		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: mb-54551	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 54551	RunNo: 71232								
Prep Date: 8/19/2020	Analysis Date: 8/20/2020	SeqNo: 2485082	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		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: lcs-54551	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 54551	RunNo: 71232								
Prep Date: 8/19/2020	Analysis Date: 8/20/2020	SeqNo: 2485083	Units: mg/Kg							
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

Page 20 of 21

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

Sample ID: lcs-54551	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 54551	RunNo: 71232								
Prep Date: 8/19/2020	Analysis Date: 8/20/2020	SeqNo: 2485109	Units: mg/Kg							
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.
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: 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

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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
- # of preserved bottles checked for pH: (<2)

Adjusted? Adjusted?

Checked by: Checked by:

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				

Chain-of-Custody Record

Client: Silva + Environmental Solutions

Mailing Address: 703 E Clinton Ave NW 88250

Phone #: 575-397-0510

email or Fax#: _____

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: Devon

WED 09/15 Fed Am 1

RP-2969

Project #: Dev-20-046

Project Manager: Allen, Bob

Sampler: Sam from

On Ice: ☒ Yes ☐ No

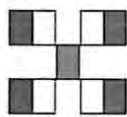
of Coolers: 1

Cooler Temp (including CF): 5.8 ± 0.35.8 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
08/17	0915	S	Att 1 Surface	1	Free	7005987
	0925	S	Att 1 LF	1		-001
	0935	S	Att 2 Surface	1		-002
	0950	S	Att 2 LF	1		-003
	1005	S	Att 3 Surface	1		-004
	1025	S	Att 3 LF	1		-005
	1050	S	Att 4 Surface	1		-006
	1120	S	Att 4 LF	1		-007
	1145	S	Att 5 Surface	1		-008
08/17	1200	S	Att 5 LF	1		-009

Date: 08/18/20 Time: 0800 Relinquished by: [Signature]

Date: 8/18/20 Time: 1900 Relinquished by: [Signature]



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)	X	TPH:8015D(GRO / DRO / MRO)	X	8081 Pesticides/8082 PCB's		EDB (Method 504.1)		PAHs by 8310 or 8270SIMS		RCRA 8 Metals		Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄		8260 (VOA)		8270 (Semi-VOA)		Total Coliform (Present/Absent)		<u>[Signature]</u>
----------------------------	---	----------------------------	---	----------------------------	--	--------------------	--	--------------------------	--	---------------	--	--	--	------------	--	-----------------	--	---------------------------------	--	--------------------

Remarks:

Bill Devon Direct



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

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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	320	60		mg/Kg	20	11/28/2020 10:07:42 PM	56679
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

Page 1 of 11

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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	160	59		mg/Kg	20	11/28/2020 10:44:56 PM	56679
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

Page 2 of 11

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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	11/28/2020 10:57:21 PM	56679
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	820	60		mg/Kg	20	11/28/2020 11:34:35 PM	56679
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	250	59		mg/Kg	20	11/28/2020 11:46:59 PM	56679
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
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.

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		

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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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	78	60		mg/Kg	20	11/28/2020 11:59:23 PM	56679
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
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.

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		

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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: MB-56679	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56679	RunNo: 73657								
Prep Date: 11/28/2020	Analysis Date: 11/28/2020	SeqNo: 2596167	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56679	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56679	RunNo: 73657								
Prep Date: 11/28/2020	Analysis Date: 11/28/2020	SeqNo: 2596168	Units: mg/Kg							
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

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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: 2011C49-003AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: #3	Batch ID: 56683	RunNo: 73679								
Prep Date: 11/28/2020	Analysis Date: 11/30/2020	SeqNo: 2596867	Units: mg/Kg							
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: 2011C49-003AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: #3	Batch ID: 56683	RunNo: 73679								
Prep Date: 11/28/2020	Analysis Date: 11/30/2020	SeqNo: 2596868	Units: mg/Kg							
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: LCS-56680	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56680	RunNo: 73679								
Prep Date: 11/28/2020	Analysis Date: 11/30/2020	SeqNo: 2596910	Units: %Rec							
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: LCS-56682	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56682	RunNo: 73679								
Prep Date: 11/28/2020	Analysis Date: 11/30/2020	SeqNo: 2596911	Units: mg/Kg							
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: LCS-56683	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56683	RunNo: 73679								
Prep Date: 11/28/2020	Analysis Date: 11/30/2020	SeqNo: 2596912	Units: mg/Kg							
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: MB-56680	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56680	RunNo: 73679								
Prep Date: 11/28/2020	Analysis Date: 11/30/2020	SeqNo: 2596914	Units: %Rec							
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: MB-56682	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 56682		RunNo: 73679							
Prep Date: 11/28/2020	Analysis Date: 11/30/2020		SeqNo: 2596915		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	30.4	154			

Sample ID: MB-56683	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 56683		RunNo: 73679							
Prep Date: 11/28/2020	Analysis Date: 11/30/2020		SeqNo: 2596916		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	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: mb-56672	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 56672	RunNo: 73639								
Prep Date: 11/25/2020	Analysis Date: 11/29/2020	SeqNo: 2595326	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		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: lcs-56672	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56672	RunNo: 73639								
Prep Date: 11/25/2020	Analysis Date: 11/29/2020	SeqNo: 2595327	Units: mg/Kg							
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: mb-56672	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 56672		RunNo: 73639							
Prep Date: 11/25/2020	Analysis Date: 11/29/2020		SeqNo: 2595366		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		100	70	130			

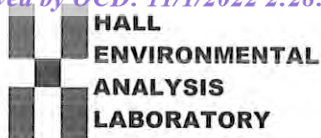
Sample ID: lcs-56672	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 56672		RunNo: 73639							
Prep Date: 11/25/2020	Analysis Date: 11/29/2020		SeqNo: 2595367		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit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

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **SGC 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 $^{\circ}\text{C}$	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

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: 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 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 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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	72	60		mg/Kg	20	2/3/2021 10:48:08 PM	57892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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		

Page 1 of 6

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
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	74	60		mg/Kg	20	2/3/2021 11:00:33 PM	57892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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		

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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: MB-57892	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 57892	RunNo: 75031
Prep Date: 2/3/2021	Analysis Date: 2/3/2021	SeqNo: 2649254 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-57892	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 57892	RunNo: 75031
Prep Date: 2/3/2021	Analysis Date: 2/3/2021	SeqNo: 2649255 Units: mg/Kg
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: MB-57819	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57819	RunNo: 74965								
Prep Date: 2/1/2021	Analysis Date: 2/1/2021	SeqNo: 2646643 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	30.4	154			

Sample ID: LCS-57819	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57819	RunNo: 74965								
Prep Date: 2/1/2021	Analysis Date: 2/1/2021	SeqNo: 2646800 Units: mg/Kg								
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: mb-57813	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 57813	RunNo: 74963								
Prep Date: 1/30/2021	Analysis Date: 2/1/2021	SeqNo: 2647126	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.4	75.3	105			

Sample ID: lcs-57813	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 57813	RunNo: 74963								
Prep Date: 1/30/2021	Analysis Date: 2/1/2021	SeqNo: 2647127	Units: mg/Kg							
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.
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

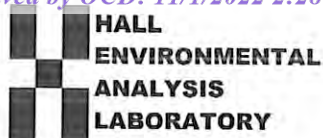
Sample ID: mb-57813	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 57813	RunNo: 74963								
Prep Date: 1/30/2021	Analysis Date: 2/1/2021	SeqNo: 2647161	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: LCS-57813	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 57813	RunNo: 74963								
Prep Date: 1/30/2021	Analysis Date: 2/1/2021	SeqNo: 2647162	Units: mg/Kg							
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
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B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Juan Rojas

Completed By: **Juan Rojas**

1/30/2021 9:13:51 AM

Juan Rojas

Reviewed By: *M 01/30/2021*

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *JR 1/30/21*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				

Chain-of-Custody Record

Client: Safety & Environmental

Solutions

Mailing Address: 703 E. Clinton

Hobbs N.M. 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Date Time Matrix Sample Name

01/27/10 15 S AH-2 LF

01/27/10 15 S AH-4 LF

Turn-Around Time: 5 DAY

☒ Standard ☐ Rush

Project Name: Devon

MAID DOS 15 Feb 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)

Container Type and #

1

Preservative Type

Ice

HEAL No.

2101306

-001

-002

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, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

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BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

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8270 (Semi-VOA)

Total Coliform (Present/Absent)

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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