

# Devon Energy

Snapping 2 State 6H

Closure Report

Section 2, Township 26S, Range 21E  
Eddy County, New Mexico

30-015-39162

2RP-2686 – nAB1435732150

March 10, 2025



Prepared for:  
Devon Energy Production Company  
205 E Bender Blvd  
Hobbs, NM 88240

By:  
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## Company Contacts

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## Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy Corporation to assess and remediate a release on the Snapping 2 State 6H location. NMOCD Incident # nAB1435732150 Permit # 2RP-2686.

According to the C-141, received 12/18/2014 for the release that occurred on 11/24/14, the cause of the release is **listed as, "The pop off valve on the 3-phase separator released 30bbls of fluid on location due to a malfunction of the motor valve on the flare line. The fluid could not be dumped because the supply gas to the dump valve was frozen. The well was immediately shut in and the motor valve has been repaired."** The area affected is listed as, "On the north central side of the location 30 bbls of oil was released affecting an area approximately 195'x165'. The spill remained on location. 25 bbls were recovered via vacuum truck. The affected equipment has been pressure washed."

SESI personnel performed an assessment of the site in November of 2019 based on generator knowledge of the leak location and an approved work plan provided by Devon to SESI that had been previously submitted and approved by Talon. It was unsure at the time if the work plan had ever been executed because Talon failed to provide that information to Devon. SESI personnel mapped the leaks and later performed delineation on both leaks to establish vertical and horizontal extent.

## Surface and Ground Water

According to the NMOCD Oil and Gas map contained in this report, there is no surface water within 2,000 feet of this release. According to the records of the New Mexico Office of the State engineer, the average depth to groundwater **in the area is between 300' and 375', as demonstrated by two wells within a half mile of the release that are less than 25 years old.** The well files are included in this report and identified by NMOSE as C03639 and C04256. On June 15, 2022, a temporary well with the identifier POD 1 (TW-1)/OSE File Number C-4637 was drilled 55 feet below the surface of the ground. No groundwater was discovered. The POD is located approximately 300 feet west of the Snapping 2 State 6 and 7 on the adjacent site.

## Characterization

The target cleanup levels are determined using the NMAC 19.15.29 revisions dated July 24, 2018. According to the most up to date New Mexico Land Office the Snapping 2 State 6H is in a Medium Karst Area.

Note: Despite the groundwater evidence mentioned in section above, on September 21, 2022 NMOCD indicated the **values for determination of horizontal impact are derived by either approved "background" values or non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg, and a TPH concentration of no more than 100 mg/kg, a total BTEX concentration of no more than 50 mg/kg, and a benzene concentration of no more than 10 mg/kg. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.**

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

\*Or other test methods approved by the division.

\*\*Numerical limits or natural background level, whichever is greater.

\*\*\*This applies to releases of produced water or other fluids, which may contain chloride.

[19.15.29.12 NMAC - N, 8/14/2018]

Work Performed NAB1435732150, 2RP-2686:

In November of 2019, SESI performed an investigative delineation of this release. Seven samples were performed at both the surface and one foot. The samples were properly packaged and preserved and sent to Cardinal Laboratories for analyzation. The results of the testing are captured in the summary below:

Devon Energy Snapping 2 State 6 & 7 Battery Sample Collection Date: 11/15/2019 Cardinal Environmental Laboratories (H903893)									
Sample ID	Chloride (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)	Extend GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)
SP-1 @ SURFACE	256	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-1 @ 1'	128	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-2 @ SURFACE	720	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-2 @ 1'	208	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-3 @ SURFACE	256	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-3 @ 1'	208	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-4 @ SURFACE	208	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-4 @ 1'	128	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-5 @ SURFACE	256	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-5 @ 1'	112	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-6 @ SURFACE	208	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-6 @ 1'	128	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-7 @ SURFACE	272	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300
SP-7 @ 1'	128	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300

Although these samples proved the work had been performed and the release area samples results were below Table 1 target levels with the provided groundwater level in the area being greater than 55-foot BGS, Devon personnel requested SESI take samples at the same locations in which Talon had sampled in their approved work plan (Attached

to this report). Therefore, in March of 2020, SESI returned to this release site and advanced four auger holes in the same locations as the Talon samples demonstrated in the approved work plan. The samples were properly packaged and transported to Hall Environmental labs to be tested. The results of this sampling event are captured in the table below:

Devon Energy Snapping 2 State 6 & 7 Battery Sample Collection Date: 03/06/2020 Hall Environmental Laboratories (2003405)								
Sample ID	Chloride (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)
AH1 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND
AH1 @ 1'	140	ND	ND	ND	ND	ND	ND	ND
AH2 @ SURFACE	8800	ND	ND	ND	ND	ND	ND	ND
AH2 @ 1'	730	ND	ND	ND	ND	ND	ND	ND
AH3 @ SURFACE	4200	83	100	ND	ND	ND	ND	ND
AH3 @ 1'	140	ND	ND	ND	ND	ND	ND	ND
AH4 @ SURFACE	ND	390	770	ND	ND	ND	ND	ND
AH4 @ 1'	820	ND	ND	ND	ND	ND	ND	ND

Upon review of these sample results, SESI determined vertical extent had been achieved due to groundwater being established at over 55' bgs; however, it was during this time frame that NMOCD notified SESI that all releases would also require horizontal extent. Consequently, in June of 2020, SESI returned to the release site for a final sampling event to establish horizontal extent. Due to the large release area, SESI obtained fourteen surface/horizontal samples. The samples were packaged, preserved, and sent to Hall Environmental lab to be analyzed. The results of those samples are summarized in the table below:

Devon Energy Snapping 2 State 6 & 7 Battery Sample Collection Date: 06/03/2020 Hall Environmental Laboratories (2006313)								
Sample ID	Chloride (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)
AH5-H SURFACE WEST	380	14	ND	ND	ND	ND	ND	ND
AH6-H SURFACE WEST	1200	ND	ND	ND	ND	ND	ND	ND
AH7-H SURFACE WEST	1200	ND	ND	ND	ND	ND	ND	ND
AH8-H SURFACE NORTH	430	ND	ND	ND	ND	ND	ND	ND
AH9-H SURFACE NORTH	2000	ND	ND	ND	ND	ND	ND	ND
AH10-H SURFACE EAST	1300	ND	ND	ND	ND	ND	ND	ND
AH11-H SURFACE EAST	1300	ND	ND	ND	ND	ND	ND	ND
AH12-H SURFACE SOUTH	420	12	ND	ND	ND	ND	ND	ND
AH13-H SURFACE WEST	410	14	ND	ND	ND	ND	ND	ND
AH14-H SURFACE EAST	460	ND	ND	ND	ND	ND	ND	ND
AH15-H SURFACE EAST	450	ND	ND	ND	ND	ND	ND	ND
AH16-H SURFACE SOUTH	410	14	ND	ND	ND	ND	ND	ND
AH17-H SURFACE WEST	450	ND	ND	ND	ND	ND	ND	ND
AH18-H SURFACE WEST	400	13	ND	ND	ND	ND	ND	ND

Sample results indicated that horizontal extent had been achieved due to groundwater being established at over 55' bgs; however, despite the groundwater evidence mentioned in section above, on September 21, 2022, NMOCD indicated the values for determination of horizontal impact are derived by either approved "background" values or non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg, a TPH concentration of no more than 100 mg/kg, a total BTEX concentration of no more than 50 mg/kg, and a benzene concentration of no more than 10 mg/kg. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent



of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved **"background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires** additional samples for horizontal delineation.

On August 10, 2023, SESI obtained surface/horizontal samples on the off-pad area where the release was determined to leave the pad. Samples were packaged, preserved, and transported to Hall Environmental lab to be analyzed. The results of those samples are summarized in the table below:

Devon Energy Snapping 2 State 6 & 7 Battery Sample Collection Date: 08/10/2023 Hall Environmental Laboratories (2308797)								
Sample ID	Chloride (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Motor Oil Range Organics (MRO) (mg/Kg)	Gasoline Range Organics (GRO) (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)
SP-10 Surface	ND	23	ND	ND	ND	ND	ND	ND
SP-10 1Ft	ND	ND	ND	ND	ND	ND	ND	ND
SP-11 Surface	820	30	55	ND	ND	ND	ND	ND
SP-11 1Ft	96	ND	ND	ND	ND	ND	ND	ND
SP-12 Surface	ND	ND	ND	ND	ND	ND	ND	ND
SP-12 1Ft	170	ND	ND	ND	ND	ND	ND	ND
SP-13 Surface	ND	ND	ND	ND	ND	ND	ND	ND
SP-13 1Ft	ND	ND	ND	ND	ND	ND	ND	ND
SP-14 Surface	ND	ND	ND	ND	ND	ND	ND	ND
SP-14 1Ft	ND	ND	ND	ND	ND	ND	ND	ND
SP-15 Surface	ND	ND	ND	ND	ND	ND	ND	ND
SP-15 1Ft	ND	ND	ND	ND	ND	ND	ND	ND

Sample results indicated SP-11 at surface exceeded the regulatory limit of 600 ppm for chloride and after removal of 1 foot of contaminated soil, Sp-11-1 Ft confirmed regulatory limit had been met.

On October 10, 2023, SESI was onsite for a sampling event to determine horizontal extent on the off-pad area of the release. The samples were properly packaged, preserved, and sent to Hall Environmental labs to be evaluated. The results of this sampling event are captured in the table below:

Devon Energy Snapping 2 State 6 & 7 Battery Sample Collection Date: 10/10/2023 Hall Environmental Laboratories (2310583)								
Sample ID	Chloride (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Motor Oil Range Organics (MRO) (mg/Kg)	Gasoline Range Organics (GRO) (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)
SP-16	ND	16	ND	ND	ND	ND	ND	ND
CS 17	89	13	ND	ND	ND	ND	ND	ND
SP-18	ND	15	ND	ND	ND	ND	ND	ND
SP-19	ND	15	ND	ND	ND	ND	ND	ND
SP-20	ND	ND	ND	ND	ND	ND	ND	ND
SP-21	ND	13	ND	ND	ND	ND	ND	ND
SP-22	390	91	180	ND	ND	ND	ND	ND
SP-23	ND	29	86	ND	ND	ND	ND	ND
SP-24	ND	21	69	ND	ND	ND	ND	ND

The result of the sampling event on 10/10/23 indicates samples SP-16 through SP-21 and SP-24 are all under the off pad regulatory limits, however, samples SP-22, and SP-23 all exceed the regulatory limits. Samples SP-22 and SP-23 are located under the north location fence line and immediately adjacent to existing flowlines. The samples only exceed the regulatory limits by a small amount and the contamination will, most certainly, be removed during reclamation of the pad area upon abandonment of the facility.

On May 14, 2024, a deferral report was submitted to NMOCD for this incident and was denied on June 3, 2024. NMOCD stated that the reason for rejection was that Horizontal delineation is still incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved **"background" values or Table I Closure Criteria for releases** where groundwater is at a depth of 50 feet or less. Horizontal delineation will need to take place west of AH6 and AH7, east of AH10, and north of SP-10/Surface Sample 3. Horizontal delineation points will need to meet or be below the most stringent closure criteria of Table 1. Submit a complete report though the OCD Permitting website by 10/6/2023" as a reason of rejection. The contamination at SP-10 has not been addressed and the delineation near AH-6, AH-7, and AH-10 has not been completed. OCD requested a map be sent in via email for nAB1435732150 that included sampling points SP-10 through SP-16, CS-17, and SP-18 through SP-24. The map provided by the operator/the operator's consultant did not include SP-8, SP-9, and SP-23 received by OCD via email on 5/21/2024. SP-22 and SP-23 are requested for deferral, but SP-23 is not included on the map. Pursuant to 19.15.29.12 C.(2) NMAC, If contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or groundwater. The report states "Sampled SP-22 and SP-23 are located under the north location fence line and immediately adjacent to existing flowlines." These areas do not qualify for a deferral as the remediation will not cause a major facility deconstruction.

On June 18, 2024, notification was sent to the NMOCD for a confirmation sampling event and approved. On June 25, 2024, SESI was unable to perform confirmation sampling due to field sample results not being below target level. NMOCD representative was not present for sampling event

August 5, 2024, notification was sent to the NMOCD for a confirmation sampling event and approved. On August 08, 2024, **additional excavation was performed to a depth of 6" BGS in the areas of AH-6-H, AH-7-H, AH-9-H, AH-10-H, AH-11-H.** Five confirmation samples were taken in the areas where Horizontal Extent sample results were still above target level (AH-6-H, AH-7-H, AH-9-H, AH-10-H, AH-11-H). NMOCD representative was present for sampling. The samples were properly packaged, preserved, and transported to Cardinal Laboratories to be evaluated. The results of this sampling event are captured in the table below:

Devon Energy Snapping 2 State 6 & 7 Battery Sample Collection Date: 08/08/2024 Cardinal Laboratories (H244806)								
Sample ID	Chloride (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Motor Oil Range Organics (MRO) (mg/Kg)	Gasoline Range Organics (GRO) (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)
AH-6-H-A-6"	176	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
AH-7-H-A-6"	64.0	87.0	56.8	<10.0	<0.050	<0.050	<0.050	<0.150
AH-9-H-A-6"	64	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
AH-10-H-A-6"	192	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
AH-11-H-A-6"	224	58.0	34.7	<10.0	<0.050	<0.050	<0.050	<0.150

Lab results indicate that the above Horizontal Extent Confirmation Samples are below target level for Chlorides, however on sample AH-7-H-A-6" results indicated TPH that were above target level (100 mg/kg) in Table 1.

On August 20, 2024, notification for confirmation sampling was sent to NMOCD, and approved. On August 22, 2024, SESI was not able to perform confirmation sampling as field TPH results were above target level.

In response to NMOCD's deferral denial and additional field sampling results, SESI conducted onsite excavation on February 12, 2025. The area was excavated to a depth of 12 inches to achieve the required vertical and horizontal extents in the AH-7-H-A location, where acceptable chloride and TPH levels were reached (see Document 1 for confirmation sampling location). Confirmation samples were collected, properly packaged, and sent to Cardinal Laboratories for analysis. The results of the confirmation samples are as follows:

Devon Energy Snapping 2 State 6H Sample Collection Date: 02/24/2025 Cardinal Laboratories (H251080)								
Sample ID	Chloride (mg/Kg)	DRO >C10-C28 (mg/Kg)	EXT DRO >C28-C36 (mg/Kg)	GRO C6-C10 (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)
AH-7-1-H1	272	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.050

Although SP-22 and SP-23 were located adjacent to flowlines, NMOCD determined that this area did not meet the criteria for deferral. Consequently, further excavation was required in these areas. Due to the presence of pipelines along the wall of the off-pad excavation area, the excavation was conducted manually on February 12, 2025. Field sampling indicated that TPH levels were below target levels; however, no samples were submitted to the laboratory for confirmation. Therefore, on March 7, 2025, confirmation samples were collected, properly packaged, and sent to Cardinal Laboratories for analysis. The results of the confirmation samples are as follows:

Devon Energy Snapping 2 State 6H Sample Collection Date: 03/07/2025 Cardinal Laboratories (H25378)								
Sample ID	Chloride (mg/Kg)	DRO >C10-C28 (mg/Kg)	EXT DRO >C28-C36 (mg/Kg)	GRO C6-C10 (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)
SP-22	112	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.050
SP-23	112	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.050

## Conclusion

In conclusion, SESI has successfully implemented the necessary remedial measures at this location to the maximum extent practicable, in accordance with the New Mexico Oil Conservation Division (NMOCD) requirements. On behalf of Devon Energy, SESI respectfully submits this closure report and formally requests the closure of incident nAB1435732150.

## Supplemental Documentation

Exhibit A: Vicinity Map

Exhibit B: Site Map

Document 1: OSE Information

Document 2: NMOCD Oil and Gas Map

Document 3: BLM Cave Karst Map

Document 4: FEMA Floodplain Map

Document 5: Photographs

Document 6: Analytical Results

Document 7: C-141 initial, final





**Devon Energy**  
**Snapping 6 & 7**

**nAB1435732150**

**2RP-2686**

**Exhibit A-**  
**Vicinity Map**



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# Snapping 2 State 6H

2RP-2686 – nAB1435732150  
30-015-39162

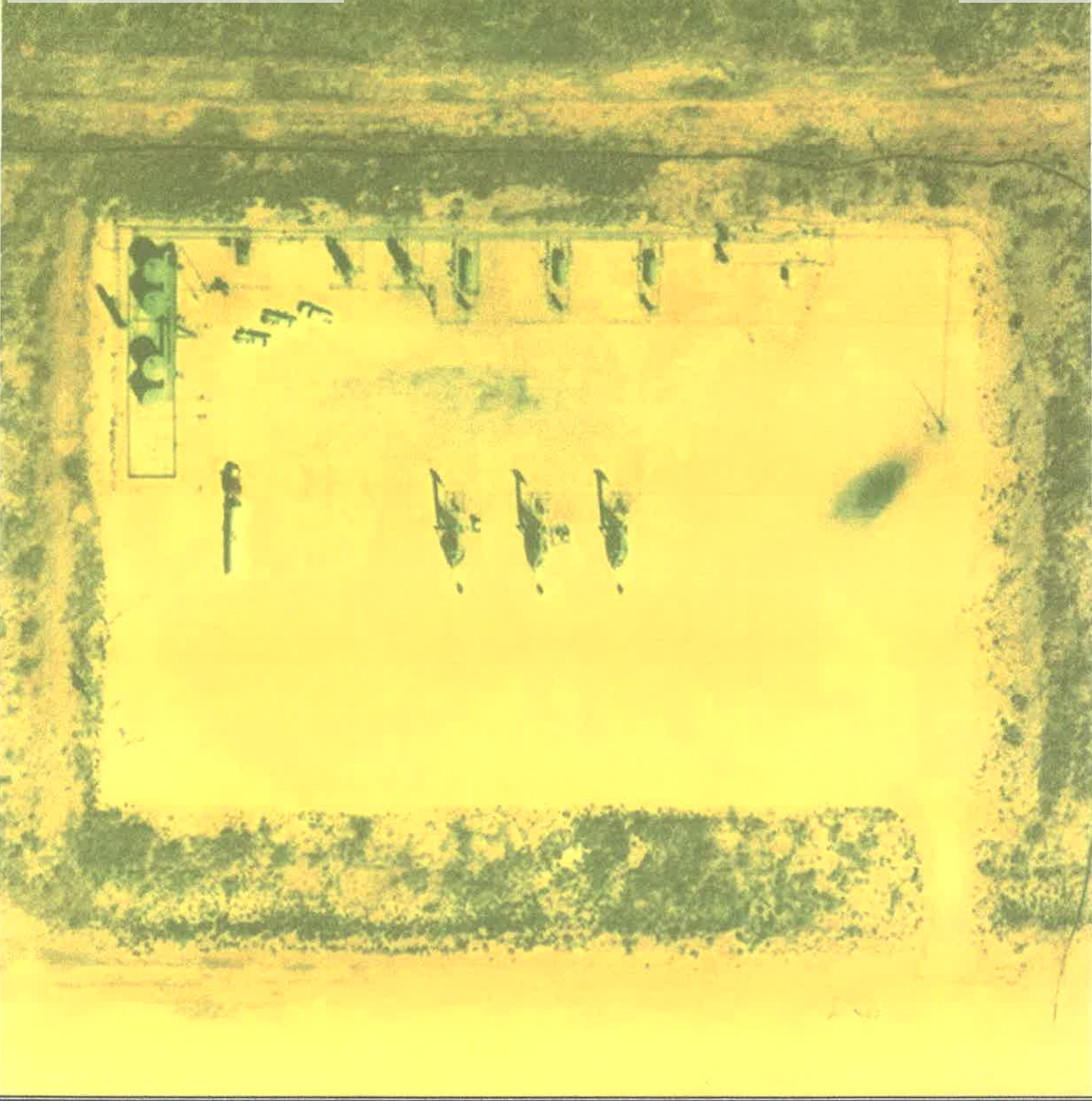
Confirmation Sampling:  
AH-7-1-H1'  
SP-22  
SP-23



Google Earth

90 ft





## Land Status

0 0.01 0.01 0.02  
mi



**New Mexico State Land Office**

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Karst\_Potential\_NM

Potential

High

Medium

Low

Critical\_Karst\_Zone\_NM



1/13/2021

nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=PODGHTML&amp;name=PodGroundSummaryHTML.jrxml&amp;basin=C&amp;nbr=03639&amp;s...



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03639 POD1	3	4	2	01	26S	31E	620168	3549279

**Driller License:** 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC  
**Driller Name:**

**Drill Start Date:** 09/23/2013 **Drill Finish Date:** 09/25/2013 **Plug Date:**  
**Log File Date:** 10/25/2013 **PCW Rev Date:** **Source:** Shallow  
**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**  
**Casing Size:** 6.00 **Depth Well:** 700 feet **Depth Water:** 365 feet

Water Bearing Stratifications:	Top	Bottom	Description
	560	600	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	600	660

<b>Meter Number:</b>	16575	<b>Meter Make:</b>	MASTERMETER
<b>Meter Serial Number:</b>	8827642	<b>Meter Multiplier:</b>	100.0000
<b>Number of Dials:</b>	6	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Gallons	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
12/26/2013	2013	4487	A	RPT		0
04/01/2014	2014	15593	A	RPT		3.408
07/01/2014	2014	27654	A	RPT		3.701
10/01/2014	2014	43114	A	RPT		4.744
12/31/2014	2014	54047	A	RPT		3.355
02/01/2015	2015	55287	A	RPT		0.381
03/02/2015	2015	56670	A	RPT		0.424
04/02/2015	2015	60341	A	RPT		1.127
04/30/2015	2015	65590	A	RPT		1.611
05/31/2015	2015	71252	A	RPT		1.738
07/01/2015	2015	74451	A	RPT		0.982
08/01/2015	2015	77975	A	RPT		1.081
08/31/2015	2015	82253	A	RPT		1.313
10/01/2015	2015	86369	A	RPT		1.263

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2013	0
	2014	15.208
	2015	9.920

1/13/2021

nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=C&nbr=03639&s...

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/13/21 12:50 PM

## POINT OF DIVERSION SUMMARY



1/13/2021

nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=PODGHTML&amp;name=PodGroundSummaryHTML.jrxml&amp;basin=C&amp;nbr=04256&amp;s...



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04256 POD1	4	4	2	01	26S	31E	620384	3549257

**Driller License:** 1706      **Driller Company:** ELITE DRILLERS CORPORATION  
**Driller Name:** BRYCE WALLACE  
**Drill Start Date:** 06/28/2018      **Drill Finish Date:** 07/04/2018      **Plug Date:**  
**Log File Date:** 07/18/2018      **PCW Rcv Date:**      **Source:** Artesian  
**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:** 40 GPM  
**Casing Size:** 5.80      **Depth Well:** 666 feet      **Depth Water:** 340 feet

Water Bearing Stratifications:	Top	Bottom	Description
	330	390	Sandstone/Gravel/Conglomerate
	390	430	Sandstone/Gravel/Conglomerate
	430	480	Sandstone/Gravel/Conglomerate
	480	610	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	326	666

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/13/21 12:51 PM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4637			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 3	SECONDS 57.21	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	44	57.0	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE SW Sec.2 T26S R31S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/15/2022	DRILLING ENDED 6/15/2022	DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±51	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 6/15/2022, 7/19/2022		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF FITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	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 (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 55		±6.5	Boring-HSA	--	--	--	--
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	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-04637-POD1

POD NO. 1

TRN NO. 726494

LOCATION 26S.31E.02.4.4.3.

WELL TAG ID NO.

PAGE 1 OF 2

	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				
<b>4. HYDROGEOLOGIC LOG OF WELL</b>	0	39	39	Sand, Medium/ Fine grained, poorly graded, Tan brown	Y    ✓ N	
	39	55	16	Sand, Medium/ Fine grained, poorly graded, Reddish Brown	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					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 type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):
<b>5. TEST; RIG SUPERVISION</b>	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: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt					
<b>6. SIGNATURE</b>	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 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
			Jackie D. Atkins		8/4/2022	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. C-04637	POD NO. 1	TRN NO. 726494	
LOCATION 765.31 E. 02.4.4.3	WELL TAG ID NO. —	PAGE 2 OF 2	



2904 W 2nd St  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

August 4, 2022

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record C-4637 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4637 Pod1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

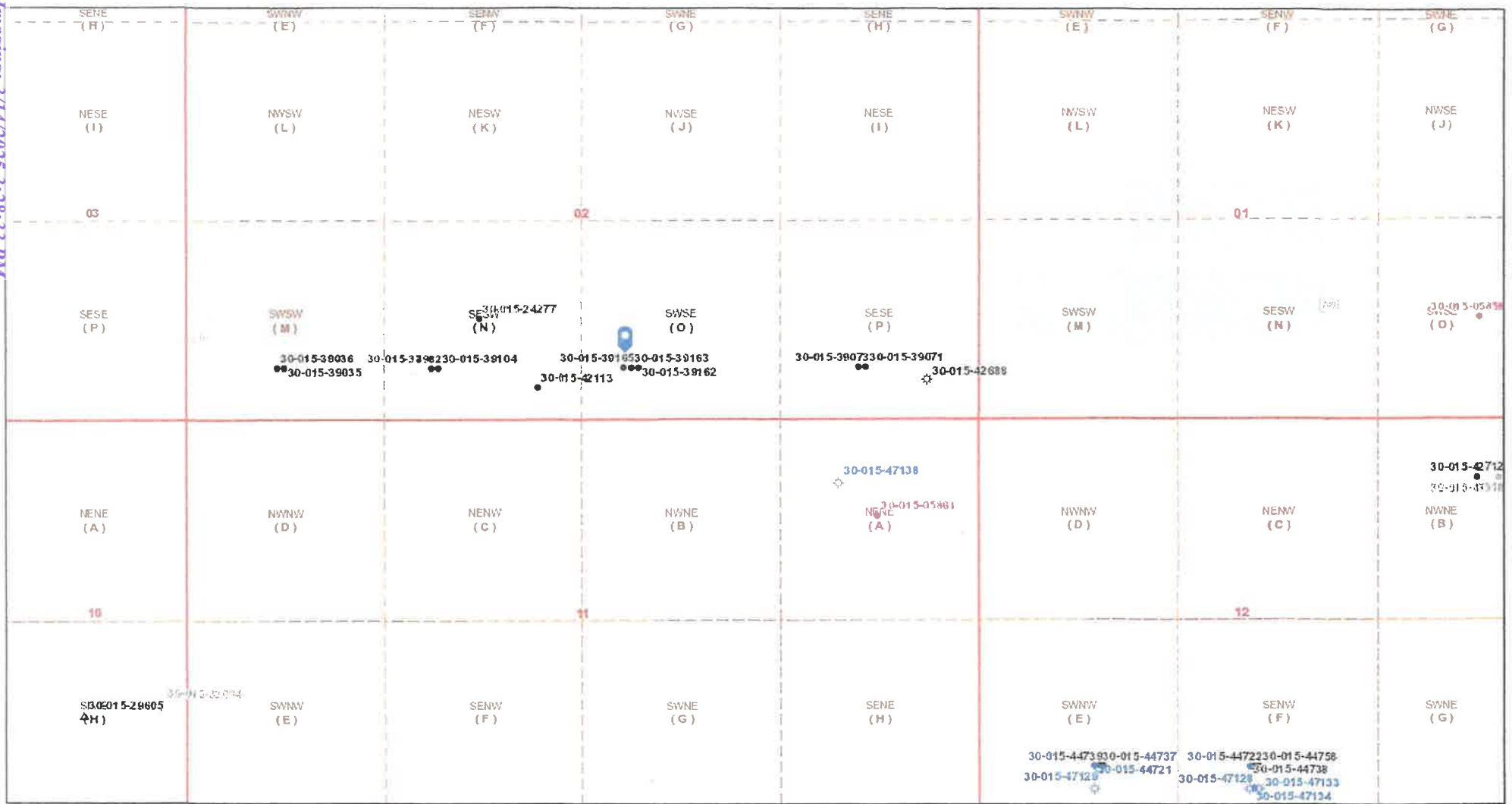
Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

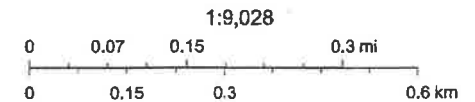
Enclosures: as noted above

# Devon, Snapping 2 State 6 & 7 Battery



12/30/2020, 9:31:25 AM

Wells - Large Scale	CO2, Temporarily Abandoned	Injection, Active	Oil, Cancelled	Salt Water Injection, New
undefined	Gas, Active	Injection, Cancelled	Oil, New	Salt Water Injection, Plugged
Miscellaneous	Gas, Cancelled	Injection, New	Oil, Plugged	Salt Water Injection, Temporarily Abandoned
CO2, Active	Gas, New	Injection, Plugged	Oil, Temporarily Abandoned	Water, Active
CO2, Cancelled	Gas, Plugged	Injection, Temporarily Abandoned	Salt Water Injection, Active	Water, Cancelled
CO2, New	Gas, Temporarily Abandoned	Oil, Active	Salt Water Injection, Cancelled	Water, New
CO2, Plugged				





Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, OCD, BLM

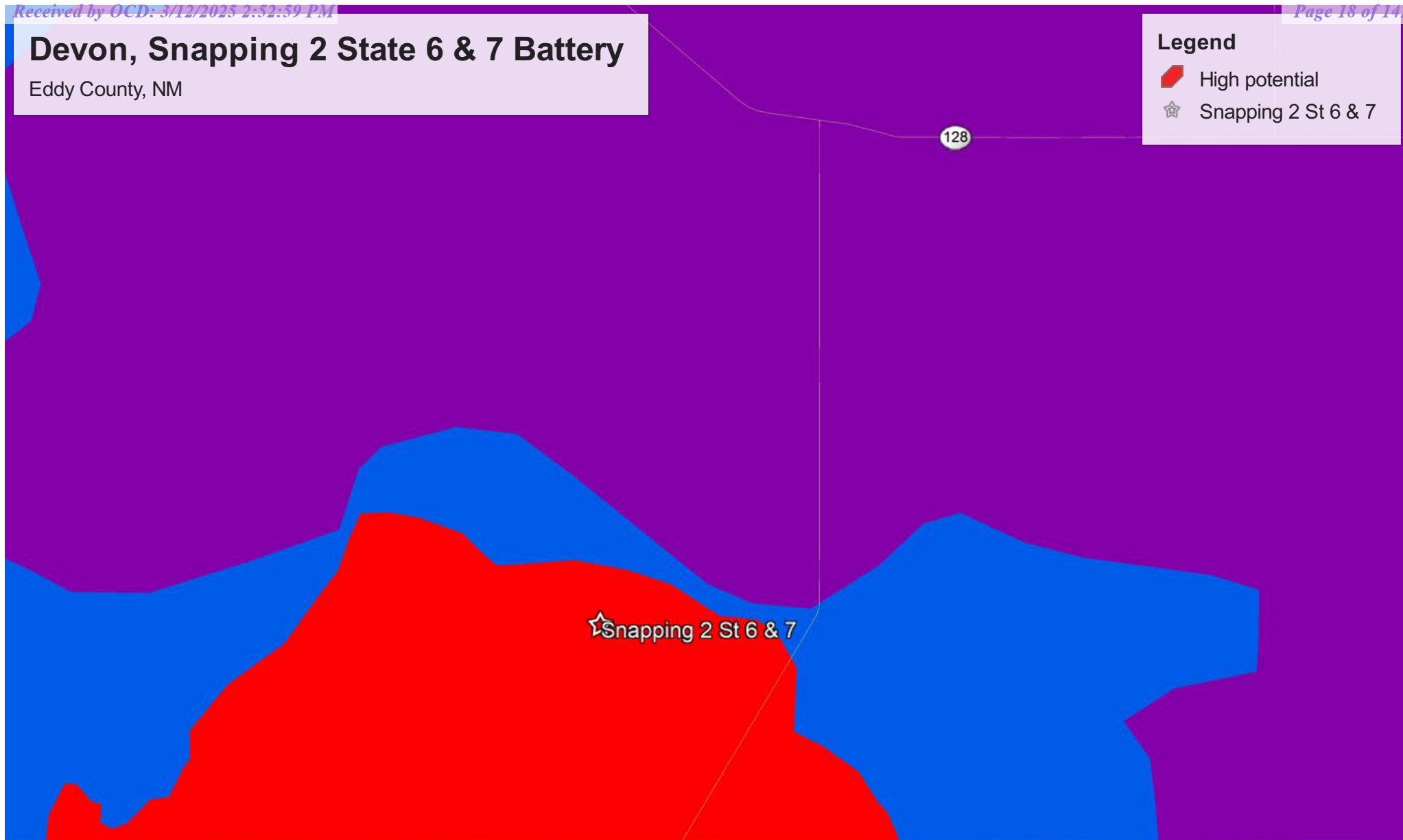


# Devon, Snapping 2 State 6 & 7 Battery

Eddy County, NM

## Legend

-  High potential
-  Snapping 2 St 6 & 7



## National Flood Hazard Layer FIRMette



03°45'11"W 32°4'13"N



USGS The National Map: Orthoimagery. Data refreshed October, 2020.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

103°44'34"W 32°3'43"N

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, AE
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Digital Data Available
MAP PANELS		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/30/2020 at 11:38 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



## Snapping 2 State 6H March 7, 2025







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

November 20, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: SNAPPING 2 ST. 6H

Enclosed are the results of analyses for samples received by the laboratory on 11/15/19 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celely D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-1 SURFACE (H903893-01)**

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/19/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.11	102	6.00	21.0	
Total BTEx	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 129 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-1 1' (H903893-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-2 SURFACE (H903893-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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\*=Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-2 1' (H903893-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/19/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-3 SURFACE (H903893-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93		
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6		
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8		
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0		
Total BTEX	<0.300	0.300	11/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/19/2019	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-3 1' (H903893-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93		
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6		
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8		
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0		
Total BTEx	<0.300	0.300	11/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/19/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-4 SURFACE (H903893-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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 Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-4 1' (H903893-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-5 SURFACE (H903893-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-5 1' (H903893-10)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93		
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6		
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8		
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0		
Total BTX	<0.300	0.300	11/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-6 SURFACE (H903893-11)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93		
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6		
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8		
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0		
Total BTX	<0.300	0.300	11/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/19/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24		
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND						

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-6 1' (H903893-12)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 131 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 128 % 37.6-147

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**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-7 SURFACE (H903893-13)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93		
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6		
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8		
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0		
Total BTEX	<0.300	0.300	11/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 128 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/19/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24		
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND						


Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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\* = Accredited Analyte

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 Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SNAPPING 2 ST. 6H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP-7 1' (H903893-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93		
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6		
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8		
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0		
Total BTEX	<0.300	0.300	11/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24		
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND						

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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 Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
±	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in dark ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager





# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Solutions		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Bob Allen		Company: Same					
Address: 703 East Clinton, PO Box 1613		Attn:					
City: Hobbs		Address:					
Phone #: 575 397-0510		City:					
Fax #: 575 393-4388		State:					
Project #: Dev-19-004		Project Owner:					
Project Name: SHAPPING 2 ST. 641		State:					
Project Location:		Phone #:					
Sample Name:		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D.		(G)RAB OR (C)OMP.		GROUNDWATER		DATE	
Sample I.D.		# CONTAINERS		WASTEWATER		TIME	
				SOIL			
				OIL			
				SLUDGE			
				OTHER:			
				ACID/BASE:			
				ICE / COOL			
				OTHER:			
H903893		1		X		10/15/89 3:30	
1 SP-1 Surface		1		X		0940	
2 SP-1 LF		1		X		0950	
3 SP-2 Surface		1		X		1005	
4 SP-2 LF		1		X		1015	
5 SP-3 Surface		1		X		1025	
6 SP-3 LF		1		X		1040	
7 SP-4 Surface		1		X		1055	
8 SP-4 LF		1		X		1110	
9 SP-5 Surface		1		X		1125	
10 SP-5 LF		1		X			
11 SP-6 Surface		1		X			
12 SP-6 LF		1		X			
13 SP-7 Surface		1		X			
14 SP-7 LF		1		X			
15 SP-8 Surface		1		X			
16 SP-8 LF		1		X			
17 SP-9 Surface		1		X			
18 SP-9 LF		1		X			
19 SP-10 Surface		1		X			
20 SP-10 LF		1		X			
21 SP-11 Surface		1		X			
22 SP-11 LF		1		X			
23 SP-12 Surface		1		X			
24 SP-12 LF		1		X			
25 SP-13 Surface		1		X			
26 SP-13 LF		1		X			
27 SP-14 Surface		1		X			
28 SP-14 LF		1		X			
29 SP-15 Surface		1		X			
30 SP-15 LF		1		X			
31 SP-16 Surface		1		X			
32 SP-16 LF		1		X			
33 SP-17 Surface		1		X			
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35 SP-18 Surface		1		X			
36 SP-18 LF		1		X			
37 SP-19 Surface		1		X			
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63 SP-32 Surface		1		X			
64 SP-32 LF		1		X			
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99 SP-50 Surface		1		X			
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124 SP-62 LF		1		X			
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129 SP-65 Surface		1		X			
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132 SP-66 LF		1		X			
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137 SP-69 Surface		1		X			
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199 SP-100 Surface		1		X			
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207 SP-104 Surface		1		X			
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209 SP-105 Surface		1		X			
210 SP-105 LF		1		X			
211 SP-106 Surface		1		X			
212 SP-106 LF		1		X			



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

<b>Company Name:</b> Safety and Environmental Solutions										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>									
<b>Project Manager:</b> Bob Allen										<b>P.O. #:</b>																			
<b>Address:</b> 703 East Clinton, PO Box 1613										<b>Company:</b> Same																			
<b>City:</b> Hobbs										<b>Attn:</b>																			
<b>Phone #:</b> 575 397-0510										<b>Address:</b>																			
<b>Fax #:</b> 575 393-4388										<b>City:</b>																			
<b>Project #:</b> DEJ-19-001										<b>State:</b>																			
<b>Project Name:</b> SUPPLY 2 ST. 6th										<b>Zip:</b>																			
<b>Project Location:</b>										<b>Phone #:</b>																			
<b>Sample Name:</b>										<b>Fax #:</b>																			
<b>FOR LAB USE ONLY</b>																													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	REMARKS			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					ACID/BASE:	ICE / COOL	OTHER :	
11	SP-6 Surface		4			X						10/15	1145	X	X	X	BTEX
12	SP-6 1ft		5			X						1155		X	X	X	TPH (2015 EXT)
13	SP-7 Surface		9			X						1215		X	X	X	CHLORIDES
14	SP-7 1ft		9			X						1230					

<b>PLEASE NOTE:</b> Unlabeled and Damaged Containers liability and identity exclusive remedy for any claims arising whether based in contract or tort, shall be limited to the amount paid by the client for the services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.	
<b>Relinquished By:</b> <i>Sam</i>	<b>Received By:</b> <i>John Henderson</i>
<b>Date:</b> 10/15/19 <b>Time:</b> 1315	<b>Received By:</b> <i>John Henderson</i>
<b>Relinquished By:</b>	<b>Received By:</b>
<b>Time:</b>	<b>Time:</b>
<b>Delivered By:</b> (Circle One) <i>714</i>	<b>Sample Condition:</b> <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Delivered By:</b> (Circle One) <i>914</i>	<b>Checked By:</b> <i>[Signature]</i>
<b>Delivered By:</b> (Circle One) <i>914</i>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
<b>REMARKS:</b>	



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

June 04, 2020

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

RE: Snapping 2 State 6H 2RP-2686  
Devon

OrderNo.: 2003405

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/10/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 20, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-1 Surface

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 9:30:00 AM

Lab ID: 2003405-001

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/12/2020 5:31:33 PM	51058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/13/2020 7:57:30 PM	51034
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/13/2020 7:57:30 PM	51034
Surr: DNOP	99.1	55.1-146		%Rec	1	3/13/2020 7:57:30 PM	51034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/13/2020 1:05:59 PM	51030
Surr: BFB	89.2	66.6-105		%Rec	1	3/13/2020 1:05:59 PM	51030
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/13/2020 1:05:59 PM	51030
Toluene	ND	0.050		mg/Kg	1	3/13/2020 1:05:59 PM	51030
Ethylbenzene	ND	0.050		mg/Kg	1	3/13/2020 1:05:59 PM	51030
Xylenes, Total	ND	0.10		mg/Kg	1	3/13/2020 1:05:59 PM	51030
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	3/13/2020 1:05:59 PM	51030

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

## Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQ Practical Quantitative Limit  
 S %a Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

Page 1 of 14



## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-1 1ft

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 9:35:00 AM

Lab ID: 2003405-002

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	140	59		mg/Kg	20	3/12/2020 6:33:17 PM	51058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/13/2020 1:29:03 PM	51034
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/13/2020 1:29:03 PM	51034
Surr: DNOP	88.2	55.1-146		%Rec	1	3/13/2020 1:29:03 PM	51034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2020 1:29:20 PM	51030
Surr: BFB	85.8	66.6-105		%Rec	1	3/13/2020 1:29:20 PM	51030
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/13/2020 1:29:20 PM	51030
Toluene	ND	0.048		mg/Kg	1	3/13/2020 1:29:20 PM	51030
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2020 1:29:20 PM	51030
Xylenes, Total	ND	0.096		mg/Kg	1	3/13/2020 1:29:20 PM	51030
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	3/13/2020 1:29:20 PM	51030

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 2 of 14

## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-2 Surface

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 9:50:00 AM

Lab ID: 2003405-003

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	8800	300		mg/Kg	100	3/14/2020 5:47:33 PM	51058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/13/2020 1:53:29 PM	51034
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/13/2020 1:53:29 PM	51034
Surr: DNOP	96.5	55.1-146		%Rec	1	3/13/2020 1:53:29 PM	51034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2020 2:39:22 PM	51030
Surr: BFB	87.6	66.6-105		%Rec	1	3/13/2020 2:39:22 PM	51030
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/13/2020 2:39:22 PM	51030
Toluene	ND	0.049		mg/Kg	1	3/13/2020 2:39:22 PM	51030
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2020 2:39:22 PM	51030
Xylenes, Total	ND	0.099		mg/Kg	1	3/13/2020 2:39:22 PM	51030
Surr: 4-Bromofluorobenzene	93.9	80-120		%Rec	1	3/13/2020 2:39:22 PM	51030

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

## Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQH 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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## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-2 1ft

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 10:00:00 AM

Lab ID: 2003405-004

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	730	60		mg/Kg	20	3/12/2020 6:57:59 PM	51058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/13/2020 2:17:36 PM	51034
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/13/2020 2:17:36 PM	51034
Surr: DNOP	97.8	55.1-146		%Rec	1	3/13/2020 2:17:36 PM	51034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2020 3:02:43 PM	51030
Surr: BFB	85.2	66.6-105		%Rec	1	3/13/2020 3:02:43 PM	51030
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/13/2020 3:02:43 PM	51030
Toluene	ND	0.049		mg/Kg	1	3/13/2020 3:02:43 PM	51030
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2020 3:02:43 PM	51030
Xylenes, Total	ND	0.098		mg/Kg	1	3/13/2020 3:02:43 PM	51030
Surr: 4-Bromofluorobenzene	91.1	80-120		%Rec	1	3/13/2020 3:02:43 PM	51030

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

## Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQ Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-3 Surface

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 10:15:00 AM

Lab ID: 2003405-005

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	4200	150		mg/Kg	50	3/14/2020 5:59:58 PM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	83	9.4		mg/Kg	1	3/13/2020 2:41:57 PM	51034
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	3/13/2020 2:41:57 PM	51034
Surr: DNOP	105	55.1-146		%Rec	1	3/13/2020 2:41:57 PM	51034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2020 3:26:11 PM	51030
Surr: BFB	88.0	66.6-105		%Rec	1	3/13/2020 3:26:11 PM	51030
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/13/2020 3:26:11 PM	51030
Toluene	ND	0.048		mg/Kg	1	3/13/2020 3:26:11 PM	51030
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2020 3:26:11 PM	51030
Xylenes, Total	ND	0.095		mg/Kg	1	3/13/2020 3:26:11 PM	51030
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	3/13/2020 3:26:11 PM	51030

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

<b>Qualifiers:</b>		
*	Value exceeds Maximum Contaminant Level	
D	Sample Diluted Due to Matrix	
H	Holding times for preparation or analysis exceeded	
ND	Not Detected at the Reporting Limit	
PQL	Practical Quantitative Limit	
S	% Recovery outside of range due to dilution or matrix	

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit



## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-3 1ft

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 10:35:00 AM

Lab ID: 2003405-006

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	140	60		mg/Kg	20	3/12/2020 10:40:14 PM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/13/2020 3:06:18 PM	51034
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/13/2020 3:06:18 PM	51034
Surr: DNOP	103	55.1-146		%Rec	1	3/13/2020 3:06:18 PM	51034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/13/2020 3:49:40 PM	51030
Surr: BFB	87.0	66.6-105		%Rec	1	3/13/2020 3:49:40 PM	51030
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/13/2020 3:49:40 PM	51030
Toluene	ND	0.050		mg/Kg	1	3/13/2020 3:49:40 PM	51030
Ethylbenzene	ND	0.050		mg/Kg	1	3/13/2020 3:49:40 PM	51030
Xylenes, Total	ND	0.10		mg/Kg	1	3/13/2020 3:49:40 PM	51030
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	3/13/2020 3:49:40 PM	51030

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

## Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQ Practical Quantitative Limit  
 S %a Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

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## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-4 Surface

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 10:45:00 AM

Lab ID: 2003405-007

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/12/2020 11:41:59 PM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	390	92		mg/Kg	10	3/13/2020 8:17:02 AM	51063
Motor Oil Range Organics (MRO)	770	460		mg/Kg	10	3/13/2020 8:17:02 AM	51063
Surr: DNOP	0	55.1-146	S	%Rec	10	3/13/2020 8:17:02 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2020 4:12:56 PM	51041
Surr: BFB	87.1	66.6-105		%Rec	1	3/13/2020 4:12:56 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/13/2020 4:12:56 PM	51041
Toluene	ND	0.049		mg/Kg	1	3/13/2020 4:12:56 PM	51041
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2020 4:12:56 PM	51041
Xylenes, Total	ND	0.098		mg/Kg	1	3/13/2020 4:12:56 PM	51041
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	3/13/2020 4:12:56 PM	51041

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2003405

Date Reported: 6/4/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-4 1ft

Project: Snapping 2 State 6H 2RP-2686

Collection Date: 3/6/2020 11:00:00 AM

Lab ID: 2003405-008

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	820	60		mg/Kg	20	3/12/2020 11:54:20 PM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/13/2020 6:45:11 PM	51063
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2020 6:45:11 PM	51063
Surr: DNOP	99.6	55.1-146		%Rec	1	3/13/2020 6:45:11 PM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/13/2020 5:23:08 PM	51041
Surr: BFB	85.8	66.6-105		%Rec	1	3/13/2020 5:23:08 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/13/2020 5:23:08 PM	51041
Toluene	ND	0.050		mg/Kg	1	3/13/2020 5:23:08 PM	51041
Ethylbenzene	ND	0.050		mg/Kg	1	3/13/2020 5:23:08 PM	51041
Xylenes, Total	ND	0.099		mg/Kg	1	3/13/2020 5:23:08 PM	51041
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	1	3/13/2020 5:23:08 PM	51041

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2003405

04-Jun-20

**Client:** Safety & Environmental Solutions**Project:** Snapping 2 State 6H 2RP-2686

Sample ID: <b>MB-51058</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51058</b>	RunNo: <b>67231</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317707</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-51058</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51058</b>	RunNo: <b>67231</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317708</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Sample ID: <b>MB-51072</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51072</b>	RunNo: <b>67231</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317744</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-51072</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51072</b>	RunNo: <b>67231</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317745</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

**Qualifiers:**

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

## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003405

04-Jun-20

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H 2RP-2686

Sample ID: <b>LCS-51063</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51063</b>	RunNo: <b>67261</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2317963</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	70	130			
Surr: DNOP	4.5		5.000		90.0	55.1	146			

Sample ID: <b>MB-51063</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51063</b>	RunNo: <b>67261</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2317965</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.3	55.1	146			

Sample ID: <b>LCS-51034</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51034</b>	RunNo: <b>67227</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318175</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	70	130			
Surr: DNOP	3.9		5.000		78.6	55.1	146			

Sample ID: <b>MB-51034</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51034</b>	RunNo: <b>67227</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318176</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.9	55.1	146			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recoveries 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#: 2003405

04-Jun-20

**Client:** Safety & Environmental Solutions**Project:** Snapping 2 State 6H 2RP-2686

Sample ID: <b>mb-51030</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>51030</b>		RunNo: <b>67249</b>							
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/12/2020</b>		SeqNo: <b>2317095</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		83.1	66.6	105			

Sample ID: <b>lcs-51030</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>51030</b>		RunNo: <b>67249</b>							
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/12/2020</b>		SeqNo: <b>2317096</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.6	80	120			
Surr: BFB	940		1000		94.4	66.6	105			

Sample ID: <b>mb-51041</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>51041</b>		RunNo: <b>67276</b>							
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>		SeqNo: <b>2318736</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.0	66.6	105			

Sample ID: <b>lcs-51041</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>51041</b>		RunNo: <b>67276</b>							
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>		SeqNo: <b>2318737</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.6	80	120			
Surr: BFB	950		1000		95.4	66.6	105			

Sample ID: <b>2003405-008ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>AH-4 1ft</b>	Batch ID: <b>51041</b>		RunNo: <b>67276</b>							
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>		SeqNo: <b>2318740</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.15	0	90.6	69.1	142			
Surr: BFB	880		966.2		91.4	66.6	105			

Sample ID: <b>2003405-008amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>AH-4 1ft</b>	Batch ID: <b>51041</b>		RunNo: <b>67276</b>							
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>		SeqNo: <b>2318741</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to 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#: 2003405

04-Jun-20

**Client:** Safety & Environmental Solutions**Project:** Snapping 2 State 6H 2RP-2686

Sample ID: 2003405-008amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: AH-4 1ft		Batch ID: 51041		RunNo: 67276						
Prep Date: 3/11/2020		Analysis Date: 3/13/2020		SeqNo: 2318741		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.32	0	92.9	69.1	142	1.03	20	
Surr: BFB	880		932.8		94.7	66.6	105	0	0	

**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#: 2003405

04-Jun-20

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H 2RP-2686

Sample ID: <b>mb-51030</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51030</b>	RunNo: <b>67249</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317171</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.8	80	120			

Sample ID: <b>LCS-51030</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51030</b>	RunNo: <b>67249</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317180</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.0	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.7	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	80	120			

Sample ID: <b>mb-51041</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51041</b>	RunNo: <b>67276</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318846</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	80	120			

Sample ID: <b>LCS-51041</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51041</b>	RunNo: <b>67276</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318847</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	80	120			
Toluene	0.93	0.050	1.000	0	93.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	80	120			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RI Reporting Limit

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

WO#: 2003405

04-Jun-20

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H 2RP-2686

Sample ID: 2003405-007ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: AH-4 Surface	Batch ID: 51041	RunNo: 67276								
Prep Date: 3/11/2020	Analysis Date: 3/13/2020	SeqNo: 2318849 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9737	0	86.5	78.5	119			
Toluene	0.87	0.049	0.9737	0	89.6	75.7	123			
Ethylbenzene	0.89	0.049	0.9737	0	91.8	74.3	126			
Xylenes, Total	2.7	0.097	2.921	0	91.7	72.9	130			
Surr: 4-Bromofluorobenzene	0.94		0.9737		96.2	80	120			

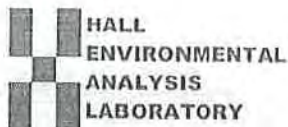
Sample ID: 2003405-007amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: AH-4 Surface	Batch ID: 51041	RunNo: 67276								
Prep Date: 3/11/2020	Analysis Date: 3/13/2020	SeqNo: 2318850 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	0.9843	0	79.8	78.5	119	7.01	20	
Toluene	0.83	0.049	0.9843	0	84.2	75.7	123	5.17	20	
Ethylbenzene	0.85	0.049	0.9843	0	86.5	74.3	126	4.92	20	
Xylenes, Total	2.6	0.098	2.953	0	87.0	72.9	130	4.24	20	
Surr: 4-Bromofluorobenzene	0.90		0.9843		91.9	80	120	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 % Recoveries 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  
RI 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: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 2003405

RcptNo: 1

Received By: Juan Rojas

3/10/2020 8:37:00 AM

Completed By: Juan Rojas

3/10/2020 11:49:29 AM

Reviewed By: LB

3/10/2020

Chain of Custody

1. Is Chain of Custody sufficiently 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  $6.0^{\circ}\text{C}$ ? 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 QNG) 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:  
Adjusted? ( $<2$  or  $>12$  unless noted)  
Checked by: DAD 3/10/20

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	2.2	Good				
2	2.3	Good				







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

June 12, 2020

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

RE: Devon Snapping 2 Stile 6H 2RP-2686

OrderNo.: 2006313

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/5/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-5-H West Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 9:15:00 AM

Lab ID: 2006313-001

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	380	59		mg/Kg	20	6/11/2020 4:50:03 PM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2020 7:30:29 PM	52926
Surr: BFB	98.2	70-130		%Rec	1	6/7/2020 7:30:29 PM	52926
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	14	9.4		mg/Kg	1	6/7/2020 11:18:53 PM	52928
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/7/2020 11:18:53 PM	52928
Surr: DNOP	29.6	55.1-146	S	%Rec	1	6/7/2020 11:18:53 PM	52928
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/7/2020 7:30:29 PM	52926
Toluene	ND	0.049		mg/Kg	1	6/7/2020 7:30:29 PM	52926
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2020 7:30:29 PM	52926
Xylenes, Total	ND	0.099		mg/Kg	1	6/7/2020 7:30:29 PM	52926
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	1	6/7/2020 7:30:29 PM	52926
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	6/7/2020 7:30:29 PM	52926
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/7/2020 7:30:29 PM	52926
Surr: Toluene-d8	92.5	70-130		%Rec	1	6/7/2020 7:30:29 PM	52926

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

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- % % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- C Value above quantitation range
- F Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-6-H West Surface

Project: Devon Snapping 2 Stile 611 2RP-2686

Collection Date: 6/3/2020 9:30:00 AM

Lab ID: 2006313-002

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1200	60		mg/Kg	20	6/11/2020 5:27:15 PM	53020
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/7/2020 8:56:20 PM	52926
Surr: BFB	99.3	70-130		%Rec	1	6/7/2020 8:56:20 PM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/7/2020 11:43:21 PM	52928
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/7/2020 11:43:21 PM	52928
Surr: DNOP	14.5	55.1-146	S	%Rec	1	6/7/2020 11:43:21 PM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/7/2020 8:56:20 PM	52926
Toluene	ND	0.050		mg/Kg	1	6/7/2020 8:56:20 PM	52926
Ethylbenzene	ND	0.050		mg/Kg	1	6/7/2020 8:56:20 PM	52926
Xylenes, Total	ND	0.099		mg/Kg	1	6/7/2020 8:56:20 PM	52926
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	6/7/2020 8:56:20 PM	52926
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	6/7/2020 8:56:20 PM	52926
Surr: Dibromofluoromethane	100	70-130		%Rec	1	6/7/2020 8:56:20 PM	52926
Surr: Toluene-d8	93.9	70-130		%Rec	1	6/7/2020 8:56:20 PM	52926

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
	U	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
	POI	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-7-H West Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 9:45:00 AM

Lab ID: 2006313-003

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1200	60		mg/Kg	20	6/11/2020 7:18:57 PM	53036
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2020 10:21:53 PM	52926
Surr: BFB	103	70-130		%Rec	1	6/7/2020 10:21:53 PM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/8/2020 12:07:41 AM	52928
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2020 12:07:41 AM	52928
Surr: DNOP	9.24	55.1-146	S	%Rec	1	6/8/2020 12:07:41 AM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/7/2020 10:21:53 PM	52926
Toluene	ND	0.049		mg/Kg	1	6/7/2020 10:21:53 PM	52926
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2020 10:21:53 PM	52926
Xylenes, Total	ND	0.099		mg/Kg	1	6/7/2020 10:21:53 PM	52926
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	6/7/2020 10:21:53 PM	52926
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	6/7/2020 10:21:53 PM	52926
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/7/2020 10:21:53 PM	52926
Surr: Toluene-d8	98.1	70-130		%Rec	1	6/7/2020 10:21:53 PM	52926

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

Qualifiers:	*	Value exceeds Maximum Concentration 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	3x Recovery outside of range due to dilution or matrix		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-8-H North Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 10:00:00 AM

Lab ID: 2006313-004

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	430	60		mg/Kg	20	6/11/2020 7:56:11 PM	53036
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2020 10:50:28 PM	52926
Surr: BFB	102	70-130		%Rec	1	6/7/2020 10:50:28 PM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/8/2020 12:32:10 AM	52928
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2020 12:32:10 AM	52928
Surr: DNOP	18.2	55.1-146	S	%Rec	1	6/8/2020 12:32:10 AM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/7/2020 10:50:28 PM	52926
Toluene	ND	0.049		mg/Kg	1	6/7/2020 10:50:28 PM	52926
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2020 10:50:28 PM	52926
Xylenes, Total	ND	0.099		mg/Kg	1	6/7/2020 10:50:28 PM	52926
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	6/7/2020 10:50:28 PM	52926
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	6/7/2020 10:50:28 PM	52926
Surr: Dibromofluoromethane	100	70-130		%Rec	1	6/7/2020 10:50:28 PM	52926
Surr: Toluene-d8	96.4	70-130		%Rec	1	6/7/2020 10:50:28 PM	52926

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

Qualifiers:	A	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	F	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	J	Sample pH Not in Range
	PQL	Practical Quantitative Limit	KI	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-9-H North Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 10:20:00 AM

Lab ID: 2006313-005

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	60		mg/Kg	20	6/11/2020 8:08:36 PM	53036
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2020 1:13:14 AM	52926
Surr: BFB	103	70-130		%Rec	1	6/8/2020 1:13:14 AM	52926
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/8/2020 12:56:30 AM	52928
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2020 12:56:30 AM	52928
Surr: DNOP	17.3	55.1-146	S	%Rec	1	6/8/2020 12:56:30 AM	52928
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	6/8/2020 1:13:14 AM	52926
Toluene	ND	0.049		mg/Kg	1	6/8/2020 1:13:14 AM	52926
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2020 1:13:14 AM	52926
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2020 1:13:14 AM	52926
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%Rec	1	6/8/2020 1:13:14 AM	52926
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	6/8/2020 1:13:14 AM	52926
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/8/2020 1:13:14 AM	52926
Surr: Toluene-d8	100	70-130		%Rec	1	6/8/2020 1:13:14 AM	52926

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
	PR	Practical Quantitative Limit	RI	Reporting Limit
	S	% Recovery outside of range due to dilution to matrix		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-10-H East Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 10:40:00 AM

Lab ID: 2006313-006

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	6/11/2020 8:21:00 PM	53036
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2020 1:41:49 AM	52926
Surr: BFB	102	70-130		%Rec	1	6/8/2020 1:41:49 AM	52926
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/8/2020 1:20:50 AM	52928
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2020 1:20:50 AM	52928
Surr: DNOP	12.8	55.1-146	S	%Rec	1	6/8/2020 1:20:50 AM	52928
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 1:41:49 AM	52926
Toluene	ND	0.050		mg/Kg	1	6/8/2020 1:41:49 AM	52926
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2020 1:41:49 AM	52926
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2020 1:41:49 AM	52926
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	6/8/2020 1:41:49 AM	52926
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/8/2020 1:41:49 AM	52926
Surr: Dibromofluoromethane	96.4	70-130		%Rec	1	6/8/2020 1:41:49 AM	52926
Surr: Toluene-d8	96.6	70-130		%Rec	1	6/8/2020 1:41:49 AM	52926

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

Qualifiers:	* Value exceeds Maximum Contaminant Level
D	Sample Diluted Due to Matrix
H	Holding time 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
RI	Reporting Limit

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## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: All-11-H East Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 11:00:00 AM

Lab ID: 2006313-007

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1300	60		mg/Kg	20	6/11/2020 8:33:25 PM	53036
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2020 2:10:16 AM	52926
Surr: BFB	100	70-130		%Rec	1	6/8/2020 2:10:16 AM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/8/2020 1:45:11 AM	52928
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2020 1:45:11 AM	52928
Surr: DNOP	8.99	55.1-146	S	%Rec	1	6/8/2020 1:45:11 AM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 2:10:16 AM	52926
Toluene	ND	0.049		mg/Kg	1	6/8/2020 2:10:16 AM	52926
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2020 2:10:16 AM	52926
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2020 2:10:16 AM	52926
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	6/8/2020 2:10:16 AM	52926
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	6/8/2020 2:10:16 AM	52926
Surr: Dibromofluoromethane	99.4	70-130		%Rec	1	6/8/2020 2:10:16 AM	52926
Surr: Toluene-d8	97.7	70-130		%Rec	1	6/8/2020 2:10:16 AM	52926

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	F	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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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-12-H East Surface

Project: Devon Snapping 2 Stile 611 2RP-2686

Collection Date: 6/3/2020 11:25:00 AM

Lab ID: 2006313-008

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	420	60		mg/Kg	20	6/11/2020 9:10:38 PM	53036
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2020 2:38:51 AM	52926
Surr: BFB	95.4	70-130		%Rec	1	6/8/2020 2:38:51 AM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	6/8/2020 2:09:36 AM	52928
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2020 2:09:36 AM	52928
Surr: DNOP	9.37	55.1-146	S	%Rec	1	6/8/2020 2:09:36 AM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 2:38:51 AM	52926
Toluene	ND	0.050		mg/Kg	1	6/8/2020 2:38:51 AM	52926
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2020 2:38:51 AM	52926
Xylenes, Total	ND	0.10		mg/Kg	1	6/8/2020 2:38:51 AM	52926
Surr: 1,2-Dichloroethane-d4	88.4	70-130		%Rec	1	6/8/2020 2:38:51 AM	52926
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	6/8/2020 2:38:51 AM	52926
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	6/8/2020 2:38:51 AM	52926
Surr: Toluene-d8	92.5	70-130		%Rec	1	6/8/2020 2:38:51 AM	52926

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

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

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-13-H West Surface

Project: Devon Snapping 2 Stile GH 2RP-2686

Collection Date: 6/3/2020 11:35:00 AM

Lab ID: 2006313-009

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	410	61		mg/Kg	20	6/11/2020 9:23:02 PM	53036
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2020 3:07:31 AM	52926
Surr: BFB	99.5	70-130		%Rec	1	6/8/2020 3:07:31 AM	52926
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	14	9.9		mg/Kg	1	6/8/2020 2:33:50 AM	52928
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2020 2:33:50 AM	52928
Surr: DNOP	14.3	55.1-146	S	%Rec	1	6/8/2020 2:33:50 AM	52928
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 3:07:31 AM	52926
Toluene	ND	0.050		mg/Kg	1	6/8/2020 3:07:31 AM	52926
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2020 3:07:31 AM	52926
Xylenes, Total	ND	0.10		mg/Kg	1	6/8/2020 3:07:31 AM	52926
Surr: 1,2-Dichloroethane-d4	90.8	70-130		%Rec	1	6/8/2020 3:07:31 AM	52926
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	6/8/2020 3:07:31 AM	52926
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/8/2020 3:07:31 AM	52926
Surr: Toluene-d8	97.5	70-130		%Rec	1	6/8/2020 3:07:31 AM	52926

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 time for preservation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	QOL	Practical Quantitation Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2006313  
Date Reported: 6/12/2020

CLIENT: Safety & Environmental Solutions  
Project: Devon Snapping 2 Stile 6H 2RP-2686  
Lab ID: 2006313-010 Matrix: SOIL

Client Sample ID: AH-14-H East Surface  
Collection Date: 6/3/2020 11:50:00 AM  
Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	460	60		mg/Kg	20	6/11/2020 9:35:26 PM	53036
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2020 3:36:01 AM	52926
Surr: BFB	100	70-130		%Rec	1	6/8/2020 3:36:01 AM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/8/2020 2:58:09 AM	52928
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2020 2:58:09 AM	52928
Surr: DNOP	23.2	55.1-146	S	%Rec	1	6/8/2020 2:58:09 AM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 3:36:01 AM	52926
Toluene	ND	0.050		mg/Kg	1	6/8/2020 3:36:01 AM	52926
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2020 3:36:01 AM	52926
Xylenes, Total	ND	0.10		mg/Kg	1	6/8/2020 3:36:01 AM	52926
Surr: 1,2-Dichloroethane-d4	88.3	70-130		%Rec	1	6/8/2020 3:36:01 AM	52926
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	6/8/2020 3:36:01 AM	52926
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/8/2020 3:36:01 AM	52926
Surr: Toluene-d8	91.1	70-130		%Rec	1	6/8/2020 3:36:01 AM	52926

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

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

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-15-H East Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 12:15:00 PM

Lab ID: 2006313-011

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	450	60		mg/Kg	20	6/11/2020 9:47:51 PM	53036
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2020 4:04:27 AM	52926
Surr: BFB	99.7	70-130		%Rec	1	6/8/2020 4:04:27 AM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/8/2020 3:22:26 AM	52928
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2020 3:22:26 AM	52928
Surr: DNOP	21.7	55.1-146	S	%Rec	1	6/8/2020 3:22:26 AM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 4:04:27 AM	52926
Toluene	ND	0.050		mg/Kg	1	6/8/2020 4:04:27 AM	52926
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2020 4:04:27 AM	52926
Xylenes, Total	ND	0.10		mg/Kg	1	6/8/2020 4:04:27 AM	52926
Surr: 1,2-Dichloroethane-d4	90.2	70-130		%Rec	1	6/8/2020 4:04:27 AM	52926
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	6/8/2020 4:04:27 AM	52926
Surr: Dibromofluoromethane	94.0	70-130		%Rec	1	6/8/2020 4:04:27 AM	52926
Surr: Toluene-d8	95.5	70-130		%Rec	1	6/8/2020 4:04:27 AM	52926

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
	R	Recovery outside of range due to dilution of matrix		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: A11-16-H South Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 12:35:00 PM

Lab ID: 2006313-012

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	410	60		mg/Kg	20	6/11/2020 10:00:16 PM	53036
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2020 4:33:03 AM	52926
Surr: BFB	105	70-130		%Rec	1	6/8/2020 4:33:03 AM	52926
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	14	9.7		mg/Kg	1	6/8/2020 3:46:45 AM	52928
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2020 3:46:45 AM	52928
Surr: DNOP	15.8	55.1-146	S	%Rec	1	6/8/2020 3:46:45 AM	52928
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 4:33:03 AM	52926
Toluene	ND	0.049		mg/Kg	1	6/8/2020 4:33:03 AM	52926
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2020 4:33:03 AM	52926
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2020 4:33:03 AM	52926
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%Rec	1	6/8/2020 4:33:03 AM	52926
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	6/8/2020 4:33:03 AM	52926
Surr: Dibromofluoromethane	91.6	70-130		%Rec	1	6/8/2020 4:33:03 AM	52926
Surr: Toluene-d8	97.5	70-130		%Rec	1	6/8/2020 4:33:03 AM	52926

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

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- H Analyte detected in the associated Method Blank
- E Value above quantitation range
- L Analyte detected below quantitation limits
- P Sample pH Not in Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2006313

Date Reported: 6/12/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: A11-17-11 West Surface

Project: Devon Snapping 2 Stile 6H 2RP-2686

Collection Date: 6/3/2020 12:50:00 PM

Lab ID: 2006313-013

Matrix: SOIL

Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	450	60		mg/Kg	20	6/11/2020 10:12:40 PM	53036
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2020 5:01:39 AM	52926
Surr: BFB	96.0	70-130		%Rec	1	6/8/2020 5:01:39 AM	52926
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/8/2020 9:36:47 AM	52928
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2020 9:36:47 AM	52928
Surr: DNOP	98.3	55.1-146		%Rec	1	6/8/2020 9:36:47 AM	52928
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/8/2020 5:01:39 AM	52926
Toluene	ND	0.050		mg/Kg	1	6/8/2020 5:01:39 AM	52926
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2020 5:01:39 AM	52926
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2020 5:01:39 AM	52926
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%Rec	1	6/8/2020 5:01:39 AM	52926
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	6/8/2020 5:01:39 AM	52926
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/8/2020 5:01:39 AM	52926
Surr: Toluene-d8	93.2	70-130		%Rec	1	6/8/2020 5:01:39 AM	52926

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 levels
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	PQT	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report  
Lab Order 2006313  
Date Reported: 6/12/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions  
Project: Devon Snapping 2 Stile 6H 2RP-2686  
Lab ID: 2006313-014 Matrix: SOIL

Client Sample ID: AH-18-H West Surface  
Collection Date: 6/3/2020 1:20:00 PM  
Received Date: 6/5/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	400	61		mg/Kg	20	6/11/2020 10:25:05 PM	53036
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2020 5:30:10 AM	52926
Surr: BFB	99.6	70-130		%Rec	1	6/8/2020 5:30:10 AM	52926
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	13	9.2		mg/Kg	1	6/8/2020 4:35:04 AM	52928
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/8/2020 4:35:04 AM	52928
Surr: DNOP	16.6	55.1-146	S	%Rec	1	6/8/2020 4:35:04 AM	52928
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	6/8/2020 5:30:10 AM	52926
Toluene	ND	0.049		mg/Kg	1	6/8/2020 5:30:10 AM	52926
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2020 5:30:10 AM	52926
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2020 5:30:10 AM	52926
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	6/8/2020 5:30:10 AM	52926
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	6/8/2020 5:30:10 AM	52926
Surr: Dibromofluoromethane	98.8	70-130		%Rec	1	6/8/2020 5:30:10 AM	52926
Surr: Toluene-d8	93.8	70-130		%Rec	1	6/8/2020 5:30:10 AM	52926

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	P	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
REL	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#: 2006313

12-Jun-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Snapping 2 Stile 6H 2RP-2686

Sample ID: MB-53020	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53020	RunNo: 69566								
Prep Date: 6/11/2020	Analysis Date: 6/11/2020	SeqNo: 2415362 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	1.5								
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Sample ID: LCS-53020	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53020	RunNo: 69566								
Prep Date: 6/11/2020	Analysis Date: 6/11/2020	SeqNo: 2415363 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	14	1.5	15.00	0	92.5	90	110			
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Sample ID: MB-53036	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53036	RunNo: 69566								
Prep Date: 6/11/2020	Analysis Date: 6/11/2020	SeqNo: 2415399 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	1.5								
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Sample ID: LCS-53036	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53036	RunNo: 69566								
Prep Date: 6/11/2020	Analysis Date: 6/11/2020	SeqNo: 2415400 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	14	1.5	15.00	0	92.9	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
- R Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- I Analyte detected below quantitation limits
- P Sample pH Not In Range
- RI Reporting Limit

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006313

12-Jun-20

Client: Safety & Environmental Solutions  
 Project: Devon Snapping 2 Stile 6H 2RP-2686

Sample ID: LCS-52928	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52928	RunNo: 69454								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2409916 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	125	70	130			
Surr: DNOP	6.5		5.000		129	55.1	146			

Sample ID: MB-52928	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52928	RunNo: 69454								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2409917 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	14		10.00		136	55.1	146			

## Qualifiers:

- |   |   |
|---|---|
| • Value exceeds Maximum Contaminant Level               | B Analyte detected on the associated Method Blank |
| D Sample Diluted Due to Matrix                          | F Value above quantitation range                  |
| H Holding time 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                        | RI 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#: 2006313

12-Jun-20

Client: Safety & Environmental Solutions  
 Project: Devon Snapping 2 Stile 6H 2RP-2686

Sample ID: mb-52926	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410169 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	0.46		0.5000		92.5	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.3	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.8	70	130			
Surr: Toluene-d8	0.48		0.5000		96.3	70	130			

Sample ID: lcs-52926	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410170 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.8	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.47		0.5000		93.5	70	130			

Sample ID: 2006313-001ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: AH-5-H West Surfac	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410183 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9970	0	108	71.1	115			
Toluene	1.1	0.050	0.9970	0	115	79.6	132			
Ethylbenzene	1.2	0.050	0.9970	0	118	83.8	134			
Xylenes, Total	3.6	0.10	2.991	0	120	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.47		0.4985		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4985		97.5	70	130			
Surr: Dibromofluoromethane	0.51		0.4985		102	70	130			
Surr: Toluene-d8	0.50		0.4985		100	70	130			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- U Holding time for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Reported Quantitation Limit
- S Recovery outside of range due to dilution or matrix

- U Analyte detected in the associated Method list
- U Value above quantitation range
- U Analyte detected below quantitation limit
- P Sample pH Not In Range
- U Reporting Limit

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## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006313

12-Jun-20

Client: Safety & Environmental Solutions  
 Project: Devon Snapping 2 Stile 6H 2RP-2686

Sample ID: 2006313-001amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: AH-5-H West Surfac	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410184 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9940	0	118	71.1	115	8.11	20	S
Toluene	1.0	0.050	0.9940	0	102	79.6	132	11.8	20	
Ethylbenzene	1.1	0.050	0.9940	0	108	83.8	134	8.72	20	
Xylenes, Total	3.2	0.099	2.982	0	108	82.4	132	11.0	20	
Surr: 1,2-Dichloroethane-d4	0.46		0.4970		93.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4970		98.2	70	130	0	0	
Surr: Dibromofluoromethane	0.53		0.4970		106	70	130	0	0	
Surr: Toluene-d8	0.45		0.4970		89.8	70	130	0	0	

## 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	F Analyte detected below quantitation limits
NB Not Detected at the Reporting Limit	P Sample pH Not In Range
PQ Practical Quantitative Limit	RI Reporting Limit
S % Recovers outside of range due to dilution or matrix	

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

WO#: 2006313

12-Jun-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Snapping 2 Stile 6H 2RP-2686

Sample ID: mb-52926	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410208 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	470		500.0		94.3	70	130			

Sample ID: lcs-52926	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410209 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.2	70	130			
Surr: BFB	490		500.0		98.6	70	130			

Sample ID: 2006313-002ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: AH-6-H West Surfac	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410224 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	21	5.0	24.93	0	83.8	70	130			
Surr: BFB	500		498.5		100	70	130			

Sample ID: 2006313-002amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: AH-6-H West Surfac	Batch ID: 52926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis Date: 6/7/2020	SeqNo: 2410225 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	21	4.9	24.53	0	84.9	70	130	0.303	20	
Surr: BFB	470		490.7		96.7	70	130	0	0	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- F Value above quantitation range
- L 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: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 2006313

ReptNo: 1

Received By: Juan Rojas

6/5/2020 9:30:00 AM

Completed By: Leah Baca

6/5/2020 10:25:48 AM

Reviewed By:

JR 6/5/20

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  $6.0^{\circ}\text{C}$ ? 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: GM 6/5/20

Special Handling (if applicable)

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

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	2.9	Good				
2	0.4	Good				

## Chain-of-Custody Record

Client: Safety & Environmental SolutionsMailing Address: 707 G. (H) NWPhone # 575-397-0910

Email or Fax #

QA/QC Package:

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

Turn-Around Time:

☒ Standard ☐ RushProject Name: QuonSnapping 2, State 6HProject # 22-2686Project # Dev-19-004

Project Manager:

Atlew, Bob

Sampler:

Sam JonesOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CRI): 29.0 = 2.9 (°C)Cooler Temp (including CRI): 29.0 = 2.9 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

## 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 / TMBs (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Remarks:

B-11

Devon

Received by: Sam JonesDate: 6/14/20Time: 4:30Received by: Sam JonesDate: 6/14/20Time: 4:30Received by: Sam JonesDate: 6/14/20Time: 4:30







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

August 23, 2023

Bob Allen

Safety & Environmental Solutions

PO Box 1613

Hobbs, NM 88241

TEL: (575) 397-0510

FAX: (575) 393-4388

RE: Devon Snapping 2 State 6H

OrderNo.: 2308797

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 12 sample(s) on 8/15/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-10 Surface

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 9:30:00 AM

Lab ID: 2308797-001

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: RBC
Chloride	ND	60		mg/Kg	20	8/16/2023 9:55:02 PM	76911
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	23	9.9		mg/Kg	1	8/17/2023 2:42:48 PM	76893
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2023 2:42:48 PM	76893
Surr: DNOP	89.6	69-147		%Rec	1	8/17/2023 2:42:48 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/18/2023 2:40:07 PM	76885
Surr: BFB	104	15-244		%Rec	1	8/18/2023 2:40:07 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	8/18/2023 2:40:07 PM	76885
Toluene	ND	0.050		mg/Kg	1	8/18/2023 2:40:07 PM	76885
Ethylbenzene	ND	0.050		mg/Kg	1	8/18/2023 2:40:07 PM	76885
Xylenes, Total	ND	0.099		mg/Kg	1	8/18/2023 2:40:07 PM	76885
Surr: 4-Bromofluorobenzene	115	39.1-146		%Rec	1	8/18/2023 2:40:07 PM	76885

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	Above Quantitation Range (Estimated Value)
H	Holding times for preservation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
ND	Practical Quantitation Limit	RI	Reporting Limit
S	% Recovery outside of standard limits. If analyzed results may be estimated		

Page 1 of 16

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-10 1Ft

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 10:00:00 AM

Lab ID: 2308797-002

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: RBC
Chloride	ND	60		mg/Kg	20	8/16/2023 10:07:26 PM	76911
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/17/2023 3:06:46 PM	76893
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 3:06:46 PM	76893
Surr: DNOP	85.0	69-147		%Rec	1	8/17/2023 3:06:46 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/18/2023 3:03:48 PM	76885
Surr: BFB	102	15-244		%Rec	1	8/18/2023 3:03:48 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	8/18/2023 3:03:48 PM	76885
Toluene	ND	0.050		mg/Kg	1	8/18/2023 3:03:48 PM	76885
Ethylbenzene	ND	0.050		mg/Kg	1	8/18/2023 3:03:48 PM	76885
Xylenes, Total	ND	0.099		mg/Kg	1	8/18/2023 3:03:48 PM	76885
Surr: 4-Bromofluorobenzene	113	39.1-146		%Rec	1	8/18/2023 3:03:48 PM	76885

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	Above Quantitation Range/Estimated Value
	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	R1	Reporting Limit
	S	% Recovers outside of standard limits. Diluted results may be calculated		

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## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-11 Surface

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 11:00:00 AM

Lab ID: 2308797-003

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	820	60		mg/Kg	20	8/16/2023 10:19:50 PM	76911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	30	9.8		mg/Kg	1	8/17/2023 3:30:41 PM	76893
Motor Oil Range Organics (MRO)	55	49		mg/Kg	1	8/17/2023 3:30:41 PM	76893
Surr: DNOP	82.6	69-147		%Rec	1	8/17/2023 3:30:41 PM	76893
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/18/2023 3:51:15 PM	76885
Surr: BFB	105	15-244		%Rec	1	8/18/2023 3:51:15 PM	76885
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/18/2023 3:51:15 PM	76885
Toluene	ND	0.049		mg/Kg	1	8/18/2023 3:51:15 PM	76885
Ethylbenzene	ND	0.049		mg/Kg	1	8/18/2023 3:51:15 PM	76885
Xylenes, Total	ND	0.097		mg/Kg	1	8/18/2023 3:51:15 PM	76885
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	8/18/2023 3:51:15 PM	76885

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	Above Quantitation Range/Estimated Value
	H	Holding time 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 Quantitation Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If unblinded results may be estimated		

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## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-11 1Ft

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 11:15:00 AM

Lab ID: 2308797-004

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	96	60		mg/Kg	20	8/16/2023 10:57:03 PM	76911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/17/2023 3:54:41 PM	76893
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2023 3:54:41 PM	76893
Surr: DNOP	86.4	69-147		%Rec	1	8/17/2023 3:54:41 PM	76893
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/18/2023 4:15:02 PM	76885
Surr: BFB	99.6	15-244		%Rec	1	8/18/2023 4:15:02 PM	76885
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	8/18/2023 4:15:02 PM	76885
Toluene	ND	0.047		mg/Kg	1	8/18/2023 4:15:02 PM	76885
Ethylbenzene	ND	0.047		mg/Kg	1	8/18/2023 4:15:02 PM	76885
Xylenes, Total	ND	0.093		mg/Kg	1	8/18/2023 4:15:02 PM	76885
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	8/18/2023 4:15:02 PM	76885

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

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- (D) Sample Diluted Due to Matrix
- (H) Holding time for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- (PQ) Practical Quantitation Limit
- \* Recoveries outside of standard limits. If audited results must be estimated

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-12 Surface

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 12:14:00 AM

Lab ID: 2308797-005

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: RBC
Chloride	ND	60		mg/Kg	20	8/16/2023 11:09:28 PM	76911
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/17/2023 4:18:39 PM	76893
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 4:18:39 PM	76893
Surr: DNOP	83.3	69-147		%Rec	1	8/17/2023 4:18:39 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/18/2023 4:38:44 PM	76885
Surr: BFB	103	15-244		%Rec	1	8/18/2023 4:38:44 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	8/18/2023 4:38:44 PM	76885
Toluene	ND	0.049		mg/Kg	1	8/18/2023 4:38:44 PM	76885
Ethylbenzene	ND	0.049		mg/Kg	1	8/18/2023 4:38:44 PM	76885
Xylenes, Total	ND	0.099		mg/Kg	1	8/18/2023 4:38:44 PM	76885
Surr: 4-Bromofluorobenzene	113	39.1-146		%Rec	1	8/18/2023 4:38:44 PM	76885

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	Q	Practical Quantitation Limit	U	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-12 1Ft

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 12:25:00 PM

Lab ID: 2308797-006

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	170	60		mg/Kg	20	8/16/2023 11:21:53 PM	76911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/17/2023 4:42:31 PM	76893
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 4:42:31 PM	76893
Surr: DNOP	82.1	69-147		%Rec	1	8/17/2023 4:42:31 PM	76893
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/18/2023 5:02:23 PM	76885
Surr: BFB	106	15-244		%Rec	1	8/18/2023 5:02:23 PM	76885
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	8/18/2023 5:02:23 PM	76885
Toluene	ND	0.050		mg/Kg	1	8/18/2023 5:02:23 PM	76885
Ethylbenzene	ND	0.050		mg/Kg	1	8/18/2023 5:02:23 PM	76885
Xylenes, Total	ND	0.10		mg/Kg	1	8/18/2023 5:02:23 PM	76885
Surr: 4-Bromofluorobenzene	115	39.1-146		%Rec	1	8/18/2023 5:02:23 PM	76885

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	POU	Practical Quantitation Limit	RL	Reporting Limit
	S	% Recovery outside of the default limits. If modified limits are to be estimated		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-13 Surface

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 12:37:00 AM

Lab ID: 2308797-007

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	ND	60		mg/Kg	20	8/16/2023 11:34:17 PM	76911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/17/2023 5:06:27 PM	76893
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2023 5:06:27 PM	76893
Surr: DNOP	82.4	69-147		%Rec	1	8/17/2023 5:06:27 PM	76893
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/18/2023 5:26:06 PM	76885
Surr: BFB	102	15-244		%Rec	1	8/18/2023 5:26:06 PM	76885
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	8/18/2023 5:26:06 PM	76885
Toluene	ND	0.049		mg/Kg	1	8/18/2023 5:26:06 PM	76885
Ethylbenzene	ND	0.049		mg/Kg	1	8/18/2023 5:26:06 PM	76885
Xylenes, Total	ND	0.098		mg/Kg	1	8/18/2023 5:26:06 PM	76885
Surr: 4-Bromofluorobenzene	114	39.1-146		%Rec	1	8/18/2023 5:26:06 PM	76885

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	D	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range (Estimated Value)
	H	Holding times for preparation or analysis exceeded	F	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	QD	Practical Quantitative Limit	RL	Reporting Limit
	S	*% Recovery outside of standard limits. If undiluted results may be estimated		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-13 1Ft

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 12:51:00 PM

Lab ID: 2308797-008

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	8/18/2023 4:01:04 PM	76940
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/17/2023 5:30:20 PM	76893
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/17/2023 5:30:20 PM	76893
Surr: DNOP	78.4	69-147		%Rec	1	8/17/2023 5:30:20 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/18/2023 5:49:47 PM	76885
Surr: BFB	101	15-244		%Rec	1	8/18/2023 5:49:47 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/18/2023 5:49:47 PM	76885
Toluene	ND	0.047		mg/Kg	1	8/18/2023 5:49:47 PM	76885
Ethylbenzene	ND	0.047		mg/Kg	1	8/18/2023 5:49:47 PM	76885
Xylenes, Total	ND	0.095		mg/Kg	1	8/18/2023 5:49:47 PM	76885
Surr: 4-Bromofluorobenzene	112	39.1-146		%Rec	1	8/18/2023 5:49:47 PM	76885

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

Qualifiers:	+	Value exceeds Maximum Contaminant Level	Ⓚ	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range-Estimated Value
	II	Waiting times for preparation of analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	PQL	Practical Quantitation Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If additional results may be estimated		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-14 Surface

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 1:31:00 PM

Lab ID: 2308797-009

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	8/18/2023 4:13:28 PM	76940
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/17/2023 5:54:22 PM	76893
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/17/2023 5:54:22 PM	76893
Surr: DNOP	82.6	69-147		%Rec	1	8/17/2023 5:54:22 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/18/2023 6:13:24 PM	76885
Surr: BFB	98.6	15-244		%Rec	1	8/18/2023 6:13:24 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	8/18/2023 6:13:24 PM	76885
Toluene	ND	0.047		mg/Kg	1	8/18/2023 6:13:24 PM	76885
Ethylbenzene	ND	0.047		mg/Kg	1	8/18/2023 6:13:24 PM	76885
Xylenes, Total	ND	0.093		mg/Kg	1	8/18/2023 6:13:24 PM	76885
Surr: 4-Bromofluorobenzene	110	39.1-146		%Rec	1	8/18/2023 6:13:24 PM	76885

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

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Q/L Practical Quantitative Limit
- S % Recovery outside of standard limits. If calculated, results may be estimated

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- F Analyte detected below quantitation limits
- J\* Sample pH Not in Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-14 1Ft

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 1:44:00 PM

Lab ID: 2308797-010

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	8/18/2023 4:25:53 PM	76940
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/17/2023 6:18:29 PM	76893
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/17/2023 6:18:29 PM	76893
Surr: DNOP	80.3	69-147		%Rec	1	8/17/2023 6:18:29 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/18/2023 6:37:06 PM	76885
Surr: BFB	102	15-244		%Rec	1	8/18/2023 6:37:06 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/18/2023 6:37:06 PM	76885
Toluene	ND	0.048		mg/Kg	1	8/18/2023 6:37:06 PM	76885
Ethylbenzene	ND	0.048		mg/Kg	1	8/18/2023 6:37:06 PM	76885
Xylenes, Total	ND	0.096		mg/Kg	1	8/18/2023 6:37:06 PM	76885
Surr: 4-Bromofluorobenzene	113	39.1-146		%Rec	1	8/18/2023 6:37:06 PM	76885

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	Analyte Quantitation Range Exceeded Value
	H	Holding times for preparation or analysis exceeded	F	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	PQL	Practical Quantitation Limit	RE	Reporting Limit
	S	*a Recovery outside of standard limits. If undiluted results may be estimated		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-15 Surface

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 1:57:00 PM

Lab ID: 2308797-011

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	8/18/2023 4:38:18 PM	76940
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/17/2023 6:42:37 PM	76893
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2023 6:42:37 PM	76893
Surr: DNOP	81.7	69-147		%Rec	1	8/17/2023 6:42:37 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/18/2023 7:00:52 PM	76885
Surr: BFB	99.4	15-244		%Rec	1	8/18/2023 7:00:52 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/18/2023 7:00:52 PM	76885
Toluene	ND	0.048		mg/Kg	1	8/18/2023 7:00:52 PM	76885
Ethylbenzene	ND	0.048		mg/Kg	1	8/18/2023 7:00:52 PM	76885
Xylenes, Total	ND	0.096		mg/Kg	1	8/18/2023 7:00:52 PM	76885
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	8/18/2023 7:00:52 PM	76885

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	Above Quantitation Range Estimated Value
	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
	Q1	Practical Quantitation Limit	R	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated		

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2308797

Date Reported: 8/23/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-15 1Ft

Project: Devon Snapping 2 State 6H

Collection Date: 8/10/2023 2:08:00 PM

Lab ID: 2308797-012

Matrix: SOIL

Received Date: 8/15/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	8/18/2023 4:50:42 PM	76940
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/17/2023 7:06:53 PM	76893
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 7:06:53 PM	76893
Surr: DNOP	81.8	69-147		%Rec	1	8/17/2023 7:06:53 PM	76893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/18/2023 7:24:29 PM	76885
Surr: BFB	99.9	15-244		%Rec	1	8/18/2023 7:24:29 PM	76885
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/18/2023 7:24:29 PM	76885
Toluene	ND	0.049		mg/Kg	1	8/18/2023 7:24:29 PM	76885
Ethylbenzene	ND	0.049		mg/Kg	1	8/18/2023 7:24:29 PM	76885
Xylenes, Total	ND	0.097		mg/Kg	1	8/18/2023 7:24:29 PM	76885
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	8/18/2023 7:24:29 PM	76885

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	Above Quantitation Range/Estimated Value
	H	Holding times for preservation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	REL	Practical Quantitation Limit	RL	Reporting Limit
	S	*a Recovery outside of standard limits. If undiluted results may be estimated		

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## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308797

23-Aug-23

Client: Safety &amp; Environmental Solutions

Project: Devon Snapping 2 State 6H

Sample ID: MB-76911	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 76911	RunNo: 99040								
Prep Date: 8/16/2023	Analysis Date: 8/16/2023	SeqNo: 3610115 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76911	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 76911	RunNo: 99040								
Prep Date: 8/16/2023	Analysis Date: 8/16/2023	SeqNo: 3610116 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Sample ID: MB-76940	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 76940	RunNo: 99079								
Prep Date: 8/18/2023	Analysis Date: 8/18/2023	SeqNo: 3611672 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76940	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 76940	RunNo: 99079								
Prep Date: 8/18/2023	Analysis Date: 8/18/2023	SeqNo: 3611673 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

## Qualifiers:

M	Value exceeds Maximum Contaminant Level	D	Analyte detected in the associated Method Blank
D	Sample Delayed Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding time for preparation or analysis exceeded	J	Analyte detected below quantitation limits
NI	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitation Limit	RI	Reporting Limit
S	% Recovery outside of standard limits. If modified results may be estimated		

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## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308797

23-Aug-23

Client: Safety &amp; Environmental Solutions

Project: Devon Snapping 2 State 6H

Sample ID: MB-76893	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76893	RunNo: 99056								
Prep Date: 8/16/2023	Analysis Date: 8/17/2023	SeqNo: 3610376 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	8.4		10.00		83.7	69	147			

Sample ID: LCS-76893	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 76893	RunNo: 99056								
Prep Date: 8/16/2023	Analysis Date: 8/17/2023	SeqNo: 3610377 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.5	61.9	130			
Surr: DNOP	4.0		5.000		80.5	69	147			

Sample ID: 2308797-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP-10 Surface	Batch ID: 76893	RunNo: 99056								
Prep Date: 8/16/2023	Analysis Date: 8/17/2023	SeqNo: 3610399 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.7	48.31	23.37	71.6	54.2	135			
Surr: DNOP	4.2		4.831		86.6	69	147			

Sample ID: 2308797-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP-10 Surface	Batch ID: 76893	RunNo: 99056								
Prep Date: 8/16/2023	Analysis Date: 8/17/2023	SeqNo: 3610400 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	49.80	23.37	66.0	54.2	135	3.03	29.2	
Surr: DNOP	4.1		4.980		82.6	69	147	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 Quantitation Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated
- U Analyte detected at the associated Method Blank
- U Above Quantitation Range Estimated Value
- U Analyte detected below quantitation limits
- U Sample pH Not in Range
- U Reporting Limit

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308797

23 Aug 23

Client: Safety &amp; Environmental Solutions

Project: Devon Snapping 2 State 6H

Sample ID: Ics-76885	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 76885		RunNo: 99070							
Prep Date: 8/15/2023	Analysis Date: 8/18/2023		SeqNo: 3611292		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	87.2	70	130			
Surr: BFB	2000		1000		200	15	244			

Sample ID: mb-76885	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 76885	RunNo: 99070								
Prep Date: 8/15/2023	Analysis Date: 8/18/2023	SeqNo: 3611293		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	970		1000		96.6	15	244			

Sample ID: 2308797-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SP-10 Surface	Batch ID: 76885		RunNo: 99070							
Prep Date: 8/15/2023	Analysis Date: 8/18/2023		SeqNo: 3611983		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.80	0	85.8	70	130			
Surr: BFB	2000		992.1		206	15	244			

Sample ID: 2308797-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SP-10 Surface	Batch ID: 76885			RunNo: 99070						
Prep Date: 8/15/2023	Analysis Date: 8/18/2023			SeqNo: 3611984		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.83	0	85.5	70	130	1.39	20	
Surr: BFB	2000		993.0		206	15	244	0	0	

## Qualifiers:

- \* Value exceeds Maximum Concentration Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S % Recoveries outside of standard limits. If undiluted results are to be estimated
- † Analyte detected in the associated Method Blank
- ‡ Above Quantitation Range/Estimated Value
- § Analyte detected below quantitation limits
- ¶ Sample pH Not in Range
- RI Reporting Limit

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## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2308797

23-Aug-23

Client: Safety &amp; Environmental Solutions

Project: Devon Snapping 2 State 6H

Sample ID: LCS-76885		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 76885		RunNo: 99070						
Prep Date: 8/15/2023		Analysis Date: 8/18/2023		SeqNo: 3611296			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	70	130			
Toluene	1.0	0.050	1.000	0	103	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	105	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	39.1	146			

Sample ID: mb-76885	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76885			RunNo: 99070						
Prep Date: 8/15/2023	Analysis Date: 8/18/2023			SeqNo: 3611297			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	1.1		1.000		108	39.1	146			

Sample ID: 2308797-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: SP-10 1Ft	Batch ID: 76885			RunNo: 99070						
Prep Date: 8/15/2023	Analysis Date: 8/18/2023			SeqNo: 3612000			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9901	0	102	70	130			
Toluene	1.1	0.050	0.9901	0	106	70	130			
Ethylbenzene	1.1	0.050	0.9901	0	107	70	130			
Xylenes, Total	3.2	0.099	2.970	0	109	70	130			
Surr: 4-Bromofluorobenzene	1.1		0.9901		112	39.1	146			

Sample ID: 2308797-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: SP-10 1Ft	Batch ID: 76885			RunNo: 99070						
Prep Date: 8/15/2023	Analysis Date: 8/18/2023			SeqNo: 3612001			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9960	0	104	70	130	1.71	20	
Toluene	1.0	0.050	0.9960	0	104	70	130	0.990	20	
Ethylbenzene	1.1	0.050	0.9960	0	107	70	130	0.0401	20	
Xylenes, Total	3.2	0.10	2.988	0	108	70	130	0.227	20	
Surr: 4-Bromofluorobenzene	1.1		0.9960		110	39.1	146	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding time for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- R % Recovery outside of standard limits. From diluted results may be estimated
- U Analyte detected in the unspiked Method Blank
- F Above Quantitation Range/Unadjusted Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RJ Reporting Limit

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Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975 FAX: 505-345-1107  
 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2308797

RcptNo: 1

Received By: Steve McQuiston 8/15/2023 7:20:00 AM

Completed By: Desiree Dominguez 8/15/2023 10:21:50 AM

Reviewed By: *ms* 8/15/23

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  $6.0^{\circ}\text{C}$ ? 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: *ms* 8/15/23

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	4.4	Good	Not Present	Morty		

## Chain-of-Custody Record

Client: Sa-Sody ENV. SolutionsMailing Address: PO Box 1613Phone: 505 397-0510email or Fax#: 601 600 881-1111

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Sampler: H. AbickOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including cfl): 16-0.2-4.4 (°C)

Container Type and #

Preservative Type

HEAL No. 2308797

Date

Time

Sample Name

SP-10, 1 FT

SP-11, 1 FT

SP-11, 1 FT

SP-12, 1 FT

SP-12, 1 FT

SP-13, 1 FT

SP-13, 1 FT

SP-14, 1 FT

SP-14, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

Turn-Around Time:

☒ Standard ☒ Rush 5 DayProject Name: DEVON STATION 1-19-2Project #: DEV-19-004Project Manager: Bob AllenSampler: H. AbickOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including cfl): 16-0.2-4.4 (°C)

Container Type and #

Preservative Type

HEAL No. 2308797

Date

Time

Sample Name

SP-10, 1 FT

SP-11, 1 FT

SP-11, 1 FT

SP-12, 1 FT

SP-12, 1 FT

SP-13, 1 FT

SP-13, 1 FT

SP-14, 1 FT

SP-14, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

SP-15, 1 FT

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SP-15, 1 FT

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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Remarks:

13:11 Devon

13:11 Devon

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13:11 Devon

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Date

Time

Date

Time

Date

Time

Date

Time

Date

Time



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

October 24, 2023

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

RE: Snapping 2 State 6H

OrderNo.: 2310583

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/12/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Andy Freeman", is written over a light gray horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP16

Project: Snapping 2 State 6H

Collection Date: 10/10/2023 8:34:00 AM

Lab ID: 2310583-001

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: SNS
Chloride	ND	60		mg/Kg	20	10/16/2023 11:59:06 PM	78189
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	16	9.8		mg/Kg	1	10/13/2023 6:29:35 PM	78128
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/13/2023 6:29:35 PM	78128
Surr: DNOP	94.3	69-147		%Rec	1	10/13/2023 6:29:35 PM	78128
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/14/2023 3:42:24 AM	78113
Surr: BFB	91.1	15-244		%Rec	1	10/14/2023 3:42:24 AM	78113
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/14/2023 3:42:24 AM	78113
Toluene	ND	0.048		mg/Kg	1	10/14/2023 3:42:24 AM	78113
Ethylbenzene	ND	0.048		mg/Kg	1	10/14/2023 3:42:24 AM	78113
Xylenes, Total	ND	0.096		mg/Kg	1	10/14/2023 3:42:24 AM	78113
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/14/2023 3:42:24 AM	78113

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

Qualifiers:			
+	Value exceeds Maximum Contaminant Level	Ⓢ	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range (Estimated Value)
H	Holding time(s) for preparation or analysis exceeded	F	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
POI	Practical Quantitation Limit	RT	Reporting Limit
R	% Recovery outside of standard limit. If modified, results may be compromised		



## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: C.S.17

Project: Snapping 2 State 6H

Collection Date: 10/10/2023 9:07:00 AM

Lab ID: 2310583-002

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	89	60		mg/Kg	20	10/17/2023 12:36:20 AM	78189
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	10/13/2023 6:53:23 PM	78128
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/13/2023 6:53:23 PM	78128
Surr: DNOP	105	69-147		%Rec	1	10/13/2023 6:53:23 PM	78128
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/14/2023 4:05:53 AM	78113
Surr: BFB	90.5	15-244		%Rec	1	10/14/2023 4:05:53 AM	78113
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	10/14/2023 4:05:53 AM	78113
Toluene	ND	0.047		mg/Kg	1	10/14/2023 4:05:53 AM	78113
Ethylbenzene	ND	0.047		mg/Kg	1	10/14/2023 4:05:53 AM	78113
Xylenes, Total	ND	0.093		mg/Kg	1	10/14/2023 4:05:53 AM	78113
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	10/14/2023 4:05:53 AM	78113

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	H	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range Estimated Value
	H	Holding times for preservation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	DD	Practical Quantitation Limit	RL	Reporting Limit
	S	% Recovers outside of standard limits. If undiluted results may be estimated		

## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP18

Project: Snapping 2 State 611

Collection Date: 10/10/2023 10:00:00 AM

Lab ID: 2310583-003

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	10/17/2023 12:48:44 AM	78189
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	15	9.9		mg/Kg	1	10/13/2023 7:17:10 PM	78128
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/13/2023 7:17:10 PM	78128
Surr: DNOP	129	69-147		%Rec	1	10/13/2023 7:17:10 PM	78128
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/14/2023 4:29:19 AM	78113
Surr: BFB	93.4	15-244		%Rec	1	10/14/2023 4:29:19 AM	78113
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/14/2023 4:29:19 AM	78113
Toluene	ND	0.050		mg/Kg	1	10/14/2023 4:29:19 AM	78113
Ethylbenzene	ND	0.050		mg/Kg	1	10/14/2023 4:29:19 AM	78113
Xylenes, Total	ND	0.10		mg/Kg	1	10/14/2023 4:29:19 AM	78113
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/14/2023 4:29:19 AM	78113

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	Above Quantitation Range Estimated Value
	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
	PL	Practical Quantitation Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated		

## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP19

Project: Snapping 2 State 611

Collection Date: 10/10/2023 10:10:00 AM

Lab ID: 2310583-004

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	10/17/2023 1:01:08 AM	78189
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	15	9.4		mg/Kg	1	10/13/2023 3:56:20 PM	78148
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/13/2023 3:56:20 PM	78148
Surr: DNOP	88.4	69-147		%Rec	1	10/13/2023 3:56:20 PM	78148
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/16/2023 12:10:00 PM	78126
Surr: BFB	99.0	15-244		%Rec	1	10/16/2023 12:10:00 PM	78126
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	10/16/2023 12:10:00 PM	78126
Toluene	ND	0.047		mg/Kg	1	10/16/2023 12:10:00 PM	78126
Ethylbenzene	ND	0.047		mg/Kg	1	10/16/2023 12:10:00 PM	78126
Xylenes, Total	ND	0.095		mg/Kg	1	10/16/2023 12:10:00 PM	78126
Surr: 4-Bromofluorobenzene	87.7	39.1-146		%Rec	1	10/16/2023 12:10:00 PM	78126

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

<b>Qualifiers:</b>	+	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected in the Reporting Limit	P	Sample pH Not In Range
	(M) L	Practical Quantitation Limit	RL	Reporting Limit
	S	% Recovers outside of standard limits. If undiluted results may be calculated		

## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP20

Project: Snapping 2 State 6H

Collection Date: 10/10/2023 10:41:00 AM

Lab ID: 2310583-005

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: SNS
Chloride	ND	60		mg/Kg	20	10/17/2023 1:13:33 AM	78189
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/13/2023 4:06:58 PM	78148
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/13/2023 4:06:58 PM	78148
Surr: DNOP	83.4	69-147		%Rec	1	10/13/2023 4:06:58 PM	78148
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/16/2023 1:15:00 PM	78126
Surr: BFB	95.6	15-244		%Rec	1	10/16/2023 1:15:00 PM	78126
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	10/16/2023 1:15:00 PM	78126
Toluene	ND	0.050		mg/Kg	1	10/16/2023 1:15:00 PM	78126
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2023 1:15:00 PM	78126
Xylenes, Total	ND	0.099		mg/Kg	1	10/16/2023 1:15:00 PM	78126
Surr: 4-Bromofluorobenzene	85.7	39.1-146		%Rec	1	10/16/2023 1:15:00 PM	78126

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

Qualifiers:	-	Value exceeds Maximum Contaminant Level	U	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	F	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PD	Practical Quantitation Limit	R	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated		

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2310583

Date Reported: 10/24/2023

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP21**Project:** Snapping 2 State 6H**Collection Date:** 10/10/2023 10:50:00 AM**Lab ID:** 2310583-006**Matrix:** SOIL**Received Date:** 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 8:42:41 AM	78204
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	13	9.3		mg/Kg	1	10/13/2023 4:17:40 PM	78148
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/13/2023 4:17:40 PM	78148
Surr: DNOP	90.7	69-147		%Rec	1	10/13/2023 4:17:40 PM	78148
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/16/2023 2:20:00 PM	78126
Surr: BFB	101	15-244		%Rec	1	10/16/2023 2:20:00 PM	78126
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	10/16/2023 2:20:00 PM	78126
Toluene	ND	0.050		mg/Kg	1	10/16/2023 2:20:00 PM	78126
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2023 2:20:00 PM	78126
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2023 2:20:00 PM	78126
Surr: 4-Bromofluorobenzene	85.1	39.1-146		%Rec	1	10/16/2023 2:20:00 PM	78126

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

Qualifiers:			
*	Value exceeds Maximum Contaminant Level	Ⓡ	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Ⓡ	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	Ⓡ	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	Ⓡ	Sample pH Not In Range
PQL	Practical Quantitation Limit	Ⓡ	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated		



## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP22

Project: Snapping 2 State 611

Collection Date: 10/10/2023 10:40:00 AM

Lab ID: 2310583-007

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	390	60		mg/Kg	20	10/18/2023 8:55:05 AM	78204
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	91	9.5		mg/Kg	1	10/13/2023 4:28:16 PM	78148
Motor Oil Range Organics (MRO)	180	48		mg/Kg	1	10/13/2023 4:28:16 PM	78148
Surr: DNOP	89.4	69-147		%Rec	1	10/13/2023 4:28:16 PM	78148
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2023 2:42:00 PM	78126
Surr: BFB	97.7	15-244		%Rec	1	10/16/2023 2:42:00 PM	78126
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 2:42:00 PM	78126
Toluene	ND	0.048		mg/Kg	1	10/16/2023 2:42:00 PM	78126
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2023 2:42:00 PM	78126
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2023 2:42:00 PM	78126
Surr: 4-Bromofluorobenzene	87.8	39.1-146		%Rec	1	10/16/2023 2:42:00 PM	78126

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	F	Analyte detected below quantitation limit
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	LOL	Practical Quantitation Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. Doubtful result may be estimated		

## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP23

Project: Snapping 2 State GH

Collection Date: 10/10/2023 10:40:00 AM

Lab ID: 2310583-008

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 9:07:30 AM	78204
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	29	9.9		mg/Kg	1	10/13/2023 4:39:00 PM	78148
Motor Oil Range Organics (MRO)	86	50		mg/Kg	1	10/13/2023 4:39:00 PM	78148
Surr: DNOP	96.1	69-147		%Rec	1	10/13/2023 4:39:00 PM	78148
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2023 3:04:00 PM	78126
Surr: BFB	102	15-244		%Rec	1	10/16/2023 3:04:00 PM	78126
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 3:04:00 PM	78126
Toluene	ND	0.048		mg/Kg	1	10/16/2023 3:04:00 PM	78126
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2023 3:04:00 PM	78126
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2023 3:04:00 PM	78126
Surr: 4-Bromofluorobenzene	91.0	39.1-146		%Rec	1	10/16/2023 3:04:00 PM	78126

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	Above Quantitation Range Estimated Value
H	Holding times for preparation or analysis exceeded	F	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
QD	Practical Quantitation Limit	PH	Reporting Limit
S	% Recovery outside of critical limits. If published results may be estimated		

## Analytical Report

Lab Order 2310583

Date Reported: 10/24/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP24

Project: Snapping 2 State 6H

Collection Date: 10/10/2023 10:40:00 AM

Lab ID: 2310583-009

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 9:19:54 AM	78204
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	21	9.6		mg/Kg	1	10/13/2023 4:49:39 PM	78148
Motor Oil Range Organics (MRO)	69	48		mg/Kg	1	10/13/2023 4:49:39 PM	78148
Surr: DNOP	94.6	69-147		%Rec	1	10/13/2023 4:49:39 PM	78148
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/16/2023 3:25:00 PM	78126
Surr: BFB	94.5	15-244		%Rec	1	10/16/2023 3:25:00 PM	78126
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	10/16/2023 3:25:00 PM	78126
Toluene	ND	0.049		mg/Kg	1	10/16/2023 3:25:00 PM	78126
Ethylbenzene	ND	0.049		mg/Kg	1	10/16/2023 3:25:00 PM	78126
Xylenes, Total	ND	0.098		mg/Kg	1	10/16/2023 3:25:00 PM	78126
Surr: 4-Bromofluorobenzene	84.7	39.1-146		%Rec	1	10/16/2023 3:25:00 PM	78126

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

Qualifiers:			
M	Value exceeds Maximum Contaminant Level	B	Analyte detected in the approved Method Unal.
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	F	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
LOL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If modified results may be generated		

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310583

24-Oct-23

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H

Sample ID: MB-78189	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78189	RunNo: 100517								
Prep Date: 10/16/2023	Analysis Date: 10/16/2023	SeqNo: 3684270      Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: LCS-78189	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78189	RunNo: 100517								
Prep Date: 10/16/2023	Analysis Date: 10/16/2023	SeqNo: 3684271 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.1	90	110			

Sample ID: MB-78204	SampType:•MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78204	RunNo: 100553								
Prep Date: 10/17/2023	Analysis Date: 10/17/2023	SeqNo: 3685461 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78204	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78204		RunNo: 100553							
Prep Date: 10/17/2023	Analysis Date: 10/17/2023		SeqNo: 3685462		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

## Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	L Above Quantitation Range/Estimated Value
H Holding times for preparation or analysis exceeded	T Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not in Range
PL Practical Quantitation Limit	RI Reporting Limit
S % Recovery outside of control limits. If and how results may be estimated	

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310583

24-Oct-23

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H

Sample ID: MB-78128	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78128	RunNo: 100449								
Prep Date: 10/12/2023	Analysis Date: 10/13/2023	SeqNo: 3680072 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	69	147			

Sample ID: LCS-78128	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78128	RunNo: 100449								
Prep Date: 10/12/2023	Analysis Date: 10/13/2023	SeqNo: 3680073 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	61.9	130			
Surr: DNOP	4.6		5.000		92.5	69	147			

Sample ID: LCS-78148	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78148	RunNo: 100445								
Prep Date: 10/13/2023	Analysis Date: 10/13/2023	SeqNo: 3681185 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	61.9	130			
Surr: DNOP	3.8		5.000		76.5	69	147			

Sample ID: MB-78148	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78148	RunNo: 100445								
Prep Date: 10/13/2023	Analysis Date: 10/13/2023	SeqNo: 3681186 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	8.4		10.00		83.9	69	147			

Sample ID: 2310583-003AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP18	Batch ID: 78128	RunNo: 100449								
Prep Date: 10/12/2023	Analysis Date: 10/13/2023	SeqNo: 3681275 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	9.2	46.17	15.21	107	54.2	135			
Surr: DNOP	5.4		4.617		117	69	147			

## Qualifiers:

- (+) Value exceeds Maximum Contaminant Level
- (D) Sample Diluted Due to Matrix
- (H) Holding time for preparation or analysis exceeded
- (ND) Not Detected at the Reporting Limit
- (PQL) Practical Quantitation Limit
- (S) Recovery outside of standard range; if published results are to be estimated
- (B) Analyte detected in the associated Method Blank
- (E) Above Quantitation Range/Estimated Value
- (F) Analyte detected below quantitation limits
- (P) Sample pH Not in Range
- (RI) Resonance Limit



## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310583

24-Oct-23

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H

Sample ID: 2310583-003AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP18	Batch ID: 78128	RunNo: 100449								
Prep Date: 10/12/2023	Analysis Date: 10/13/2023	SeqNo: 3681276 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.4	46.86	15.21	74.0	54.2	135	26.0	29.2	
Surr: DNOP	3.9		4.686		83.8	69	147	0	0	

Sample ID: LCS-78278	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78278	RunNo: 100627								
Prep Date: 10/20/2023	Analysis Date: 10/20/2023	SeqNo: 3689327 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.4	69	147			

Sample ID: MB-78278	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78278	RunNo: 100627								
Prep Date: 10/20/2023	Analysis Date: 10/20/2023	SeqNo: 3689331 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		85.9	69	147			

Sample ID: 2310583-008AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP23	Batch ID: 78278	RunNo: 100627								
Prep Date: 10/20/2023	Analysis Date: 10/20/2023	SeqNo: 3689688 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		4.425		87.6	69	147			

Sample ID: 2310583-008AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP23	Batch ID: 78278	RunNo: 100627								
Prep Date: 10/20/2023	Analysis Date: 10/20/2023	SeqNo: 3689689 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		4.748		95.0	69	147	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Delayed Due to Status
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If validated results may be obtained
- B Analyte detected in the estimated Method Limit
- E Above Quantitation Range Estimated Value
- L Analyte detected below quantitation limits
- P Sample not in Range
- Rt Reporting Limit

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO# 2310583

24-Oct-23

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H

Sample ID: lcs-78113	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 78113	RunNo: 100442								
Prep Date: 10/12/2023	Analysis Date: 10/13/2023	SeqNo: 3679822 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.1	70	130			
Surr: BFB	2000		1000		201	15	244			

Sample ID: mb-78113	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78113	RunNo: 100442								
Prep Date: 10/12/2023	Analysis Date: 10/13/2023	SeqNo: 3679823 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		93.8	15	244			

Sample ID: lcs-78126	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 78126	RunNo: 100497								
Prep Date: 10/12/2023	Analysis Date: 10/16/2023	SeqNo: 3683197 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	70	130			
Surr: BFB	2200		1000		218	15	244			

Sample ID: 2310583-004ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SP19	Batch ID: 78126	RunNo: 100497								
Prep Date: 10/12/2023	Analysis Date: 10/16/2023	SeqNo: 3683199 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.76	0	99.6	70	130			
Surr: BFB	2100		950.6		217	15	244			

Sample ID: 2310583-004amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SP19	Batch ID: 78126	RunNo: 100497								
Prep Date: 10/12/2023	Analysis Date: 10/16/2023	SeqNo: 3683200 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.74	0	93.6	70	130	6.30	20	
Surr: BFB	2000		949.7		213	15	244	0	0	

Sample ID: mb-78126	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78126	RunNo: 100497								
Prep Date: 10/12/2023	Analysis Date: 10/16/2023	SeqNo: 3683213 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

## Qualifiers:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>⊕ Value exceeds Maximum Contaminant Level</li> <li>⊖ Sample Diluted Due to Matrix</li> <li>⊗ Holding time for preparation or analysis exceeded</li> <li>⊘ Not Detected at the Reporting Limit</li> <li>⊙ Practical Quantitation Limit</li> <li>⊛ % Recovery outside of standard limits. If indicated results are to be compared</li> </ul> | <ul style="list-style-type: none"> <li>⊙ Analyte detected in the associated Method Blank</li> <li>⊙ Above Quantitation Range/Exceeded Value</li> <li>⊙ Analyte detected below quantitation limit</li> <li>⊙ Sample pH Not in Range</li> <li>⊙ Reporting Limit</li> </ul> |
|---|--|

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

WO#: 2310583

24-Oct-23

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H

Sample ID: mb-78126	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78126	RunNo: 100497								
Prep Date: 10/12/2023	Analysis Date: 10/16/2023	SeqNo: 3683213			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	1000		1000		100	15	244			

**Qualifiers:**

* Value exceeds Maximum Contaminant Level	U Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	F Above Quantitation Range/Estimated Value
U 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
N % Recovery outside of standard limits. If undiluted results may be estimated	

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310583

24-Oct-23

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H

Sample ID: LCS-78113	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78113		RunNo: 100442							
Prep Date: 10/12/2023	Analysis Date: 10/13/2023		SeqNo: 3679825		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.4	70	130			
Toluene	0.99	0.050	1.000	0	98.8	70	130			
Ethylbenzene	0.99	0.050	1.000	0	98.7	70	130			
Xylenes, Total	3.0	0.10	3.000	0	100	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	39.1	146			

Sample ID: mb-78113	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78113			RunNo: 100442						
Prep Date: 10/12/2023	Analysis Date: 10/13/2023			SeqNo: 3679826			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		102	39.1	146			

Sample ID: lcs-78126	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78126			RunNo: 100497						
Prep Date: 10/12/2023	Analysis Date: 10/16/2023			SeqNo: 3683164			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.5	70	130			
Toluene	0.87	0.050	1.000	0	87.0	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.2	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	39.1	146			

Sample ID: mmb-78126	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78126		RunNo: 100497							
Prep Date: 10/12/2023	Analysis Date: 10/16/2023		SeqNo: 3683165		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	0.92		1.000		91.5	39.1	146			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level                                     | H Analyte detected in the associated Method Blank |
| B Sample Dated Due to Matrix  | E Above Quantitation Range (Exceeded Value)       |
| H Holding times for preparation or analysis exceeded                          | I Analyte detected below quantitation limits      |
| ND Not Detected in the Reporting Limit  | P Sample pH Not in Range                          |
| PQL Practical Quantitation Limit  | RL Reporting Limit                                |
| R % Recovery outside of standard limits. If modified results may be confirmed |   |

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310583

24-Oct-23

Client: Safety &amp; Environmental Solutions

Project: Snapping 2 State 6H

Sample ID: 2310583-005ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: SP20		Batch ID: 78126		RunNo: 100497						
Prep Date: 10/12/2023		Analysis Date: 10/16/2023		SeqNo: 3683168			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	0.9930	0	82.7	70	130			
Toluene	0.85	0.050	0.9930	0	85.5	70	130			
Ethylbenzene	0.88	0.050	0.9930	0	88.4	70	130			
Xylenes, Total	2.6	0.099	2.979	0	88.3	70	130			
Surr: 4-Bromofluorobenzene	0.87		0.9930		87.7	39.1	146			

Sample ID: 2310583-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SP20	Batch ID: 78126			RunNo: 100497						
Prep Date: 10/12/2023	Analysis Date: 10/16/2023			SeqNo: 3683169		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9921	0	82.0	70	130	0.926	20	
Toluene	0.84	0.050	0.9921	0	84.7	70	130	1.08	20	
Ethylbenzene	0.88	0.050	0.9921	0	88.9	70	130	0.399	20	
Xylenes, Total	2.6	0.099	2.976	0	88.8	70	130	0.493	20	
Surr: 4-Bromofluorobenzene	0.88		0.9921		89.1	39.1	146	0	0	

## Qualifiers:

- A Value exceeds Maximum Contaminant Level
- B Sample Muted Due to Matrix
- U Holding time for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S % Recovery outside of standard limits. If muted results may be estimated
- D Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limit
- P Sample pH Not In Range
- RI Reporting Limit





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

## Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2310583

ReptNo: 1

Received By: Tracy Casarrubias 10/12/2023 7:30:00 AM

Completed By: Choyenne Cason 10/12/2023 7:34:17 AM

Reviewed By: *JA* 10-12-23

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  $6.0^{\circ}\text{C}$ ? 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: *JA 10/12/23*

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	4.0	Good	Not Present	Yogi		

## Chain-of-Custody Record

Turn-Around Time:		Standard <input checked="" type="checkbox"/> Rush <input checked="" type="checkbox"/> Day	
Project Name:		Shipping & State Lab	
Project #:		DEV-19-004	
Project Manager:		Bob Allen	
Sampler: <u>Hyden Ade</u>		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>40g</u>	
# of Coolers: <u>1</u>		Cooler Temp (including off): <u>40-0-40</u> (°C)	
Container Type and #		Preservative Type	HEAL No.
4oz Jar 1 ICE			2310583
Date	Time	Matrix	Sample Name
9/10/23	08:34	S	SP16
	09:07		C.S. 17
	10:00		SP18
	10:10		SP19
	10:41		SP20
	10:50		SP21
	10:40		SP22
	10:40		SP23
	10:40	<input checked="" type="checkbox"/>	SP24
Date:	Time:	Relinquished by:	
9/10/23	07:00	Hyden Ade	
Date:	Time:	Relinquished by:	
9/10/23	07:00	Hyden Ade	



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

Remarks: barley@sesi-nm.com  
mshane@sesi-nm.com  
halde@sesi-nm.com  
dlooper@sesi-nm.com  
 Bill Devon  
 Directly

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This service is provided at the discretion of Hall Environmental. Any sub-contracted data will be clearly notated on the analytical report.



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

August 14, 2024

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: SNAPPING 6 AND 7

Enclosed are the results of analyses for samples received by the laboratory on 08/08/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Caley D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/08/2024  
 Reported: 08/14/2024  
 Project Name: SNAPPING 6 AND 7  
 Project Number: DEV-19-004  
 Project Location: DEVON

Sampling Date: 08/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH - 6 - H - A - 6" (H244806-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2024	ND	2.06	103	2.00	0.178	
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769	
Total BTX	<0.300	0.300	08/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/12/2024	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/08/2024  
 Reported: 08/14/2024  
 Project Name: SNAPPING 6 AND 7  
 Project Number: DEV-19-004  
 Project Location: DEVON

Sampling Date: 08/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH - 7 - H - A - 6" (H244806-02)**

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2024	ND	2.06	103	2.00	0.178	
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769	
Total BTEX	<0.300	0.300	08/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	87.0	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	56.8	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/08/2024  
 Reported: 08/14/2024  
 Project Name: SNAPPING 6 AND 7  
 Project Number: DEV-19-004  
 Project Location: DEVON

Sampling Date: 08/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH - 9 - H - A - 6" (H244806-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2024	ND	2.06	103	2.00	0.178	
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769	
Total BTEX	<0.300	0.300	08/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/08/2024  
 Reported: 08/14/2024  
 Project Name: SNAPPING 6 AND 7  
 Project Number: DEV-19-004  
 Project Location: DEVON

Sampling Date: 08/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH - 10 - H - A - 6" (H244806-04)**

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2024	ND	2.06	103	2.00	0.178	
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769	
Total BTEX	<0.300	0.300	08/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/08/2024  
 Reported: 08/14/2024  
 Project Name: SNAPPING 6 AND 7  
 Project Number: DEV-19-004  
 Project Location: DEVON

Sampling Date: 08/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH - 11 - H - A - 6" (H244806-05)**

BTEX 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2024	ND	2.06	103	2.00	0.178		
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769		
Total BTEX	<0.300	0.300	08/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	58.0	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	34.7	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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\* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

---

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Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

[illegible]





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

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February 28, 2025

ARMANDO AGUIRRE

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: SNAPPING 2 ST. #006H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/24/2025  
 Reported: 02/28/2025  
 Project Name: SNAPPING 2 ST. #006H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH - 7 - 1 -H1 (H251080-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	207	103	200	2.78	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.6	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





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

---

March 10, 2025

ARMANDO AGUIRRE

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: SNAPPING 2 ST. #006H

Enclosed are the results of analyses for samples received by the laboratory on 03/07/25 16:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	03/07/2025	Sampling Date:	03/07/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	SNAPPING 2 ST. #006H	Sampling Condition:	** (See Notes)
Project Number:	DEV-19-004	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: SP - 22 (H251378-01)**

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62	
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02	
Total BTEX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/10/2025	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2025	ND	210	105	200	5.06	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	200	100	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.1 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/07/2025  
 Reported: 03/10/2025  
 Project Name: SNAPPING 2 ST. #006H  
 Project Number: DEV-19-004  
 Project Location: NONE GIVEN

Sampling Date: 03/07/2025  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Alyssa Parras

**Sample ID: SP - 23 (H251378-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEx	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/10/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2025	ND	210	105	200	5.06	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	200	100	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.1 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

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Celey D. Keene, Lab Director/Quality Manager





District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production	Contact Production Foreman; Joah Weidemann
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575-513-1528
Facility Name Snapping 2 State 6H	Facility Type Oil

Surface Owner: State	Mineral Owner: State	API No. 30-015-39162
----------------------	----------------------	----------------------

### LOCATION OF RELEASE

Unit Letter O	Section 2	Township 26S	Range 31E	Feet from the 330	North/South Line South	Feet from the 2260	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude: 32.0657885N Longitude: 103.7475812W

### NATURE OF RELEASE

Type of Release Spill	Volume of Release 30BBLS	Volume Recovered 25BBLS
Source of Release pop off on the 3 phase separator	Date and Hour of Occurrence 11-24-2014 5:00 AM	Date and Hour of Discovery 11-24-2014 5:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos; BLM Heather Patterson; OCD	
By Whom? Lynn Smith; Assistant Production Foreman	Date and Hour 11-25-2014 @ 8:00 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*

The pop off valve on the 3 phase separator released 30BBLS of fluid on location due to a malfunction of the motor valve on the flare line. The fluid could not dump because the supply gas to the dump valve was frozen. The well was immediately shut in and the motor valve has been repaired.

Describe Area Affected and Cleanup Action Taken.\*

On the north central side of the location 30BBLS of oil was released affecting an area approximately 195' x 165'. The spill remained on location. 25BBLS were recovered via vacuum truck. The affected equipment has been pressure washed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Sandra Farley</i>	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Sandra Farley			
Title: Field Admin Support	Approved by Environmental Specialist:	Approval Date:	Expiration Date:
E-mail Address: Sandy.Farley@dvnm.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11-26-2014	Phone: 575.746.5587		

\* Attach Additional Sheets If Necessary



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**Santa Fe, NM 87505**

QUESTIONS

Action 441825

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 441825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAB1435732150
Incident Name	NAB1435732150 SNAPPING 2 STATE #006H @ 30-015-39162
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39162] SNAPPING 2 STATE #006H

**Location of Release Source**

Please answer all the questions in this group.

Site Name	SNAPPING 2 STATE #006H
Date Release Discovered	11/24/2014
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Valve   Crude Oil   Released: 30 BBL   Recovered: 25 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 441825

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 441825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 03/12/2025
--	---

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QUESTIONS, Page 3

Action 441825

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 441825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	8800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1160
GRO+DRO (EPA SW-846 Method 8015M)	390
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/18/2024
On what date will (or did) the final sampling or liner inspection occur	02/24/2025
On what date will (or was) the remediation complete(d)	03/07/2024
What is the estimated surface area (in square feet) that will be reclaimed	5879
What is the estimated volume (in cubic yards) that will be reclaimed	218
What is the estimated surface area (in square feet) that will be remediated	5879
What is the estimated volume (in cubic yards) that will be remediated	218

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 441825

**QUESTIONS (continued)**

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	Action Number: 441825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 03/12/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 441825

QUESTIONS (continued)

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	Action Number: 441825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6

Action 441825

**QUESTIONS (continued)**

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	Action Number: 441825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	433784
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/24/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	4

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5879
What was the total volume (cubic yards) remediated	217.9
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5879
What was the total volume (in cubic yards) reclaimed	218
Summarize any additional remediation activities not included by answers (above)	Remediation complete. Reclamation report to follow approval of 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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/12/2025
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Action 441825

QUESTIONS (continued)

Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:  6137
	Action Number:  441825
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 441825

**CONDITIONS**

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	Action Number: 441825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Remediation closure report is approved.	3/14/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/14/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/14/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/14/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/14/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/14/2025