Received by OCD: 1/11/2023 9:29:34 AM Form C-141 State of New Mexico

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Oil Conservation Division

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Incident ID	NRM2011449161
District RP	
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Site Assessment/Characterization

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?	<u>260 (</u> ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

eceived by OCD: 1/11/2	<i>2023 9:29:34 AM</i> State of New Mexico			Page 2 of 1
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			Application ID	
public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations.	re required to report and/or file certain release r nment. The acceptance of a C-141 report by th igate and remediate contamination that pose a t of a C-141 report does not relieve the operator Dale Woodall	e OCD does not relieve the hreat to groundwater, surfa	e operator of liability shuce water, human health liance with any other fee	ould their operations have or the environment. In
Signature: Dale U	Voodall	Date: <u>1/11/2023</u>		
email: <u>Dale.Woodal</u>	l@dvn.com	Telephone: <u>575-</u>	748-1838	
OCD Only Received by: Joc	elyn Harimon	Date:1/1	1/2023	

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Oil Conservation Division

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Dale Woodall Title: Env. Professional Signature: Dale Woodall Date: <u>1/11/2023</u> Telephone: 575-748-1838 email: Dale.Woodall@dvn.com **OCD Only** Received by: Jocelyn Harimon Date: 1/11/2023 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _____ Date: _____ Title: Printed Name:



Souder, Miller & Associates•201 S. Halagueno St.•Carlsbad, NM 88220 (575) 689-8801

October 19, 2020

#5E29133 BG-18

NMOCD District 1 1625 N. French Dr Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Rattlesnake 13-12 Fed #001H Release (30-025-40912), Lea, New Mexico

To Whom it May Concern:

On behalf of Devon Energy Production Company (Devon), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Rattlesnake 13-12 Fed #001H site. The site is in Unit P, Section 13, Township 26S Range 34E, Lea County, New Mexico, on federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

	Table 1: Release Information and Closure Criteria						
Name	Rattlesnake 13-12 Fed #001H	Company	Devon Energy Production Company				
API Number	30-025-40912	Location	32.037028, -103.416114				
Incident Number	Ν	NRM2011449161					
Estimated Date of Release	4/17/2020	Date Reported to NMOCD	4/17/2020				
Land Owner	Federal	Reported To	NMOCD, BLM				
Source of Release	2 phase separator swamped out causing fluid to release from the flare.						
Released Volume	24.1 BBLS	Released Material	Crude Oil				
Recovered Volume	4 BBLS	Net Release	20.1 BBLS				
NMOCD Closure Criteria	<50 feet to groundwater						
SMA Response Dates	5/7/2020, 6/11/2020, 7/22-23/2020, 7/28/2020, 9/9/2020						

Table 1 summarizes release information and Closure Criteria.

1.0 Background

On April 17, 2020, a release was discovered at the Rattlesnake 13-12 Fed #001H site due to the 2-phase separator swamping out causing crude oil to release from the flare. Initial response activities were conducted by Devon personnel and included source elimination activities, which recovered approximately 4 barrels of crude oil. Figure 1 illustrates the vicinity and site location, Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Rattlesnake 13-12 Fed #001H is an active production facility located approximately 14 miles southwest from Jal, New Mexico on Federal (BLM) land at an elevation of approximately 3232 feet above mean sea level (amsl).

Depth to Groundwater

Based upon data from New Mexico Office of the State Engineer (NMOSE) (Appendix B), depth to groundwater in the area is estimated to be 240 feet below grade surface (bgs).

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed water source, located approximately one mile southeast from the site.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Due to the lack of supportable groundwater data within $\frac{1}{2}$ mile of the site, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

3.0 Release Characterization and Remediation Activities

On May 7, 2020 and June 11, 2020, SMA personnel performed site delineation activities at the Rattlesnake 13-12 Fed #001H site. SMA collected soil samples around the release site and throughout the visibly stained area. The areas of visual impact were located partially within the boundary of the developed production facility, and partially in the pasture. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of 6 sample locations (L1-L8, S1-S3, and SW1-SW4) were investigated using a hand-auger, to depths up to 5 feet bgs. At least one sample was collected at each sampling location and field-screened using the methods above. A total of 45 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

As summarized in Table 3, results indicated that an area approximately 8700 square feet at depths varying from 0.5 to 7 feet deep had been impacted.

On July 22- 23, and July 28, 2020, SMA returned to the site to guide the excavation of contaminated soil. SMA guided the excavation activities by collecting soil samples for field screening. Samples were

Rattlesnake 13-12 Fed #001H Remediation Closure Report October 19, 2020

screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. Due to the large area of the excavation, SMA submitted an alternate sampling plan, and between July 23, and September 4, 2020 clarifications and modifications to that plan were negotiated with NMOCD.

Upon approval from NMOCD of the alternate sampling plan (email dated September 4, 2020), and following proper notification requirements, SMA collected confirmation samples from the walls and base of the excavation on September 9, 2020. The area representing initial sample locations S1-S2 and L5-L8 was excavated to a depth of 0.5 feet bgs, the area representing sample location L4 was excavated to a depth of 3 feet bgs, the area representing sample location S3 was excavated to a depth of 1 foot bgs, the area representing sample location L3 was excavated to a depth of 2 feet bgs, the area representing sample location L1 was excavated to a depth of 6 feet bgs, the area representing sample location L2 was excavated to a depth of 4 feet bgs.

Confirmation samples were comprised of five-point composites of the base at each excavation depth (CS1-CS26) and walls (SW1-SW10). The confirmation samples were collected from within the excavated areas in accordance with the approved alternate systematic sampling approach, as defined by SW846 using Gilbert, 1987 equation 5.2.3 for Stratified Random Sampling (Appendix C). This systematic method meets the EPAs data quality assessment standards (DQA) for composite sampling. A photo log of the open excavation can be found in Appendix E.

A total of 36 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Figure 3 shows the extent and depths of the final excavation, as well as initial and closure sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

4.0 Site Recommendations

As demonstrated in Table 3, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at Northern Delaware Basin Landfill, near Jal, NM, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number NRM2011449161.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

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Rattlesnake 13-12 Fed #001H Remediation Closure Report October 19, 2020

If there are any questions regarding this report, please contact either Ashely Maxwell at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:



hauna Chubbuck

Ashley Maxwell Project Manager

Shawna Chubbuck Senior Scientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 10/7/2020

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Sample Location and Excavation Depths Map

Tables:

Table 2: NMOCD Closure Criteria Justification Table 3a: Summary of Sample Results (Initial Samples) Table 3b: Summary of Sample Results (Closure Samples)

Appendices:

Appendix A: Form C141 Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol and Field Notes Appendix D: Laboratory Analytical Reports Appendix E: Photo Log

FIGURES





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TABLES

Table 2: NMOCD Closure Criteria

.

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	240	NMOSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	-	-
Hortizontal Distance to Nearest Significant Watercourse (ft)	5,280	USGS

Closure Criteria (19.15.2	29.12.B(4) and	d Table 1 NMAC)				
	Closure Criteria (units in mg/kg)					
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene	
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake?	No No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal						
fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No	ļ				
within a 100-year floodplain?	No					

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Table 3: Sample Results Devon Energy Rattlesnake 13- 12 FED 1H NRM2011449161

		Double of Councils	Proposed	Metho	od 8021B		Metho	d 8015D		Method 300.0
Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD Clos	sure Criteria (>4 ft)		50	10				100	600
				P	asture					
		Surface		<1.08	<0.12	43	18,000	15,000	33,043	21,000
	5/7/2020	1		<0.221	<0.025	<4.9	<9.8	<49	<63.7	5,300
		1.5		<0.215	<0.024	<4.8	<9.5	<48	<62.3	6,400
L1		2	Excavate	<0.220	<0.024	<4.9	15	<47	15	3,300
	6/11/2020	3		<0.219	<0.024	<4.9	<45	<9.1	<59	8,700
	0, 11, 2020	4		<0.224	<0.025	<5.0	<9.6	<48	<62.9	6,600
		5		<0.216	<0.024	<4.8	<9.9	<50	<64.7	3,400
	_ /_ /	Surface		<0.222	<0.025	<4.9	8,500	7,200	15,700	7,600
	5/7/2020	1		<0.222	<0.025	<4.9	<9.4	<47	<61.3	4,700
L2		1.5	Excavate	<0.221	<0.025	<4.9	<10	<50	<64.9	4,900
	C/11/2020	2		<0.208	<0.023	<4.6	2400	1600	4000	10,000
	6/11/2020	3		<0.220	<0.024	<4.9	39	<48	39	2,900
		4		< 0.219	<0.024	<4.9	< 9.9	<49	<63.8	150
L3	5/7/2020	Surface	Excavate	2.45	<0.12	78 6	15,000	9,900	24,978	21,000
LS	5/7/2020	1 2	In citu	<0.222 <0.219	<0.025 <0.024	<4.9	660 <9.4	460 <47	1,126 <61.3	5,500 120
		Surface	In-situ	13.6	< 0.024					
	5/7/2020	1	Excavate	<0.221	<0.024	<u>160</u> 5.4	3,400 620	2,500 500	6,060 1,125.40	10,000 7,300
	5/7/2020	1.5	EXCOVOLE	<0.221	<0.023	<4.9	16	<48	1,123.40	
L4		3	In-situ	<0.220	<0.024	<4.9	10	<46	10	4,000 440
	6/11/2020	4	III-SILU	<0.222	<0.025	<5.0	12	<46	12	5,500
	0/11/2020	5	In-situ	<0.224	< 0.025	<4.9	<10	<50	<64.9	140
		5	in situ		/ell Pad		10	100	NOT.5	140
		Surface	Excavate	0.407	< 0.025	9.1	8,900	6,900	15809.1	27,000
L5	5/7/2020	1	In-situ	< 0.216	< 0.024	<4.8	22	<48	22	250
		Surface	Excavate	<0.224	< 0.025	<5.0	5,000	4,900	9,900	10,000
L6	5/7/2020	0.5	In-situ	<0.225	< 0.025	<5.0	11	<46	11	390
		Surface		< 0.221	< 0.025	<4.9	11,000	12,000	23,000	50,000
L7	5/7/2020	0.5	Excavate	<0.220	< 0.024	<4.9	190	120	310	1,600
	6/11/2020	1	In-situ	<0.220	< 0.024	<4.9	<9.5	<48	<62.4	<60
		Surface		0.461	< 0.025	15	17,000	16,000	33,015	5,800
L8	5/7/2020	0.5	Excavate	<0.224	<0.025	<5.0	120	98	218	<60
		1	In-situ	<0.222	<0.025	<4.9	<9.8	<49	<63.7	<60
64	<i>г /д /</i> 2022	Surface	Excavate	<0.219	<0.024	<4.9	3,400	3,300	6,700	16,000
S1	5/7/2020	0.5	In-situ	<0.219	<0.024	<4.9	<9.5	<48	<62.4	78
6.2	E /7 /2020	Surface	Excavate	<0.221	<0.025	<4.9	380	460	840	6,000
S2	5/7/2020	0.5	In-situ	<0.225	<0.025	<5.0	<9.8	<49	<63.8	<60
	5/7/2020	Surface	Excounto	<0.224	<0.025	<5.0	570	890	1,460	17,000
S3 5/7/2020	5/7/2020	0.5	Excavate	<0.222	<0.025	<4.9	<10	<50	<64.9	1,100
	6/11/2020	1'	In-situ	<0.220	<0.024	<4.9	<9.4	<47	<61.3	<60
SW1	5/7/2020	Surface	Excavate	<0.222	<0.025	<4.9	21	<47	21	1,300
JVVI	6/11/2020	Surface	In-situ	<0.220	<0.024	<4.9	<9.9	<50	<64.8	<59
SW2	5/7/2020	Surface	In-situ	<0.222	<0.025	<4.9	25	<49	25	120
CIA/2	E /7 /2020	Surface	Excavate	<0.225	<0.025	<5.0	40	54	94	1,600
SW3	5/7/2020	Surface	In-situ	<0.220	<0.025	<4.9	<9.2	<46	<60.1	<60
SW4	5/7/2020	Surface	In-situ	<0.222	<0.025	<4.9	<9.9	49	49	230
SW5	5/7/2020	Surface	In-situ	<0.221	<0.025	<4.9	16	<49	16	570

"--" = Not Analyzed

Devon Energy Rattlesnake 13- 12 FED 1H NRM2011449161

		Depth of	Proposed	Metho	d 8021B		Methor	1 8015D		Method 300.0	
Sample ID	Sample Date	Sample (feet bgs)	Action Taken	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-	
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
NM	OCD Closure	e Criteria (>4	4 ft)	50	10				100	600	
				Confirma	tion Sampli	ng Event					
CS1				<0.224	<0.025	<5.0	<9.4	<47	<61	<60	
CS2				<0.224	<0.025	<4.9	<9.3	<46	<60.2	<59	
CS3				<0.220	<0.024	<4.9	<9.6	<48	<62.5	<59	
CS4				<0.221	<0.025	<4.9	<9.3	<47	<61.2	<60	
CS5				<0.222	<0.025	<4.9	<9.3	<46	<60.2	<60	
CS6				<0.221	<0.025	<4.9	<9.8	<49	<63.7	<60	
CS7				<0.225	<0.025	<5.0	<9.5	<47	<61.5	<59	
CS8				<0.219	<0.024	<4.9	<9.6	<48	<63	<60	
CS9		0.5		<0.224	<0.025	<5.0	<9.4	<47	<61.4	<60	
CS10		0.5		<0.219	<0.024	<4.9	<9.8	<49	<63.7	<60	
CS11				<0.219	<0.024	<4.9	<9.8	<49	<63.7	<60	
CS12				<0.222	<0.025	<4.9	<9.4	<47	<61.3	<60	
CS13				<0.224	<0.025	<5.0	<9.8	<49	<63.8	<60	
CS14					<0.222	<0.025	<4.9	<9.7	<48	<63	<60
CS15				<0.221	<0.025	<4.9	<9.8	<49	<64	<60	
CS16				<0.219	<0.024	<4.9	<9.8	<49	<63.7	<60	
CS17				<0.222	<0.025	<4.9	<9.7	<48	<63	<60	
CS18	9/9/2020		In-Situ	<0.219	<0.024	<4.9	<9.6	<48	<62.5	<60	
CS19	9/9/2020	3	ทา-ราเน	<0.224	<0.025	<5.0	<9.6	<48	<62.6	<60	
CS20		1		<0.224	<0.025	<5.0	<9.6	<48	<62.6	<60	
CS21		2		<0.222	<0.025	<4.9	<9.2	<46	<60.1	<61	
CS22		6		<0.2174	<0.024	<4.8	<9.8	<49	<63.6	<61	
CS23		4		<0.222	<0.025	<4.9	<8.9	<45	<58.8	<59	
CS24		4		<0.221	<0.025	<4.9	<9.3	<47	<61.2	<59	
CS25		6		<0.224	<0.025	<5.0	<8.7	<43	<56.7	<60	
CS26		2		<0.221	<0.025	<4.9	<9.8	<49	<64	<60	
SW1		0-6		<0.225	<0.025	<5.0	<9.8	<49	<63.8	<60	
SW2		0-4		<0.225	<0.025	<5.0	<9.5	<47	<62	<61	
SW3		0-2		<0.221	<0.025	<4.9	<9.4	<47	<61.3	<61	
SW4		0-0.5		<0.220	<0.024	<4.9	<9.0	<45	<58.9	<60	
SW5		0-0.5		<0.221	<0.025	<4.9	<9.6	<48	<63	<60	
SW6		0-0.5		<0.225	<0.025	<5.0	<9.6	<48	<62.6	<60	
SW7		0-0.5		<0.217	<0.024	<4.8	<10	<50	<64.8	<60	
SW8		0-1		<0.222	<0.025	<4.9	<9.9	<49	<64	<60	
SW9		0-3		<0.224	<0.025	<5.0	<9.9	<50	<64.9	<60	
SW10		0-4		<0.224	<0.025	<5.0	<9.6	<48	<62.6	<60	

•

APPENDIX A FORM C141

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 Department**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

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Incident ID	NRM2011449161
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Longitude

Latitude	Longitude
	(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		1

Page	2
1 age	4

Oil Conservation Division

Incident ID	NRM2011449161
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

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.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name:	Title:
Signature: <u>Kendra DeHoyos</u>	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date:

Received by OCD: 1/11/2023 9:29:34 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 19 of 19.
Incident ID	NRM2011449161
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u>260 (</u> ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/11/2	23 9:29:34 AM State of New Mexico				Page 20 of 191
				Incident ID	NRM2011449161
Page 4	Oil Conservation Divis	sion		District RP	
				Facility ID	
				Application ID	
regulations all operators are public health or the environ failed to adequately investi	Joodall	se notifications a y the OCD does a threat to groun itor of responsibition Title: Date:	nd perform co not relieve the ndwater, surfa	prrective actions for rele e operator of liability sh- ce water, human health liance with any other fe essional	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:		1	Dates		
		<u> </u>			

Page 6

Oil Conservation Division

Incident ID	NRM2011449161
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Dale Woodall Title: Env. Professional Signature: Dale Woodall Date: <u>1/11/2023</u> email: Dale.Woodall@dvn.com Telephone: 575-748-1838 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _______ Jennifer Nobui ______ Date: ______ Date: ______ Printed Name: Jennifer Nobui Title: Environmental Specialist A

APPENDIX B NMOSE WELLS REPORT

	V	Vate							00	v	the State ge De	0		ter	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned, e is	I	```					7 2=NE est to lar	3=SW 4=SE gest) (N) AD83 UTM in n	neters)	(In fe	et)	
		POD Sub-		Q	Q	Q								v	Vater
POD Number	Code	basin	County	-	-	-	Sec	Tws	Rng	X	Y	DistanceDep	thWellDepth	Water Co	olum
<u>CP 01305 POD1</u>		СР	LE		1	4	31	25S	37E	655628	3551065 🌍	8145	420	230	19
C 02299		CUB	LE	4	2	4	24	25S	34E	649517	3554125 🌍	8488	350	300	:
C 03795 POD1		С	LE	4	4	3	24	26S	35E	658419	3544221 🌍	8976	496	250	24
<u>03442 POD1</u>		С	LE	4	1	2	06	26S	34E	641056	3550028 🌍	9566	251		
											Avera	ge Depth to Wate	r:	260 fee	et
												Minimum Dep	oth:	230 fee	et
												Maximum Dep	th:	300 fee	et
Record Count: 4															
UTMNAD83 Radius	<u>s Search (ii</u>	<u>1 meters)</u>) <u>:</u>												
Easting (X): 649	554.74		North	ning	(Y)	: 3	3545	636.71		1	Radius: 9600				

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.

10/7/20 1:07 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C SAMPLING PROTOCOL & FIELD NOTES



Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with EPA's Final Sampling Guidance for SW-846, 2002 sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of thirty-six (36) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

Engineering
 Environmental
 Surveying

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From:	Eads, Cristina, EMNRD
To:	Ashley Maxwell; Enviro, OCD, EMNRD
Cc:	Lynn Acosta; Bynum, Tom (Contract); Carrasco, Lupe
Subject:	RE: Rattlesnake 13-12 Fed Com 1H (NRM2011449161) Sampling Variance Request
Date:	Friday, September 4, 2020 12:04:18 PM
Attachments:	image001.png
	image005.png
	image008.png
	image030.png
	image032.png

Ashley,

Thank you for your following up on this email. And thank you for taking the time to answer all of my questions. This sampling plan is approved.

Please let me know if you have any questions.

Thanks,

Cristina Eads | 505-670-5601

From: Ashley Maxwell <ashley.maxwell@soudermiller.com>
Sent: Friday, September 4, 2020 11:28 AM
To: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>; Enviro, OCD, EMNRD
<OCD.Enviro@state.nm.us>
Cc: Lynn Acosta <lynn.acosta@soudermiller.com>; Bynum, Tom (Contract)
<Tom.Bynum@dvn.com>; Carrasco, Lupe <Lupe.Carrasco@dvn.com>
Subject: [EXT] RE: Rattlesnake 13-12 Fed Com 1H (NRM2011449161) Sampling Variance Request

Good Morning Ms. Eads,

I was wanting to touch base and see if you have been able to review our response back to your questions. The excavation is currently open, and I believe we are already working under an extension to complete the closure. Please feel free to contact me if you need additional information or have other questions.

Thanks, Ashley

Ashley Maxwell Project Scientist

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), ID Engineering/Surveying Firm (C-3564), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)



Souder, Miller & Associates Engineering ♦ Environmental ♦ Geomatics 401 W Broadway Farmington, New Mexico 87401 www.soudermiller.com





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From: Ashley Maxwell
Sent: Friday, August 14, 2020 2:38 PM
To: Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>; Enviro, OCD, EMNRD
<<u>OCD.Enviro@state.nm.us</u>>
Cc: Lynn Acosta <<u>lynn.acosta@soudermiller.com</u>>; Bynum, Tom (Contract)
<<u>Tom.Bynum@dvn.com</u>>; Carrasco, Lupe <<u>Lupe.Carrasco@dvn.com</u>>
Subject: RE: Rattlesnake 13-12 Fed Com 1H (NRM2011449161) Sampling Variance Request

Good Afternoon Ms. Eads,

Thank you for your response. I apologize for the delay in replying. Upon reviewing your questions, we realized that the ARCGIS collector app we use to collect data and create shapefiles from the field had significantly increased the square footage of the shapefile we used to input into the VSP Sampling Program. As a result, SMA returned to site on July 28, 2020 to collect actual site measurements. During this time, we collected excavation photos and created a photo log for your review. The photo log and the excavation measurements have been attached for your review. Your questions prompted us to reevaluate our approach using the VSP SDR and we conducted further research on inputting data regarding the analytes of concern (TPH, BTEX, and chlorides). Below I will address your questions with updated information.

A site characterization should be completed and findings of site characterization should be sent to the division for review, prior to evaluating this sample plan. I see that this sample plan includes the area, but what about the depth? How will sidewalls be addressed? The attached document named Excavated Area, contains the updated excavation measurements. The excavation ranges in depths of 0.5 to 7 feet below grade surface. Utilizing the VSP system, we entered a corrected shapefile for the excavation. Instead of entering a general standard deviation (Ph), we entered the regulatory limits for TPH (100 mg/kg), BTEX (50 mg/kg), and chlorides (600 mg/kg). For each of these analytes, the program projects the number of samples required for each analyte in order to meet the regulatory limits entered. These numbers vary by analyte. SMA is choosing to utilize the most stringent number of samples required and applying it to the analytical suite. This

well be further described in the bullet points below. In the attached document VSP Confirmation Sidewalls, ten (10) sidewall samples identified. Each sidewall sample is represented by an alternating set of five (5) points of triangles, circles, or squares. According to the SDR, the entire area to be sampled measures out to 12,366 m2. That is equivalent to 133,103 ft2. I'm not sure if that was a typo, but that leaves one composite sample to represent over 11,000 square feet, which will not be approved. There was an error in our original shapefile measurements. The app we use in the field relies on satellite data and can be distorted anywhere from 3 to 32 feet. Our field application data grossly misrepresented the actual excavation measurements. On July 28, 2020, we returned to site to collect actual field measurements. Using the corrected data, we were able to correct the shapefile used by the VSP SDR. The corrected data entered is approximately 8,706 square feet. Once again, we used the regulatory limits for TPH (100 mg/kg), BTEX (50 mg/kg), and chlorides (600 mg/kg) to determine the number of samples. The VSP SDR identifies that in order to meet closure criteria, twenty-six (26) base samples will need to be collected for total TPH of less than 100 mg/kg, where, BTEX and chloride sample numbers are determined to be 10 base samples. As mentioned in the above bullet point, SMA is choosing to be conservative and for consistency, will collect at twenty-six (26) base samples for total TPH, BTEX, and chlorides.

• What is the difference between the two symbol types on the figure in the SDR? Since we are proposing a different plan, this is no longer relevant.

How will subsequent confirmation sampling be completed in the event an area of contamination is discovered through lab data? In the event contamination is found to be present through lab data, continued excavation of the area will occur, and follow a follow up notification of a sampling event will be made to OCD.

I am curious to see the sample models for all five methods provided in VSP, not just the simple random sampling method. We can provide you additional sampling models for this site using the different stratifications. We select the plan provides the greatest amount of representation of the site based on geographical features and the release area. We can make arrangements to do a Microsoft Team conference so that you can see how these items impact the modeling in real time.

• What was the reasoning for selecting 0.2 for parameter Ph ? This no longer applies as SMA has chosen to go with regulatory limits for each analyte.

• What was the reasoning for selecting the calculation equation in this SDR? **The equation used is standard for the SDR.**

Ms. Eads, I would like to note that new calculations using the VSP program supports a request of a variance from 200 square feet to approximately 331 square feet along the base. SMA is requesting that 26 composite base samples be collected in addition to 10 composite sidewall samples for a total of 36 samples.

I understand that this information can be difficult to communicate via email, and we are open to conduct a Microsoft Teams demonstration.

Please feel free to contact me with additional questions or concerns.

Thanks,

Ashley

Ashley Maxwell Project Scientist

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), ID Engineering/Surveying Firm (C-3564), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)



Souder, Miller & Associates

Engineering ◆ Environmental ◆ Geomatics 401 W Broadway Farmington, New Mexico 87401 <u>www.soudermiller.com</u> (505) 320-8975 (mobile) (505) 325-7535 (office) (505) 326-0045 (fax)



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From: Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>
Sent: Friday, July 24, 2020 3:48 PM
To: Ashley Maxwell <<u>ashley.maxwell@soudermiller.com</u>>; Enviro, OCD, EMNRD
<<u>OCD.Enviro@state.nm.us</u>>
Cc: Lynn Acosta <<u>lynn.acosta@soudermiller.com</u>>; Bynum, Tom (Contract)
<<u>Tom.Bynum@dvn.com</u>>; Carrasco, Lupe <<u>Lupe.Carrasco@dvn.com</u>>
Subject: RE: Rattlesnake 13-12 Fed Com 1H (NRM2011449161) Sampling Variance Request

Ashley,

It is much appreciated by the Oil Conservation Division (OCD), that consultants and/or operators look at innovative techniques for investigation and remediation. We welcome the assessment of new approaches to these circumstances. The OCD also realizes the need to get as much information and result as possible for each dollar spent. We have and can certainly look deeper at the offered VSP method submitted for our review, which is also a kindness that does not go unnoticed. As OCD has done with previous "new" or "alternative" methods for remediation and investigation we prefer to run trial studies and not be in a position to just "accept" claims made for outcome, regardless of the source. Therefore, if this method were to be approved it would not be a standalone effort. Meaning, the more regular pattern and procedure for sample and therefore data collection would need to be accommodated at the same time and circumstance to the evaluate the validity of the model. This would occur in more than one location and circumstance and possibly with more than one operator. We understand this is additional expense and effort, but it avails a much greater sense of comfort for us as environmental stewards. For all the above being said, we would very much like to assist in evaluating this mechanism/approach, but it would need to be under an experimental evaluation.

If SMA and Devon would like to proceed as outlined above, there are several questions and concerns regarding this Sample Design Report (SDR) that would need to be addressed in order to move forward:

- A site characterization should be completed and findings of site characterization should be sent to the division for review, prior to evaluating this sample plan. I see that this sample plan includes the area, but what about the depth? How will sidewalls be addressed?
- According to the SDR, the entire area to be sampled measures out to 12,366 m2. That is equivalent to 133,103 ft2. I'm not sure if that was a typo, but that leaves one composite sample to represent over 11,000 square feet, which will not be approved.
- What is the difference between the two symbol types on the figure in the SDR?

• How will subsequent confirmation sampling be completed in the event an area of contamination is discovered through lab data?

• I am curious to see the sample models for all five methods provided in VSP, not just the simple random sampling method.

- What was the reasoning for selecting 0.2 for parameter Ph ?
- What was the reasoning for selecting the calculation equation in this SDR? I

Please let me know if you have any questions or comments. I am happy to discuss further if you would like.

I would also like to add, please send all sampling notifications to <u>OCD.Enviro@state.nm.us</u> in the future.

Thank you,

Cristina Eads | 505-670-5601

From: Ashley Maxwell <<u>ashley.maxwell@soudermiller.com</u>>

Sent: Thursday, July 23, 2020 11:53 AM

To: EMNRD-OCD-District1spills <<u>EMNRD-OCD-District1spills@state.nm.us</u>>; Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>

Cc: Lynn Acosta <<u>lynn.acosta@soudermiller.com</u>>; Bynum, Tom (Contract)

<<u>Tom.Bynum@dvn.com</u>>; Carrasco, Lupe <<u>Lupe.Carrasco@dvn.com</u>>

Subject: [EXT] Re: Rattlesnake 13-12 Fed Com 1H (NRM2011449161) Sampling Variance Request

Ms. Eads,

We will wait for a determination from OCD before sampling.

Thank you, Ashley Sent via the Samsung Galaxy S10, an AT&T 5G Evolution capable smartphone Get <u>Outlook for Android</u>

From: Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>
Sent: Thursday, July 23, 2020 11:30:49 AM
To: Ashley Maxwell <<u>ashley.maxwell@soudermiller.com</u>>; EMNRD-OCD-District1spills <<u>EMNRD-OCD-District1spills@state.nm.us</u>>
Cc: Lynn Acosta <<u>lynn.acosta@soudermiller.com</u>>; Bynum, Tom (Contract)
<<u>Tom.Bynum@dvn.com</u>>; Carrasco, Lupe <<u>Lupe.Carrasco@dvn.com</u>>
Subject: RE: Rattlesnake 13-12 Fed Com 1H (NRM2011449161) Sampling Variance Request

Ashley,

The OCD is currently reviewing the proposed sampling plan for NRM2011449161 RATTLESNAKE 13-12 FED COM 1H @ 30-025-40912. If the proposed sampling plan is not approved prior to the confirmation sampling event, the responsible party will need to follow <u>19.15.29.12</u> NMAC.

Thanks,

Cristina Eads | 505-670-5601

From: Ashley Maxwell <ashley.maxwell@soudermiller.com>
Sent: Thursday, July 23, 2020 10:32 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Lynn Acosta <lynn.acosta@soudermiller.com>; Bynum, Tom (Contract)
<Tom.Bynum@dvn.com>; Carrasco, Lupe <Lupe.Carrasco@dvn.com>
Subject: [EXT] Rattlesnake 13-12 Fed Com 1H (NRM2011449161) Sampling Variance Request
Importance: High

Dear District I Representatives,

SMA and Devon are requesting a variance of 19.15.29.12(D)(1)(c) NMAC for conducting closure sampling for the base of the excavation as described in the attached VSP Sample Design Report. As written, to sample every 200ft² would require Devon to collect in excess of 61 samples, which would create an undue burden on the operator. As a viable alternative, SMA and Devon propose using the Visual Sample Plan (VSP) software tool, which was created by the Department of Energy. The VSP is a defensible method that provides equal protection of fresh water, public health, and the environment without the burden of excess samples that statistically yield the same data. The VSP software generates a site-specific Sample Design Report, which is attached for the Rattlesnake 13-12 Fed Com 1H release site. SMA and Devon propose the following as a variance:

• Using the Department of Energy's VSP Sample Design Report utilizing a systematic sampling approach as defined by SW846 using Gilbert (1987)

equation 5.2.3 for stratified random sampling. As stated in the attached document, "The underlying methodology employs statistically defensible approaches with support the Data Quality Objectives (DQO) Process. The objective is to ensure that the right type, quality and quantity of data are gathered..."

- SMA has adjusted the deviation of the VSP program to support the request of the OCD for additional samples and proposes the following:
 - SMA will collect twelve (12) five-point composite samples in the area identified on the attached VSP Sample Design Report.

A 48-hour notification was submitted for confirmation sampling to occur on July 23, 2020. However, SMA will submit a second notification of confirmation sampling upon response from OCD.

Thanks! Ashley

Ashley Maxwell Project Scientist

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), ID Engineering/Surveying Firm (C-3564), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)



Souder, Miller & Associates Engineering ♦ Environmental ♦ Geomatics 401 W Broadway Farmington, New Mexico 87401 www.soudermiller.com (505) 320-8975 (mobile) (505) 325-7535 (office) (505) 326-0045 (fax)



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From: Lynn Acosta <lynn.acosta@soudermiller.com>
Sent: Tuesday, July 21, 2020 12:06 PM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Ashley Maxwell <ashley.maxwell@soudermiller.com>; lupe.carrasco@dvn.com; Bynum, Tom
(Contract) <Tom.Bynum@dvn.com>
Subject: Rattlesnake 13-12 Fed Com 1H (NRM2011449161) 48-Hour Notification

Good Afternoon,

Souder Miller & Associates is conducting an excavation at the Rattlesnake 13-12 Fed Com 1H (NRM2011449161). SMA is anticipating to collect confirmation samples on Thursday, July 23, 2020. Please acknowledge this as our 48-Hour notice to NMOCD.

Please let me if you have any questions or concerns.

Respectfully,

Lynn A. Acosta Staff Geoscientist

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX PST CAPM (CS-0000051), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)



Souder, Miller & Associates Engineering ♦ Environmental ♦ Surveying 3500 Sedona Hills Parkway Las Cruces, NM 88011

www.soudermiller.com (575) 647-0799 Ext. 1329 (office) (505) 516-7469 (mobile) (575) 647-0680 (fax)



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Received by OCD: 1/11/2023 9:29:34 AM



SOUDER, MILLER & ASSOCIATES Serving - New Mexico • Colorado • Arizona • Utah • Texas Released to Imaging: 2/1/2023 11:54:11 AM

Received by PAD: 1/11/2023 9:29:34 AM Rattlesnake 13-12 DVN Page 35 of 191 Acosta L. · Arrived on site (8:30a) · Goal: delineate sample locations that did not pass NMOCD Closure Criteria · Sumple locations that need to be delincated are BLI, L2, L7, L7 53. - Also need to extend SWI and SW3. · Will Began at U. - LI Sample at 2' smells like the - Sumpli at 3' Bruells life Fresh durt - Sample at 4 has no odor - Sample at 5 also has no odor · Sample Location at 12 - Sample at 2' has primor the odor - Sample at 3' has no oder - Sample at 4' nos no ador. · Sample location L4 - Sample at 2' has the odor - Sample at 3' has minor HC odor - Sample at 4' has no the odor - Sample at 5' has no HC odor. · Samply location L7 **帮 P** - Sample at 1' has no the odor · Samply location 53 - Sample at I has no the odor · Collected SWI a Foot extended · Collected SW3 a foot extended. -· Packed all samples and fulled out at coc · Met skip to deliver Samples. · Arrived at office -Released to Imaging: 271/2023 11:54:11 AM Rita in the Res . NSN: 7530-01-577-8866

Location Name:									
~	Date: 7/22/2020								
Rattlesnahe 12-13 Fed1									
Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF		
BSI	Sanch	0.5	9:50	0.12	29.8	2.1			
BS2		31	2:50	0.05	31.3	20.3			
BS3		<u> </u>	9:59	0-10	29.5	12-6			
SW3	+ + +	01	10:00	0.09	29.9	24.8			
SW 4		01	10:00	0-11	29.3	33.1			
	<u> </u>								
. 200-1									
			¹ Field	l Screen	ning				
----------------------	------------	----------------	--------------------	----------	-----------	-------------	-----		
	Lo	cation	Name:			Dat	te:		
Rattlesnap	e 12-1	3 Fc	rd I	-		7/23/2	020		
Sample Name:	Soil Type:	Depth (BGS)	Collection	EC (ppm)	Temp (°C)	PID Reading	PF		
BS 4	sord	7'	9:52	0.09	29.9	1.4			
SWI		0-7	1:04	0.07	28.9	1.3			
BS 5		4	12:55	0.03	31.4	1.4			
BSG		2.5	z:20	0.13	31.7	3.9			
SW2		0-2	3:00	0.09	31-5	3.3			
BS7		2.5	3:45	0.07	31.7				
358 5W5		2.5	2:55	6.08	32.3				
		P	4:00	0-11	32.9				
	<u> </u>								
							13		
	~								
	~	6							
· · ·		1							
							2 P		
Menson - Malana - An							1-		

	1 -			reening			
	LO	cation	Name:			Da	te:
Rattlesnak	e 13-12	-				6/11/2	.0
Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF
L	red sund	a'	910	3.42	26.4		
	_	3'	912	5.00	26.5		
		4'	951	4.13	26.7		
		51	952	2.46	26.8		
La		2'	1000	10.06	27.5		
		3'	1002	2.71	26.7		
	2	Ч'	1004	6.17	26.7		
LY		3'	1026	0.49	27.4		
		4'	1029	4.43	27.2		
		5'	1033	0.17	26.8		·
L7	reol Sand	11	948	0.03	26.7		
53		1'	1050	0.10	27.8		
SWI	4	witace	1053	0.03	27.8		
SWA	c	wifere	1055	0.03	27.8	-	
			-				
				S			

				ld Screen	ing		
			Name:			Date	<u> </u>
Rattlesnake	13-12	Fed	IH		2 9	5/7/2	2
Sample Name:	Soil Type:	Depth (BGS)	Collectio	n EC (ppm)	Temp (°C)		PF
LI	Sand	S	9:33	* 4		57.1	
		11	9:35	*		11.2	
		1-51	9:39	*		8.6	
		21	9.46			15.6	
L2		S	9:50	*		·	
		11	9:53	*		18.3	
		1.5)	9:55	*		3.5	
		2'	9:56	<u></u>		2.3	
L3		S	9:58	*		2.4	
		. 1	10:01	*		212	
		1.5	0 03			128	
		2`	10:05	*		34.3	
_4		5	10:04	*		10.9	
		11	10-11	*		207	
		1	10:13	*		173	<u> </u>
			0-16	2		27.1	
L5		SI	. 0.0	*		334	
		1 1		*		19.8	
6		S I		*		3.0	
	6			*		3.7	
L7				*	A.\$		
		A		*		7.7	
L8	5			*		60.8	
	0.1	e		*		785	
			41 *	and the second se		25.5	

Rottlesnote	13-12 \$	ed 1	н.			5/7/20	
Sample Name:	Soil Type:	Depth (BGS)		EC (ppm)	Temp (°C)	PID Reading	PF
51		S	11:46	*		2.7	
		(0 ¹⁴	11:52	K		1.2	
52	ļ	S	11:54	*		1.9	
<i>c</i> .2		6"	W259	×		1-1	
53		S	12:02	*		2.0	
Crai		6" 5	12:08	*		1.(
SWI		7	2:12	*		2.3	
SW2 SW3			2:17	¥		2.1	
SW4		-++		₭		2.5	
SWS				*		1.7	
				4-		1.7	

Received by OCD: 1/11/2023 9:29:34 AM	Page 41 of 19.
	NOTES
- Pattlesnake 13-12 Fed 14	5/7/20
9:30 Arrived on location, filled out 3 Sampling. Three sail a day filled out 3	JIIIO
-Sampling. Three soil sandra and i	HA and began
Sampling. Three soil samples were collected in additionally five soil samples were collected in	the posture (L1-L3),
additionally five soil samples were collected on 	pad in spill area (14-18)
- Along the overspray area three spil same	oles use re collected (SI-S3)
Pasture: LI, La, L3 53	
On Pad: 14, 15, 16, 17, 18 0 X= SW4 11	5SW5
Overspray: S1, S2, S3	1 La Litt
	A f
0.16	115
oly was taken along a drag	SWL
that flewed into the pasture, soil	
on sorface was really black in color, 1 015	1
	SW2
LA X	2 Jul
SW3-X	1
L8 X	
	1
S : Ø	1
52	
	E- Well Pad
· Frue Side Wall samples were taken (SWI-	
- competite 5 point and a	
All samples were field screened P- h h l	Wine PID.
3:00 : Finished sampling, left location.	Convert - 1 + 2 ·

- Released to Imaging: 2/1/2023 11:54:11 AM

APPENDIX D LABORATORY ANALYTICAL REPORTS



May 14, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Rattlesnake 13 12 FED 1H

OrderNo.: 2005393

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 32 sample(s) on 5/9/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Souder, Miller & Associates

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report

Hall Environmental Analysis Laboratory, 1	Inc.
---	------

Lab Order 2005393

Date Reported: 5/14/2020

Client Sample ID: L1- Surface Caller Dates 5/7/2020 0.22.00 AM

Project: Rattlesnake 13 12 FED 1H		(Collect	tion Dat	e: 5/7	/2020 9:33:00 AM	
Lab ID: 2005393-001	Matrix: SOIL		Recei	ved Dat	e: 5/9	/2020 7:15:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	ЈМТ
Chloride	21000	1500		mg/Kg	500	5/11/2020 3:08:58 PM	52371
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	43	24		mg/Kg	5	5/12/2020 1:48:50 PM	52366
Surr: BFB	95.0	70-130		%Rec	5	5/12/2020 1:48:50 PM	52366
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	18000	970		mg/Kg	100	5/12/2020 12:48:12 PM	52381
Motor Oil Range Organics (MRO)	15000	4800		mg/Kg	100	5/12/2020 12:48:12 PM	52381
Surr: DNOP	0	55.1-146	S	%Rec	100	5/12/2020 12:48:12 PM	52381
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst	JMR
Benzene	ND	0.12		mg/Kg	5	5/11/2020 6:09:33 PM	52366
Toluene	ND	0.24		mg/Kg	5	5/11/2020 6:09:33 PM	52366
Ethylbenzene	ND	0.24		mg/Kg	5	5/11/2020 6:09:33 PM	52366
Xylenes, Total	1.1	0.48		mg/Kg	5	5/11/2020 6:09:33 PM	52366
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%Rec	5	5/11/2020 6:09:33 PM	52366
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	5	5/11/2020 6:09:33 PM	52366

101

101

70-130

70-130

%Rec

%Rec

5

5

5/11/2020 6:09:33 PM

5/11/2020 6:09:33 PM

52366

52366

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

Qualifiers:

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

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

Page 1 of 40

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT:	Souder, Miller & Associates	Client Sample ID: L1-1'								
Project:	Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 9:35:00 AM								
Lab ID:	2005393-002	Matrix: SOIL		Received Dat	e: 5/	9/2020 7:15:00 AM				
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS					Analys	t: JMT			
Chloride		5300	300	mg/Kg	10	0 5/11/2020 3:21:22 PM	52371			
EPA ME	THOD 8015D MOD: GASOLINE	RANGE				Analys	t: JMR			
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2020 2:46:11 PM	52366			
Surr:	BFB	96.1	70-130	%Rec	1	5/12/2020 2:46:11 PM	52366			
EPA ME	THOD 8015M/D: DIESEL RANGE	E ORGANICS				Analys	t: BRM			
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	5/12/2020 8:07:06 PM	52381			
Motor O	il Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2020 8:07:06 PM	52381			
Surr:	DNOP	102	55.1-146	%Rec	1	5/12/2020 8:07:06 PM	52381			
EPA ME	THOD 8260B: VOLATILES SHO	RT LIST				Analys	t: JMR			
Benzene	9	ND	0.025	mg/Kg	1	5/11/2020 7:35:04 PM	52366			
Toluene		ND	0.049	mg/Kg	1	5/11/2020 7:35:04 PM	52366			
Ethylber	izene	ND	0.049	mg/Kg	1	5/11/2020 7:35:04 PM	52366			
Xylenes,	, Total	ND	0.098	mg/Kg	1	5/11/2020 7:35:04 PM	52366			
Surr:	1,2-Dichloroethane-d4	89.5	70-130	%Rec	1	5/11/2020 7:35:04 PM	52366			
Surr: 4	4-Bromofluorobenzene	90.5	70-130	%Rec	1	5/11/2020 7:35:04 PM	52366			
Surr:	Dibromofluoromethane	107	70-130	%Rec	1	5/11/2020 7:35:04 PM	52366			
Surr:	Toluene-d8	99.4	70-130	%Rec	1	5/11/2020 7:35:04 PM	52366			

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

Qualifiers:

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

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

Page 2 of 40

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT	: Souder, Miller & Associates		Client Sample ID: L1-1.5'							
Project:	Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 9:39:00 AM								
Lab ID:	2005393-003	Matrix: SOIL		Received Dat	e: 5/	9/2020 7:15:00 AM				
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS					Analyst	: ЈМТ			
Chloride	2	6400	300	mg/Kg	10	0 5/11/2020 3:33:47 PM	52371			
EPA ME	THOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR			
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2020 9:00:49 PM	52366			
Surr:	BFB	87.9	70-130	%Rec	1	5/11/2020 9:00:49 PM	52366			
EPA ME	THOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	BRM			
Diesel R	Range Organics (DRO)	ND	9.5	mg/Kg	1	5/12/2020 8:31:32 PM	52381			
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2020 8:31:32 PM	52381			
Surr:	DNOP	97.6	55.1-146	%Rec	1	5/12/2020 8:31:32 PM	52381			
EPA ME	THOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR			
Benzene	e	ND	0.024	mg/Kg	1	5/11/2020 9:00:49 PM	52366			
Toluene	•	ND	0.048	mg/Kg	1	5/11/2020 9:00:49 PM	52366			
Ethylber	nzene	ND	0.048	mg/Kg	1	5/11/2020 9:00:49 PM	52366			
Xylenes	, Total	ND	0.095	mg/Kg	1	5/11/2020 9:00:49 PM	52366			
Surr:	1,2-Dichloroethane-d4	88.7	70-130	%Rec	1	5/11/2020 9:00:49 PM	52366			
Surr:	4-Bromofluorobenzene	92.3	70-130	%Rec	1	5/11/2020 9:00:49 PM	52366			
Surr:	Dibromofluoromethane	105	70-130	%Rec	1	5/11/2020 9:00:49 PM	52366			
Surr:	Toluene-d8	95.9	70-130	%Rec	1	5/11/2020 9:00:49 PM	52366			

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

Qualifiers:

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

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

Page 3 of 40

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

2005393-004

Rattlesnake 13 12 FED 1H

Analytical Report

Lab Order 2005393

Date Reported: 5/14/2020

Client Sample ID: L2-Surface
Collection Date: 5/7/2020 9:50:00 AM
Received Date: 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	7600	300		mg/Kg	100) 5/11/2020 3:46:11 PM	52371
EPA METHOD 8015D MOD: GASOLINE RANGE						Analys	t: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/11/2020 9:29:38 PM	52366
Surr: BFB	94.3	70-130		%Rec	1	5/11/2020 9:29:38 PM	52366
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analys	t: BRM
Diesel Range Organics (DRO)	8500	970		mg/Kg	100	5/12/2020 1:12:24 PM	52381
Motor Oil Range Organics (MRO)	7200	4900		mg/Kg	100) 5/12/2020 1:12:24 PM	52381
Surr: DNOP	0	55.1-146	S	%Rec	100) 5/12/2020 1:12:24 PM	52381
EPA METHOD 8260B: VOLATILES SHORT LIST						Analys	t: JMR
Benzene	ND	0.025		mg/Kg	1	5/11/2020 9:29:38 PM	52366
Toluene	ND	0.049		mg/Kg	1	5/11/2020 9:29:38 PM	52366
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2020 9:29:38 PM	52366
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2020 9:29:38 PM	52366
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	1	5/11/2020 9:29:38 PM	52366
Surr: 4-Bromofluorobenzene	73.9	70-130		%Rec	1	5/11/2020 9:29:38 PM	52366
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/11/2020 9:29:38 PM	52366
Surr: Toluene-d8	101	70-130		%Rec	1	5/11/2020 9:29:38 PM	52366

Matrix: SOIL

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

Qualifiers:

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

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

Page 4 of 40

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: L2-1'								
Project: Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 9:53:00 AM								
Lab ID: 2005393-005	Matrix: SOIL	Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: JMT			
Chloride	4700	300	mg/Kg	10	0 5/11/2020 3:58:35 PM	52371			
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 9:58:19 PM	52366			
Surr: BFB	92.4	70-130	%Rec	1	5/11/2020 9:58:19 PM	52366			
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/12/2020 8:55:49 PM	52381			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2020 8:55:49 PM	52381			
Surr: DNOP	105	55.1-146	%Rec	1	5/12/2020 8:55:49 PM	52381			
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR			
Benzene	ND	0.025	mg/Kg	1	5/11/2020 9:58:19 PM	52366			
Toluene	ND	0.049	mg/Kg	1	5/11/2020 9:58:19 PM	52366			
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2020 9:58:19 PM	52366			
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2020 9:58:19 PM	52366			
Surr: 1,2-Dichloroethane-d4	86.8	70-130	%Rec	1	5/11/2020 9:58:19 PM	52366			
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	5/11/2020 9:58:19 PM	52366			
Surr: Dibromofluoromethane	104	70-130	%Rec	1	5/11/2020 9:58:19 PM	52366			
Surr: Toluene-d8	98.3	70-130	%Rec	1	5/11/2020 9:58:19 PM	52366			

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

5/11/2020 10:27:05 PM 52366

5/11/2020 10:27:05 PM 52366

	Souder, Miller & Associates			ient Sample II			
Project:	Rattlesnake 13 12 FED 1H			Collection Dat	e: 5/7	/2020 9:55:00 AM	
Lab ID:	2005393-006	Matrix: SOIL		Received Dat	e: 5/9	/2020 7:15:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	: JMT
Chloride		4900	300	mg/Kg	100) 5/11/2020 4:11:00 PM	52371
EPA MET	THOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 10:27:05 PM	52366
Surr: I	BFB	92.6	70-130	%Rec	1	5/11/2020 10:27:05 PM	52366
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	5/12/2020 9:20:23 PM	52381
Motor Oi	l Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2020 9:20:23 PM	52381
Surr: I	DNOP	104	55.1-146	%Rec	1	5/12/2020 9:20:23 PM	52381
EPA MET	THOD 8260B: VOLATILES SHO	DRT LIST				Analyst	: JMR
Benzene		ND	0.025	mg/Kg	1	5/11/2020 10:27:05 PM	52366
Toluene		ND	0.049	mg/Kg	1	5/11/2020 10:27:05 PM	52366
Ethylben	izene	ND	0.049	mg/Kg	1	5/11/2020 10:27:05 PM	52366
Xylenes,	Total	ND	0.098	mg/Kg	1	5/11/2020 10:27:05 PM	52366
Surr:	1,2-Dichloroethane-d4	87.7	70-130	%Rec	1	5/11/2020 10:27:05 PM	52366
Surr: 4	4-Bromofluorobenzene	89.0	70-130	%Rec	1	5/11/2020 10:27:05 PM	52366

106

101

70-130

70-130

%Rec

%Rec

1

1

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

Qualifiers:

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

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

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Surr: Dibromofluoromethane

Surr: Toluene-d8

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

2005393-007

Rattlesnake 13 12 FED 1H

Analytical Report

Lab Order 2005393 Date Reported: 5/14/2020

Client Sample ID: L3-Surface

Collection Date: 5/7/2020 9:58:00 AM

Received Date: 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	21000	1500		mg/Kg	500	5/11/2020 4:23:25 PM	52371
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	: JMR
Gasoline Range Organics (GRO)	78	25		mg/Kg	5	5/11/2020 5:41:02 PM	52366
Surr: BFB	99.6	70-130		%Rec	5	5/11/2020 5:41:02 PM	52366
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	15000	990		mg/Kg	100	5/12/2020 1:36:41 PM	52381
Motor Oil Range Organics (MRO)	9900	4900		mg/Kg	100	5/12/2020 1:36:41 PM	52381
Surr: DNOP	0	55.1-146	S	%Rec	100	5/12/2020 1:36:41 PM	52381
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	: JMR
Benzene	ND	0.12		mg/Kg	5	5/11/2020 5:41:02 PM	52366
Toluene	ND	0.25		mg/Kg	5	5/11/2020 5:41:02 PM	52366
Ethylbenzene	0.35	0.25		mg/Kg	5	5/11/2020 5:41:02 PM	52366
Xylenes, Total	2.1	0.49		mg/Kg	5	5/11/2020 5:41:02 PM	52366
Surr: 1,2-Dichloroethane-d4	86.6	70-130		%Rec	5	5/11/2020 5:41:02 PM	52366
Surr: 4-Bromofluorobenzene	74.6	70-130		%Rec	5	5/11/2020 5:41:02 PM	52366
Surr: Dibromofluoromethane	102	70-130		%Rec	5	5/11/2020 5:41:02 PM	52366
Surr: Toluene-d8	97.7	70-130		%Rec	5	5/11/2020 5:41:02 PM	52366

Matrix: SOIL

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT:	Souder, Miller & Associates	Client Sample ID: L3-1'								
Project:	Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 10:01:00 AM								
Lab ID:	2005393-008	Matrix: SOIL	Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	THOD 300.0: ANIONS					Analyst	: JMT			
Chloride		5500	300	mg/Kg	10	0 5/11/2020 9:20:58 PM	52371			
EPA MET	THOD 8015D MOD: GASOLINE F	RANGE				Analyst	JMR			
Gasoline	e Range Organics (GRO)	6.0	4.9	mg/Kg	1	5/11/2020 10:55:54 PM	52366			
Surr: I	BFB	99.6	70-130	%Rec	1	5/11/2020 10:55:54 PM	52366			
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel R	ange Organics (DRO)	660	48	mg/Kg	5	5/13/2020 2:59:51 AM	52381			
Motor Oi	I Range Organics (MRO)	460	240	mg/Kg	5	5/13/2020 2:59:51 AM	52381			
Surr: I	DNOP	123	55.1-146	%Rec	5	5/13/2020 2:59:51 AM	52381			
EPA MET	THOD 8260B: VOLATILES SHOP	RT LIST				Analyst	: JMR			
Benzene		ND	0.025	mg/Kg	1	5/11/2020 10:55:54 PM	52366			
Toluene		ND	0.049	mg/Kg	1	5/11/2020 10:55:54 PM	52366			
Ethylben	izene	ND	0.049	mg/Kg	1	5/11/2020 10:55:54 PM	52366			
Xylenes,	Total	ND	0.099	mg/Kg	1	5/11/2020 10:55:54 PM	52366			
Surr: 2	1,2-Dichloroethane-d4	91.2	70-130	%Rec	1	5/11/2020 10:55:54 PM	52366			
Surr: 4	4-Bromofluorobenzene	77.5	70-130	%Rec	1	5/11/2020 10:55:54 PM	52366			
Surr: I	Dibromofluoromethane	107	70-130	%Rec	1	5/11/2020 10:55:54 PM	52366			
Surr:	Toluene-d8	99.1	70-130	%Rec	1	5/11/2020 10:55:54 PM	52366			

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT:	Souder, Miller & Associates		Cl	ient Sample II	D: L3	-2'				
Project:	Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 10:05:00 AM								
Lab ID:	2005393-009	Matrix: SOIL		Received Dat	e: 5/9	9/2020 7:15:00 AM				
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
	THOD 300.0: ANIONS					Analyst	CAS			
Chloride		120	60	mg/Kg	20	5/10/2020 3:48:20 PM	52371			
EPA ME	THOD 8015D MOD: GASOLINE I	RANGE				Analyst	JMR			
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2020 1:48:49 AM	52366			
Surr:	BFB	94.1	70-130	%Rec	1	5/12/2020 1:48:49 AM	52366			
EPA ME	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel R	ange Organics (DRO)	ND	9.4	mg/Kg	1	5/12/2020 9:44:33 PM	52381			
Motor O	il Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2020 9:44:33 PM	52381			
Surr:	DNOP	103	55.1-146	%Rec	1	5/12/2020 9:44:33 PM	52381			
EPA ME	THOD 8260B: VOLATILES SHOP					Analyst	: JMR			
Benzene	9	ND	0.024	mg/Kg	1	5/12/2020 1:48:49 AM	52366			
Toluene		ND	0.049	mg/Kg	1	5/12/2020 1:48:49 AM	52366			
Ethylber	izene	ND	0.049	mg/Kg	1	5/12/2020 1:48:49 AM	52366			
Xylenes,	Total	ND	0.097	mg/Kg	1	5/12/2020 1:48:49 AM	52366			
Surr:	1,2-Dichloroethane-d4	90.0	70-130	%Rec	1	5/12/2020 1:48:49 AM	52366			
Surr: 4	4-Bromofluorobenzene	92.1	70-130	%Rec	1	5/12/2020 1:48:49 AM	52366			
Surr:	Dibromofluoromethane	106	70-130	%Rec	1	5/12/2020 1:48:49 AM	52366			
Surr:	Toluene-d8	100	70-130	%Rec	1	5/12/2020 1:48:49 AM	52366			

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

Qualifiers:

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

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

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CLIENT: Souder, Miller & Associates

Project: Rattlesnake 13 12 FED 1H

Analytical Report

Hall Environmental Analysis Laboratory, Inc

Lab Order 2005393

Date Reported: 5/14/2020

Client Sample ID: L4-Surface Collection Date: 5/7/2020 10:09:00 AM

Lab ID: 2005393-010 Matrix: SOIL Received Date: 5/9/2020 7:15:00 AN					/2020 7:15:00 AM		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: ЈМТ
Chloride	10000	600		mg/Kg	200	5/12/2020 7:51:30 PM	52371
EPA METHOD 8015D MOD: GASOLIN	E RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	160	4.9		mg/Kg	1	5/12/2020 2:17:40 AM	52366
Surr: BFB	104	70-130		%Rec	1	5/12/2020 2:17:40 AM	52366
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	3400	99		mg/Kg	10	5/12/2020 2:24:55 PM	52381
Motor Oil Range Organics (MRO)	2500	490		mg/Kg	10	5/12/2020 2:24:55 PM	52381
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020 2:24:55 PM	52381
EPA METHOD 8260B: VOLATILES SH	ORT LIST					Analyst	JMR
Benzene	ND	0.024		mg/Kg	1	5/12/2020 2:17:40 AM	52366
Toluene	1.0	0.049		mg/Kg	1	5/12/2020 2:17:40 AM	52366
Ethylbenzene	2.6	0.049		mg/Kg	1	5/12/2020 2:17:40 AM	52366
Xylenes, Total	10	0.097		mg/Kg	1	5/12/2020 2:17:40 AM	52366
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	5/12/2020 2:17:40 AM	52366
Surr: 4-Bromofluorobenzene	65.7	70-130	S	%Rec	1	5/12/2020 2:17:40 AM	52366
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/12/2020 2:17:40 AM	52366
Surr: Toluene-d8	99.2	70-130		%Rec	1	5/12/2020 2:17:40 AM	52366

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: L4-1'							
Project: Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 10:11:00 AM							
Lab ID: 2005393-011	Matrix: SOIL	0/2020 7:15:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	: ЈМТ	
Chloride	7300	300		mg/Kg	100) 5/11/2020 10:10:35 PM	52371	
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	JMR	
Gasoline Range Organics (GRO)	5.4	4.9		mg/Kg	1	5/12/2020 3:14:43 PM	52366	
Surr: BFB	97.6	70-130		%Rec	1	5/12/2020 3:14:43 PM	52366	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM	
Diesel Range Organics (DRO)	620	93		mg/Kg	10	5/12/2020 2:49:13 PM	52381	
Motor Oil Range Organics (MRO)	500	460		mg/Kg	10	5/12/2020 2:49:13 PM	52381	
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020 2:49:13 PM	52381	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST					Analyst	JMR	
Benzene	ND	0.025		mg/Kg	1	5/12/2020 2:46:29 AM	52366	
Toluene	ND	0.049		mg/Kg	1	5/12/2020 2:46:29 AM	52366	
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 2:46:29 AM	52366	
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 2:46:29 AM	52366	
Surr: 1,2-Dichloroethane-d4	90.2	70-130		%Rec	1	5/12/2020 2:46:29 AM	52366	
Surr: 4-Bromofluorobenzene	76.6	70-130		%Rec	1	5/12/2020 2:46:29 AM	52366	
Surr: Dibromofluoromethane	108	70-130		%Rec	1	5/12/2020 2:46:29 AM	52366	
Surr: Toluene-d8	100	70-130		%Rec	1	5/12/2020 2:46:29 AM	52366	

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

Qualifiers:

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

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

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Project:

CLIENT: Souder, Miller & Associates

Rattlesnake 13 12 FED 1H

Analytical Report

Lab Order 2005393

Date Reported: 5/14/2020

Client Sample ID: L4-1.5'
Collection Date: 5/7/2020 10:13:00 AM
Received Date: 5/9/2020 7:15:00 AM

Lab ID: 2005393-012	Matrix: SOIL	Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	4000	300	mg/Kg	100) 5/11/2020 10:23:00 PM	52371
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2020 3:15:15 AM	52366
Surr: BFB	93.4	70-130	%Rec	1	5/12/2020 3:15:15 AM	52366
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	16	9.7	mg/Kg	1	5/12/2020 10:08:54 PM	52381
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2020 10:08:54 PM	52381
Surr: DNOP	99.0	55.1-146	%Rec	1	5/12/2020 10:08:54 PM	52381
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	5/12/2020 3:15:15 AM	52366
Toluene	ND	0.049	mg/Kg	1	5/12/2020 3:15:15 AM	52366
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2020 3:15:15 AM	52366
Xylenes, Total	ND	0.098	mg/Kg	1	5/12/2020 3:15:15 AM	52366
Surr: 1,2-Dichloroethane-d4	86.8	70-130	%Rec	1	5/12/2020 3:15:15 AM	52366
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	5/12/2020 3:15:15 AM	52366
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/12/2020 3:15:15 AM	52366
Surr: Toluene-d8	99.3	70-130	%Rec	1	5/12/2020 3:15:15 AM	52366

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 12 of 40

Project:

Lab ID:

Analyses

CLIENT: Souder, Miller & Associates

2005393-013

Rattlesnake 13 12 FED 1H

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

	Client Sample ID: L5-Surface										
Collection Date: 5/7/2020 10:20:00 AM											
	Matrix: SOIL	Rec	eived Dat	e: 5/9/2020 7:15:00 AM							
	Result	RL Qua	d Units	DF Date Analyzed	Batch						
				Analys	t: JMT						
	07000	4500		500 5/44/0000 40 05 05 D							

EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	27000	1500		mg/Kg	500	5/11/2020 10:35:25 PM	52371
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	9.1	5.0		mg/Kg	1	5/12/2020 3:44:10 AM	52366
Surr: BFB	97.5	70-130		%Rec	1	5/12/2020 3:44:10 AM	52366
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	8900	940		mg/Kg	100	5/12/2020 3:14:55 PM	52381
Motor Oil Range Organics (MRO)	6900	4700		mg/Kg	100	5/12/2020 3:14:55 PM	52381
Surr: DNOP	0	55.1-146	S	%Rec	100	5/12/2020 3:14:55 PM	52381
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	ND	0.025		mg/Kg	1	5/12/2020 3:44:10 AM	52366
Toluene	ND	0.050		mg/Kg	1	5/12/2020 3:44:10 AM	52366
Ethylbenzene	0.077	0.050		mg/Kg	1	5/12/2020 3:44:10 AM	52366
Xylenes, Total	0.33	0.099		mg/Kg	1	5/12/2020 3:44:10 AM	52366
Surr: 1,2-Dichloroethane-d4	89.2	70-130		%Rec	1	5/12/2020 3:44:10 AM	52366
Surr: 4-Bromofluorobenzene	75.2	70-130		%Rec	1	5/12/2020 3:44:10 AM	52366
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/12/2020 3:44:10 AM	52366
Surr: Toluene-d8	98.8	70-130		%Rec	1	5/12/2020 3:44:10 AM	52366

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: L5-1'									
Project: Rattlesnake 13 12 FED 1H		Collection Date: 5/7/2020 10:27:00 AM								
Lab ID: 2005393-014	Matrix: SOIL		Received Dat	e: 5/9	9/2020 7:15:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	250	61	mg/Kg	20	5/10/2020 5:14:44 PM	52371				
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2020 4:11:56 PM	52366				
Surr: BFB	89.6	70-130	%Rec	1	5/12/2020 4:11:56 PM	52366				
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	22	9.6	mg/Kg	1	5/12/2020 10:33:05 PM	52381				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2020 10:33:05 PM	52381				
Surr: DNOP	103	55.1-146	%Rec	1	5/12/2020 10:33:05 PM	52381				
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR				
Benzene	ND	0.024	mg/Kg	1	5/12/2020 4:13:01 AM	52366				
Toluene	ND	0.048	mg/Kg	1	5/12/2020 4:13:01 AM	52366				
Ethylbenzene	ND	0.048	mg/Kg	1	5/12/2020 4:13:01 AM	52366				
Xylenes, Total	ND	0.096	mg/Kg	1	5/12/2020 4:13:01 AM	52366				
Surr: 1,2-Dichloroethane-d4	88.5	70-130	%Rec	1	5/12/2020 4:13:01 AM	52366				
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	5/12/2020 4:13:01 AM	52366				
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/12/2020 4:13:01 AM	52366				
Surr: Toluene-d8	96.6	70-130	%Rec	1	5/12/2020 4:13:01 AM	52366				

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

Qualifiers:

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

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

RL Reporting Limit Page 14 of 40

Project:

CLIENT: Souder, Miller & Associates

Rattlesnake 13 12 FED 1H

Analytical Report

Hall Environmental Analysis Laboratory, 1	Inc.
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Lab Order 2005393

Date Reported: 5/14/2020

Client Sample ID: L6-Surface						
Collection Date: 5/7/2020 11:09:00 AM						
Dessived Deter 5/0/2020 7.15.00 AM						

Lab ID: 2005393-015	Matrix: SOIL		Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL Qual Units		DF Date Analyzed		Batch				
EPA METHOD 300.0: ANIONS						Analyst:	ЈМТ			
Chloride	10000	600		mg/Kg	200	5/11/2020 10:47:50 PM	52371			
EPA METHOD 8015D MOD: GASOLINE F	RANGE					Analyst:	JMR			
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 4:41:30 AM	52366			
Surr: BFB	94.7	70-130		%Rec	1	5/12/2020 4:41:30 AM	52366			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	BRM			
Diesel Range Organics (DRO)	5000	99		mg/Kg	10	5/12/2020 3:39:21 PM	52381			
Motor Oil Range Organics (MRO)	4900	500		mg/Kg	10	5/12/2020 3:39:21 PM	52381			
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020 3:39:21 PM	52381			
EPA METHOD 8260B: VOLATILES SHOP	RT LIST					Analyst:	JMR			
Benzene	ND	0.025		mg/Kg	1	5/12/2020 4:41:30 AM	52366			
Toluene	ND	0.050		mg/Kg	1	5/12/2020 4:41:30 AM	52366			
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 4:41:30 AM	52366			
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 4:41:30 AM	52366			
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	5/12/2020 4:41:30 AM	52366			
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	5/12/2020 4:41:30 AM	52366			
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/12/2020 4:41:30 AM	52366			
Surr: Toluene-d8	101	70-130		%Rec	1	5/12/2020 4:41:30 AM	52366			

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Soude	r, Miller & Associates	Client Sample ID: L6-6"								
Project: Rattles	snake 13 12 FED 1H	Collection Date: 5/7/2020 11:18:00 AM								
Lab ID: 20053	93-016	Matrix: SOIL		Received Dat	e: 5/9	9/2020 7:15:00 AM				
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 3	00.0: ANIONS					Analyst	CAS			
Chloride		390	60	mg/Kg	20	5/10/2020 5:39:26 PM	52371			
EPA METHOD 8	015D MOD: GASOLINE F	RANGE				Analyst	JMR			
Gasoline Range	Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2020 5:10:03 AM	52366			
Surr: BFB		94.5	70-130	%Rec	1	5/12/2020 5:10:03 AM	52366			
EPA METHOD 8	015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel Range Org	ganics (DRO)	11	9.3	mg/Kg	1	5/12/2020 10:57:27 PM	52381			
Motor Oil Range	Organics (MRO)	ND	46	mg/Kg	1	5/12/2020 10:57:27 PM	52381			
Surr: DNOP		87.5	55.1-146	%Rec	1	5/12/2020 10:57:27 PM	52381			
EPA METHOD 8	260B: VOLATILES SHOR	RT LIST				Analyst	: JMR			
Benzene		ND	0.025	mg/Kg	1	5/12/2020 5:10:03 AM	52366			
Toluene		ND	0.050	mg/Kg	1	5/12/2020 5:10:03 AM	52366			
Ethylbenzene		ND	0.050	mg/Kg	1	5/12/2020 5:10:03 AM	52366			
Xylenes, Total		ND	0.10	mg/Kg	1	5/12/2020 5:10:03 AM	52366			
Surr: 1,2-Dichl	oroethane-d4	88.5	70-130	%Rec	1	5/12/2020 5:10:03 AM	52366			
Surr: 4-Bromo	fluorobenzene	96.6	70-130	%Rec	1	5/12/2020 5:10:03 AM	52366			
Surr: Dibromof	fluoromethane	105	70-130	%Rec	1	5/12/2020 5:10:03 AM	52366			
Surr: Toluene-	d8	100	70-130	%Rec	1	5/12/2020 5:10:03 AM	52366			

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

Qualifiers:

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

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

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CLIENT: Souder, Miller & Associates

Project: Rattlesnake 13 12 FED 1H

Analytical Report

Hall H	Environmental	Analysis	Laboratory,	Inc.
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Lab Order 2005393

Date Reported: 5/14/2020

Client Sample ID: L7-Surface Collection Date: 5/7/2020 11:21:00 AM · 1D _

Lab ID: 2005393-017	Matrix: SOIL		Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual	Units	DF Da	te Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	JMT			
Chloride	50000	3000		mg/Kg	1E+ 5/	11/2020 11:00:15 PM	52371			
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	: JMR			
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Surr: BFB	96.4	70-130		%Rec	1 5/ ⁻	12/2020 5:38:39 AM	52366			
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	BRM			
Diesel Range Organics (DRO)	11000	950		mg/Kg	100 5/ ⁻	12/2020 4:03:55 PM	52381			
Motor Oil Range Organics (MRO)	12000	4700		mg/Kg	100 5/	12/2020 4:03:55 PM	52381			
Surr: DNOP	0	55.1-146	S	%Rec	100 5/	12/2020 4:03:55 PM	52381			
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst	JMR			
Benzene	ND	0.025		mg/Kg	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Toluene	ND	0.049		mg/Kg	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Ethylbenzene	ND	0.049		mg/Kg	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Xylenes, Total	ND	0.098		mg/Kg	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Surr: 1,2-Dichloroethane-d4	87.0	70-130		%Rec	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Surr: 4-Bromofluorobenzene	79.8	70-130		%Rec	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Surr: Dibromofluoromethane	102	70-130		%Rec	1 5/ ⁻	12/2020 5:38:39 AM	52366			
Surr: Toluene-d8	100	70-130		%Rec	1 5/ ⁻	12/2020 5:38:39 AM	52366			

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Mi	ller & Associates	Client Sample ID: L7-6"							
Project: Rattlesnake	Collection Date: 5/7/2020 11:27:00 AM								
Lab ID: 2005393-0	18	Matrix: SOIL	Received Date: 5/9/2020 7:15:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0:	ANIONS					Analyst	CAS		
Chloride		1600	60	mg/Kg	20	5/10/2020 6:04:06 PM	52371		
EPA METHOD 8015D	MOD: GASOLINE R	ANGE				Analyst	JMR		
Gasoline Range Orgar	nics (GRO)	ND	4.9	mg/Kg	1	5/12/2020 6:07:18 AM	52366		
Surr: BFB		94.0	70-130	%Rec	1	5/12/2020 6:07:18 AM	52366		
EPA METHOD 8015M	//D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics	s (DRO)	190	9.4	mg/Kg	1	5/12/2020 11:21:42 PM	52381		
Motor Oil Range Orgar	nics (MRO)	120	47	mg/Kg	1	5/12/2020 11:21:42 PM	52381		
Surr: DNOP		105	55.1-146	%Rec	1	5/12/2020 11:21:42 PM	52381		
EPA METHOD 8260B	: VOLATILES SHORT	LIST				Analyst	: JMR		
Benzene		ND	0.024	mg/Kg	1	5/12/2020 6:07:18 AM	52366		
Toluene		ND	0.049	mg/Kg	1	5/12/2020 6:07:18 AM	52366		
Ethylbenzene		ND	0.049	mg/Kg	1	5/12/2020 6:07:18 AM	52366		
Xylenes, Total		ND	0.098	mg/Kg	1	5/12/2020 6:07:18 AM	52366		
Surr: 1,2-Dichloroetl	hane-d4	87.5	70-130	%Rec	1	5/12/2020 6:07:18 AM	52366		
Surr: 4-Bromofluoro	benzene	91.0	70-130	%Rec	1	5/12/2020 6:07:18 AM	52366		
Surr: Dibromofluoro	methane	102	70-130	%Rec	1	5/12/2020 6:07:18 AM	52366		
Surr: Toluene-d8		101	70-130	%Rec	1	5/12/2020 6:07:18 AM	52366		

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

Qualifiers:

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

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

CLIENT: Souder, Miller & Associates

Project: Rattlesnake 13 12 FED 1H

Analytical Report

Lab Order 2005393

Date Reported: 5/14/2020

Client Sample ID: L8-Surface Collection Date: 5/7/2020 11:30:00 AM

Lab ID: 2005393-019	Matrix: SOIL	Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	: JMT		
Chloride	5800	150		mg/Kg	50	5/11/2020 11:12:39 PM	52371		
EPA METHOD 8015D MOD: GASOLINE R	ANGE					Analyst	: JMR		
Gasoline Range Organics (GRO)	15	5.0		mg/Kg	1	5/12/2020 6:35:51 AM	52366		
Surr: BFB	98.2	70-130		%Rec	1	5/12/2020 6:35:51 AM	52366		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM		
Diesel Range Organics (DRO)	17000	980		mg/Kg	100	5/12/2020 4:28:17 PM	52381		
Motor Oil Range Organics (MRO)	16000	4900		mg/Kg	100	5/12/2020 4:28:17 PM	52381		
Surr: DNOP	0	55.1-146	S	%Rec	100	5/12/2020 4:28:17 PM	52381		
EPA METHOD 8260B: VOLATILES SHOR	T LIST					Analyst	: JMR		
Benzene	ND	0.025		mg/Kg	1	5/12/2020 6:35:51 AM	52366		
Toluene	ND	0.050		mg/Kg	1	5/12/2020 6:35:51 AM	52366		
Ethylbenzene	0.051	0.050		mg/Kg	1	5/12/2020 6:35:51 AM	52366		
Xylenes, Total	0.41	0.099		mg/Kg	1	5/12/2020 6:35:51 AM	52366		
Surr: 1,2-Dichloroethane-d4	85.5	70-130		%Rec	1	5/12/2020 6:35:51 AM	52366		
Surr: 4-Bromofluorobenzene	68.9	70-130	S	%Rec	1	5/12/2020 6:35:51 AM	52366		
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/12/2020 6:35:51 AM	52366		
Surr: Toluene-d8	99.1	70-130		%Rec	1	5/12/2020 6:35:51 AM	52366		

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

Qualifiers:

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

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

Reporting Limit

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Surr: Toluene-d8

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: L8-6"							
Project: Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 11:36:00 AM							
Lab ID: 2005393-020	Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	ND	60	mg/Kg	20	5/12/2020 12:24:45 PM	1 52410		
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analys	t: JMR		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2020 7:04:18 AM	52366		
Surr: BFB	94.7	70-130	%Rec	1	5/12/2020 7:04:18 AM	52366		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM		
Diesel Range Organics (DRO)	120	9.3	mg/Kg	1	5/12/2020 11:45:55 PM	1 52381		
Motor Oil Range Organics (MRO)	98	46	mg/Kg	1	5/12/2020 11:45:55 PM	1 52381		
Surr: DNOP	104	55.1-146	%Rec	1	5/12/2020 11:45:55 PM	1 52381		
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analys	t: JMR		
Benzene	ND	0.025	mg/Kg	1	5/12/2020 7:04:18 AM	52366		
Toluene	ND	0.050	mg/Kg	1	5/12/2020 7:04:18 AM	52366		
Ethylbenzene	ND	0.050	mg/Kg	1	5/12/2020 7:04:18 AM	52366		
Xylenes, Total	ND	0.099	mg/Kg	1	5/12/2020 7:04:18 AM	52366		
Surr: 1,2-Dichloroethane-d4	90.1	70-130	%Rec	1	5/12/2020 7:04:18 AM	52366		
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	5/12/2020 7:04:18 AM	52366		
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/12/2020 7:04:18 AM	52366		

101

70-130

%Rec

1

5/12/2020 7:04:18 AM 52366

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: L8	8-1'				
Project: Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 11:41:00 AM								
Lab ID: 2005393-021	393-021 Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ			
Chloride	ND	60	mg/Kg	20	5/12/2020 8:03:55 PM	52410			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/12/2020 8:48:44 AM	52384			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2020 8:48:44 AM	52384			
Surr: DNOP	95.1	55.1-146	%Rec	1	5/12/2020 8:48:44 AM	52384			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 7:02:50 PM	52369			
Surr: BFB	99.0	66.6-105	%Rec	1	5/11/2020 7:02:50 PM	52369			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.025	mg/Kg	1	5/11/2020 7:02:50 PM	52369			
Toluene	ND	0.049	mg/Kg	1	5/11/2020 7:02:50 PM	52369			
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2020 7:02:50 PM	52369			
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2020 7:02:50 PM	52369			
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	1	5/11/2020 7:02:50 PM	52369			

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

Qualifiers:

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

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

RL Reporting Limit

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Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sa	ample II	D: S1-	-Surface	face						
Project: Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 11:46:00 AM												
Lab ID: 2005393-022	Matrix: SOIL	Matrix: SOILReceived Date: 5/9/2020 7:15:00 AM											
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS						Analyst	: JMT						
Chloride	16000	590		mg/Kg	200	5/12/2020 8:16:20 PM	52410						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	: CLP						
Diesel Range Organics (DRO)	3400	98		mg/Kg	10	5/12/2020 10:00:29 AN	52384						
Motor Oil Range Organics (MRO)	3300	490		mg/Kg	10	5/12/2020 10:00:29 AN	52384						
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020 10:00:29 AN	52384						
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	: NSB						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/11/2020 8:13:29 PM	52369						
Surr: BFB	95.7	66.6-105		%Rec	1	5/11/2020 8:13:29 PM	52369						
EPA METHOD 8021B: VOLATILES						Analyst	: NSB						
Benzene	ND	0.024		mg/Kg	1	5/11/2020 8:13:29 PM	52369						
Toluene	ND	0.049		mg/Kg	1	5/11/2020 8:13:29 PM	52369						
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2020 8:13:29 PM	52369						
Xylenes, Total	ND	0.097		mg/Kg	1	5/11/2020 8:13:29 PM	52369						
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	5/11/2020 8:13:29 PM	52369						

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

Qualifiers:

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

В Analyte detected in the associated Method Blank

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported:	5/14/2020
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CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 FED 1H Lab ID: 2005393-023	Client Sample ID: S1-6" Collection Date: 5/7/2020 11:52:00 AM Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual Units		Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	78	60	mg/Kg	20	5/12/2020 8:28:44 PM	52410		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: CLP		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/12/2020 10:48:17 AM	1 52384		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2020 10:48:17 AM	1 52384		
Surr: DNOP	98.8	55.1-146	%Rec	1	5/12/2020 10:48:17 AM	1 52384		
EPA METHOD 8015D: GASOLINE RANG	ЭE				Analys	t: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 9:24:25 PM	52369		
Surr: BFB	97.0	66.6-105	%Rec	1	5/11/2020 9:24:25 PM	52369		
EPA METHOD 8021B: VOLATILES					Analys	t: NSB		
Benzene	ND	0.024	mg/Kg	1	5/11/2020 9:24:25 PM	52369		
Toluene	ND	0.049	mg/Kg	1	5/11/2020 9:24:25 PM	52369		
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2020 9:24:25 PM	52369		
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2020 9:24:25 PM	52369		
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	5/11/2020 9:24:25 PM	52369		

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT:Souder, Miller & AssociatesProject:Rattlesnake 13 12 FED 1HLab ID:2005393-024	Client Sample ID: S2-SurfaceCollection Date: 5/7/2020 11:54:00 AMMatrix: SOILReceived Date: 5/9/2020 7:15:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT	
Chloride	6000	300	mg/Kg	100	5/12/2020 1:39:11 PM	52410	
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)	380	9.4	mg/Kg	1	5/12/2020 11:12:15 AM	52384	
Motor Oil Range Organics (MRO)	460	47	mg/Kg	1	5/12/2020 11:12:15 AM	52384	
Surr: DNOP	114	55.1-146	%Rec	1	5/12/2020 11:12:15 AM	52384	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 9:48:17 PM	52369	
Surr: BFB	98.6	66.6-105	%Rec	1	5/11/2020 9:48:17 PM	52369	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.025	mg/Kg	1	5/11/2020 9:48:17 PM	52369	

EFA WETHOD OUZID. VOLATILES					Analysi.
Benzene	ND	0.025	mg/Kg	1	5/11/2020 9:48:17 PM
Toluene	ND	0.049	mg/Kg	1	5/11/2020 9:48:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2020 9:48:17 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2020 9:48:17 PM
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	5/11/2020 9:48:17 PM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 11:59:00 AM								
Lab ID: 2005393-025	Matrix: SOILReceived Date: 5/9/2020 7:15:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: JMT			
Chloride	ND	60	mg/Kg	20	5/12/2020 8:41:09 PM	52410			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/12/2020 12:00:14 PM	52384			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2020 12:00:14 PM	52384			
Surr: DNOP	102	55.1-146	%Rec	1	5/12/2020 12:00:14 PM	52384			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2020 10:11:57 PM	52369			
Surr: BFB	97.1	66.6-105	%Rec	1	5/11/2020 10:11:57 PM	52369			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.025	mg/Kg	1	5/11/2020 10:11:57 PM	52369			
Toluene	ND	0.050	mg/Kg	1	5/11/2020 10:11:57 PM	52369			
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2020 10:11:57 PM	52369			
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2020 10:11:57 PM	52369			
Surr: 4-Bromofluorobenzene	92.2	80-120	%Rec	1	5/11/2020 10:11:57 PM	52369			

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

Qualifiers:

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

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

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Hall Environmental Analysis I	Laboratory.	Inc.
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Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 FED 1H	-							
Lab ID: 2005393-026	Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual	Units	DF	Date Ana	lyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst	JMT
Chloride	17000	600		mg/Kg	200	5/12/2020	8:53:33 PM	52410
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS						Analyst	CLP
Diesel Range Organics (DRO)	570	96		mg/Kg	10	5/12/2020	12:24:12 PM	52384
Motor Oil Range Organics (MRO)	890	480		mg/Kg	10	5/12/2020	12:24:12 PM	52384
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020	12:24:12 PM	52384
EPA METHOD 8015D: GASOLINE RANG	GE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/11/2020	10:35:31 PM	52369
Surr: BFB	94.6	66.6-105		%Rec	1	5/11/2020	10:35:31 PM	52369
EPA METHOD 8021B: VOLATILES							Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2020	10:35:31 PM	52369
Toluene	ND	0.050		mg/Kg	1	5/11/2020	10:35:31 PM	52369
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2020	10:35:31 PM	52369
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2020	10:35:31 PM	52369
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	5/11/2020	10:35:31 PM	52369

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: S3-6"							
Project: Rattlesnake 13 12 FED 1H	Collection Date: 5/7/2020 12:08:00 PM							
Lab ID: 2005393-027	Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	1100	300	mg/Kg	100) 5/12/2020 2:16:25 PM	52410		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: CLP		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/12/2020 12:48:21 PN	1 52384		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2020 12:48:21 PN	1 52384		
Surr: DNOP	85.7	55.1-146	%Rec	1	5/12/2020 12:48:21 PN	1 52384		
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 10:59:18 PN	1 52369		
Surr: BFB	98.7	66.6-105	%Rec	1	5/11/2020 10:59:18 PM	1 52369		
EPA METHOD 8021B: VOLATILES					Analys	t: NSB		
Benzene	ND	0.025	mg/Kg	1	5/11/2020 10:59:18 PN	1 52369		
Toluene	ND	0.049	mg/Kg	1	5/11/2020 10:59:18 PN	1 52369		
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2020 10:59:18 PM	1 52369		
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2020 10:59:18 PN	1 52369		
Surr: 4-Bromofluorobenzene	93.6	80-120	%Rec	1	5/11/2020 10:59:18 PN	1 52369		

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: SW1						
Project: Rattlesnake 13 12 FED 1H Lab ID: 2005393-028	Collection Date: 5/7/2020 2:12:00 PM Matrix: SOIL Received Date: 5/9/2020 7:15:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT	
Chloride	1300	300	mg/Kg	100) 5/12/2020 2:53:38 PM	52410	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)	21	9.4	mg/Kg	1	5/12/2020 1:12:23 PM	52384	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2020 1:12:23 PM	52384	
Surr: DNOP	97.5	55.1-146	%Rec	1	5/12/2020 1:12:23 PM	52384	
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 11:23:18 PM	52369	
Surr: BFB	97.1	66.6-105	%Rec	1	5/11/2020 11:23:18 PM	52369	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.025	mg/Kg	1	5/11/2020 11:23:18 PM	52369	
Toluene	ND	0.049	mg/Kg	1	5/11/2020 11:23:18 PM	52369	
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2020 11:23:18 PM	52369	
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2020 11:23:18 PM	52369	
Surr: 4-Bromofluorobenzene	93.0	80-120	%Rec	1	5/11/2020 11:23:18 PM	52369	

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 FED 1H	Client Sample ID: SW2 Collection Date: 5/7/2020 2:17:00 PM						
Lab ID: 2005393-029	Matrix: SOIL	·					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT	
Chloride	120	60	mg/Kg	20	5/12/2020 9:05:57 PM	52410	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)	25	9.9	mg/Kg	1	5/12/2020 1:36:26 PM	52384	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2020 1:36:26 PM	52384	
Surr: DNOP	95.0	55.1-146	%Rec	1	5/12/2020 1:36:26 PM	52384	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2020 11:47:08 PM	52369	
Surr: BFB	98.6	66.6-105	%Rec	1	5/11/2020 11:47:08 PM	52369	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.025	mg/Kg	1	5/11/2020 11:47:08 PM	52369	
Toluene	ND	0.049	mg/Kg	1	5/11/2020 11:47:08 PM	52369	
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2020 11:47:08 PM	52369	
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2020 11:47:08 PM	52369	
Surr: 4-Bromofluorobenzene	91.1	80-120	%Rec	1	5/11/2020 11:47:08 PM	52369	

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 FED 1H		Client Sample ID: SW3 Collection Date: 5/7/2020 2:23:00 PM									
Lab ID: 2005393-030	Matrix: SOIL	Received Date: 5/9/2020 7:15:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	st: JMT					
Chloride	1600	300	mg/Kg	10	0 5/12/2020 3:18:27 PM	52410					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analy	st: CLP					
Diesel Range Organics (DRO)	40	9.2	mg/Kg	1	5/12/2020 2:00:31 PM	52384					
Motor Oil Range Organics (MRO)	54	46	mg/Kg	1	5/12/2020 2:00:31 PM	52384					
Surr: DNOP	93.2	55.1-146	%Rec	1	5/12/2020 2:00:31 PM	52384					
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	st: NSB					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2020 12:10:58 A	M 52369					
Surr: BFB	97.3	66.6-105	%Rec	1	5/12/2020 12:10:58 A	M 52369					
EPA METHOD 8021B: VOLATILES					Analys	st: NSB					
Benzene	ND	0.025	mg/Kg	1	5/12/2020 12:10:58 A	M 52369					
Toluene	ND	0.050	mg/Kg	1	5/12/2020 12:10:58 A	M 52369					
Ethylbenzene	ND	0.050	mg/Kg	1	5/12/2020 12:10:58 A	M 52369					
Xylenes, Total	ND	0.10	mg/Kg	1	5/12/2020 12:10:58 A	M 52369					
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	5/12/2020 12:10:58 A	M 52369					

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 FED 1H			ient Sample II		V4 //2020 2:27:00 PM				
Lab ID: 2005393-031	Matrix: SOIL	Received Date: 5/9/2020 7:15:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: JMT			
Chloride	230	60	mg/Kg	20	5/13/2020 10:48:32 AM	52410			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: CLP			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/12/2020 2:24:32 PM	52384			
Motor Oil Range Organics (MRO)	49	49	mg/Kg	1	5/12/2020 2:24:32 PM	52384			
Surr: DNOP	91.6	55.1-146	%Rec	1	5/12/2020 2:24:32 PM	52384			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2020 1:22:31 AM	52369			
Surr: BFB	103	66.6-105	%Rec	1	5/12/2020 1:22:31 AM	52369			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.025	mg/Kg	1	5/12/2020 1:22:31 AM	52369			
Toluene	ND	0.049	mg/Kg	1	5/12/2020 1:22:31 AM	52369			
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2020 1:22:31 AM	52369			
Xylenes, Total	ND	0.099	mg/Kg	1	5/12/2020 1:22:31 AM	52369			
Surr: 4-Bromofluorobenzene	97.3	80-120	%Rec	1	5/12/2020 1:22:31 AM	52369			

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

Qualifiers:

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

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

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Lab Order 2005393

Date Reported: 5/14/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 FED 1H	Client Sample ID: SW5 Collection Date: 5/7/2020 2:30:00 PM									
Lab ID: 2005393-032	Matrix: SOIL	Received Date: 5/9/2020 7:15:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JMT				
Chloride	570	300	mg/Kg	100) 5/12/2020 3:43:17 PM	52410				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP				
Diesel Range Organics (DRO)	16	9.9	mg/Kg	1	5/12/2020 2:48:37 PM	52384				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2020 2:48:37 PM	52384				
Surr: DNOP	98.0	55.1-146	%Rec	1	5/12/2020 2:48:37 PM	52384				
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2020 1:46:24 AM	52369				
Surr: BFB	97.8	66.6-105	%Rec	1	5/12/2020 1:46:24 AM	52369				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.025	mg/Kg	1	5/12/2020 1:46:24 AM	52369				
Toluene	ND	0.049	mg/Kg	1	5/12/2020 1:46:24 AM	52369				
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2020 1:46:24 AM	52369				
Xylenes, Total	ND	0.098	mg/Kg	1	5/12/2020 1:46:24 AM	52369				
Surr: 4-Bromofluorobenzene	92.7	80-120	%Rec	1	5/12/2020 1:46:24 AM	52369				

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

Qualifiers:

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

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

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Client: Project:	· · · · · · · · · · · · · · · · · · ·	ider, Miller & Associates tlesnake 13 12 FED 1H									
Sample ID: M	B-52371	SampTyp	e: mb	olk	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID: PI	BS	Batch II	D: 523	371	RunNo: 68789						
Prep Date:	5/10/2020	Analysis Dat	e: 5/	10/2020	SeqNo: 2380504			Units: mg/Kg			
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chionae		ND	1.5								
Sample ID: LO	CS-52371	SampTyp	e: Ics		Tes	PA Method	5				
Client ID: LO	CSS	Batch II	D: 523	371	F	tunNo: 68	8789				
Prep Date:	5/10/2020	Analysis Dat	e: 5/	10/2020	S	eqNo: 23	380505	Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.9	90	110			
Sample ID: M	B-52410	SampTyp	e: mb	olk	Tes	tCode: EF	PA Method	300.0: Anion:	S		
Client ID: PI	BS	Batch II	D: 524	410	F	8818					
Prep Date:	5/12/2020	Analysis Dat	e: 5/	12/2020	S	eqNo: 23	382902	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LO	CS-52410	SampTyp	e: Ics		Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID: LO	CSS	Batch II	D: 524	410	F	unNo: 68	8818				
Prep Date:	5/12/2020	Analysis Dat	e: 5/	12/2020	SeqNo: 2382903			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.3	90	110			

Qualifiers:

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- ND Not Detected at the Reporting Limit
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- 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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14-May-20

	Miller & Associates ke 13 12 FED 1H	
Sample ID: LCS-52381	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 52381	RunNo: 68809
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2381696 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	47 10 50.00	0 93.6 70 130
Surr: DNOP	4.5 5.000	89.0 55.1 146
Sample ID: MB-52381	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 52381	RunNo: 68809
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2381697 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	9.7 10.00	97.0 55.1 146
Sample ID: MB-52384	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 52384	RunNo: 68819
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2381742 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	9.2 10.00	92.2 55.1 146
Sample ID: LCS-52384	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 52384	RunNo: 68819
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2381743 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 10 50.00	0 91.4 70 130
Surr: DNOP	4.1 5.000	82.3 55.1 146
Sample ID: 2005393-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: L8-1'	Batch ID: 52384	RunNo: 68819
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2381748 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48 10 49.80	0 97.3 47.4 136

Diesel Range Organics (DRO) Surr: DNOP

Qualifiers:

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

в Analyte detected in the associated Method Blank

91.0

55.1

146

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

4.980

4.5

WO#: 2005393

14-May-20

Client:	Souder, N	/liller & A	ssociate	s							
Project:	Rattlesna	ke 13 12 F	ED 1H								
Sample ID:	2005393-021AMSI) SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	L8-1'	Batch	n ID: 52	384	F	RunNo: 68	3819				
Prep Date:	5/11/2020	Analysis D	0ate: 5/	12/2020	S	SeqNo: 2	381749	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	45	9.5	47.66	0	94.0	47.4	136	7.86	43.4	
Surr: DNOP)	4.2		4.766		87.6	55.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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14-May-20

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

	snake 13 12 F		5								
Sample ID: mb-52369	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e		
Client ID: PBS	Batch	h ID: 52	369	F	RunNo: 68802						
Prep Date: 5/9/2020	Analysis D	Date: 5/	11/2020	S	SeqNo: 2	380989	Units: mg/k	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	980		1000		98.2	66.6	105				
Sample ID: Ics-52369	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	е		
Client ID: LCSS	Batch	h ID: 52	369	F	RunNo: 68	8802					
Prep Date: 5/9/2020	Analysis D	Date: 5/	11/2020	S	SeqNo: 23	380990	Units: mg/ł	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	80	120				
Surr: BFB	1100		1000		106	66.6	105			S	
Sample ID: 2005393-022a	ms SampT	Гуре: МS	5	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S1-Surface	Batch	h ID: 52	369	F	RunNo: 68	8802					
Prep Date: 5/9/2020	Analysis D	Date: 5/	11/2020	S	SeqNo: 2	380993	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.7	80	120				
Surr: BFB	1000		1000		104	66.6	105				
Sample ID: 2005393-022a	msd SampT	Гуре: М S	D	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e		
Client ID: S1-Surface	Batch	h ID: 52	369	F	RunNo: 68	8802					
Prep Date: 5/9/2020	Analysis D	Date: 5/	11/2020	S	SeqNo: 23	380994	Units: mg/ł	٢g			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	5.0	24.78	0	89.9	80	120	1.54	20		
Surr: BFB	1000		991.1		102	66.6	105	0	0		

Qualifiers:

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

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14-May-20

	Miller & A ike 13 12 I									
Sample ID: mb-52369	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 52	369	F	RunNo: 6	8802				
Prep Date: 5/9/2020	Analysis [Date: 5/	11/2020	S	381030	Units: mg/k	Inits: 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	1 000		04.4	90	100			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	80	120			
Sample ID: LCS-52369		Type: LC			tCode: El					
Client ID: LCSS	Batc	h ID: 52	369	F	RunNo: 6	8802				
Prep Date: 5/9/2020	Analysis [Date: 5/	11/2020	S	SeqNo: 2	381031	Units: mg/k	٢g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			
Sample ID: 2005393-021ams	Samp	Туре: М	6	Tes	tCode: El					
Client ID: L8-1'	Batc	h ID: 52	369	RunNo: 68802						
Prep Date: 5/9/2020	Analysis [Date: 5/	11/2020	S	SeqNo: 2	381033	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	0.9833	0	84.3	78.5	119			
Toluene	0.88	0.049	0.9833	0	89.3	75.7	123			
Ethylbenzene	0.88	0.049	0.9833	0	89.5	74.3	126			
Xylenes, Total	2.6	0.098	2.950	0	88.6	72.9	130			
Surr: 4-Bromofluorobenzene	0.92		0.9833		93.6	80	120			
Sample ID: 2005393-021ams	d Samp	Туре: М	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L8-1'	Batc	h ID: 52	369	F	RunNo: 6	8802				
Prep Date: 5/9/2020	Analysis [Date: 5/	11/2020	5	SeqNo: 2	381034	Units: mg/h	٢g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9872	0	97.7	78.5	119	15.1	20	
Toluene	1.0	0.049	0.9872	0	104	75.7	123	16.0	20	
Ethylbenzene	1.0	0.049	0.9872	0	104	74.3	126	15.0	20	
Xylenes, Total	3.1	0.099	2.962	0	104	72.9	130	16.0	20	
Surr: 4-Bromofluorobenzene	0.95		0.9872		95.8	80	120	0	0	

Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

2005393

14-May-20

	Miller & A lke 13 12 I		s								
Sample ID: mb-52366	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List		
Client ID: PBS	Batc	h ID: 523	366	RunNo: 68812							
Prep Date: 5/9/2020	Analysis [Date: 5/	11/2020	SeqNo: 2381417			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	0.44		0.5000		88.1	70	130				
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.1	70	130				
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130				
Surr: Toluene-d8	0.50		0.5000		101	70	130				
Sample ID: Ics-52366	Samp	Гуре: LC	S	Tes	tCode: EF	List					
Client ID: LCSS	Batc	h ID: 523	366	F	RunNo: 68	8812					
Prep Date: 5/9/2020	Analysis [Date: 5/ *	11/2020	S	SeqNo: 2	381418	Units: mg/K	Jnits: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.025	1.000	0	95.4	70	130				
Toluene	0.99	0.050	1.000	0	98.6	70	130				
Ethylbenzene	1.1	0.050	1.000	0	106	70	130				
Xylenes, Total	3.1	0.10	3.000	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.8	70	130				
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.9	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130				
Surr: Toluene-d8	0.49		0.5000		98.7	70	130				
Sample ID: 2005393-001ams	Samp	Гуре: МS	;	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List		
Client ID: L1- Surface	Batc	h ID: 523	366	F	RunNo: 68	8812					
Prep Date: 5/9/2020	Analysis [Date: 5/	11/2020	5	SeqNo: 2	381476	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.12	0.9814	0	95.3	70	130				
Toluene	1.0	0.25	0.9814	0	107	70	130				
Ethylbenzene	1.3	0.25	0.9814	0.1945	108	70	130				
Xylenes, Total	4.2	0.49	2.944	1.101	106	70	130				
Surr: 1,2-Dichloroethane-d4	2.1		2.453		87.6	70	130				
Surr: 4-Bromofluorobenzene	2.0		2.453		81.5	70	130				
Surr: Dibromofluoromethane	2.5		2.453		103	70	130				
Surr: Toluene-d8	2.5		2.453		100	70	130				

Qualifiers:

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- D Sample Diluted Due to Matrix
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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

2005393

14-May-20

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project:	Rattlesnake	13 12 FED 1H	
Sample ID: 2	2005393-001amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List
Client ID: L	1- Surface	Batch ID: 52366	RunNo: 68812

Souder, Miller & Associates

Client ID: L1- Surface	Batch	n ID: 52	366	R	unNo: 6	8812				
Prep Date: 5/9/2020	Analysis D	Analysis Date: 5/11/2020			eqNo: 2	381477	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.12	0.9881	0	81.6	70	130	14.9	20	
Toluene	0.86	0.25	0.9881	0	86.7	70	130	20.0	20	R
Ethylbenzene	1.0	0.25	0.9881	0.1945	85.9	70	130	18.2	0	
Xylenes, Total	3.6	0.49	2.964	1.101	84.1	70	130	16.0	0	
Surr: 1,2-Dichloroethane-d4	2.2		2.470		88.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	2.0		2.470		81.1	70	130	0	0	
Surr: Dibromofluoromethane	2.5		2.470		101	70	130	0	0	
Surr: Toluene-d8	2.5		2.470		99.8	70	130	0	0	

Qualifiers:

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

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

WO#: 2005393

14-May-20

460

489.2

Client: Project:	· · · · · · · · · · · · · · · · · · ·	filler & As ke 13 12 F										
Sample ID:	mb-52366	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	PBS	Batch	ID: 52	366	F	RunNo: 68812						
Prep Date:	5/9/2020	Analysis D	ate: 5/	11/2020	S	SeqNo: 23	381443	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 470	5.0	500.0		93.4	70	130				
Sample ID:	lcs-52366	SampT	ype: LC	s	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	LCSS	Batch	ID: 52	366	F	RunNo: 68812						
Prep Date:	5/9/2020	Analysis D	ate: 5/	11/2020	S	SeqNo: 23	381444	Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
-	ge Organics (GRO)	21	5.0	25.00	0	84.0	70	130				
Surr: BFB		460		500.0		91.4	70	130				
Sample ID:	2005393-002ams	SampT	ype: M \$	6	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range		
Client ID:	L1-1'	Batch	ID: 52	366	F	RunNo: 68	8812					
Prep Date:	5/9/2020	Analysis D	ate: 5/	11/2020	5	SeqNo: 23	381499	Units: mg/k	ζg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	ge Organics (GRO)	20	5.0	24.90	0	79.2	70	130				
Surr: BFB		470		498.0		94.8	70	130				
Sample ID:	2005393-002amsd	SampT	ype: MS	SD	TestCode: EPA Method 8015D Mod: Gasoline Range							
Sample ID.	2005595-002amsu	Camp .										
Client ID:		• •	ID: 52	366	F	RunNo: 68	8812					
	L1-1'	• •				RunNo: 68 SeqNo: 2 3		Units: mg/k	ζg			
Client ID:	L1-1'	Batch		11/2020		SeqNo: 23		Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual	

Qualifiers:

Surr: BFB

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

B Analyte detected in the associated Method Blank

93.2

70

130

0

0

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

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14-May-20

ENVIRO ANALY LABOR		Hall Environme TEL: 505-345-3 Website: www	49) Albuquero 1975 FAX:	01 Hawk que, NM 505-34.	tins NE 87109 5-4107	Sar	nple Log-In C	Page 8 Check List
Client Name:	SMA-CARLSBAD	Work Order Num	ber: 200	5393			RcptNo:	1
Received By:	Isaiah Ortiz	5/9/2020 7:15:00 A	м		I	~0	24	
Completed By: Reviewed By:	Isaiah Ortiz \$5 4 Leno	5/9/2020 7:44:35 A	м		I	-0	2-14	
Chain of Custo	<u>ody</u>							
1. Is Chain of Cus	tody sufficiently complete	?	Yes		No		Not Present	
2. How was the sa	ample delivered?		<u>Cou</u>	<u>rier</u>				
Log In 3. Was an attemp	t made to cool the sample	es?	Yes		No			
	es received at a temperati		Yes		No			
5. Sample(s) in pr			Yes		No			
	e volume for indicated tes	at/a)2	Yes		No			
	cept VOA and ONG) proj							
	e added to bottles?	seny preserved?	Yes Yes		No No		NA 🗌	
9. Received at leas	st 1 vial with headspace <	1/4" for AQ VOA?	Yes		No		NA 🗹	-
0. Were any samp	le containers received bro	oken?	Yes		No		# of preserved	20
	match bottle labels? cies on chain of custody)		Yes		No		bottles checked for pH: (<2 or	>12 unless noted)
2. Are matrices co	rrectly identified on Chain	of Custody?	Yes	~	No		Adjusted?	
	nalyses were requested?		Yes	~	No			
	times able to be met? tomer for authorization.)		Yes		No		Checked by:	
pecial Handlin	g (if applicable)							
15. Was client notif	ied of all discrepancies w	ith this order?	Yes		No		NA 🗹	
Person N By Whom		Date:	1			-		
Regarding		Via:	eM		Phone	Fax	In Person	
Client Ins								
16. Additional remain	arks:							
17. <u>Cooler Inform</u> Cooler No	ation Temp ⁰C Condition	Seal Intact Seal No	Seal D	ate	Signed	By	1	
1		Not Present						

.

Page 1 of 1

Olient: Matter Environmentation Millip Address:	O	hain	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:										
Indication Project Name: Monthalenvironmentation Indicates: Calific Andrease	Client:	SIN	A		Standarc		3 day			A N A		NV STS	Ĩ I	ONME		>
Ing Address: A					Project Nam		-				w halle	vironn	nenta	Com		-
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June 18, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2006676

Dear Ashley Maxwell:

RE: Rattlesnake 13 12

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/12/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12			ient Sample II Collection Date		-2' 1/2020 9:10:00 AM	
Lab ID: 2006676-001	Matrix: SOIL		Received Date	e: 6/1	2/2020 9:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	3300	150	mg/Kg	50	6/17/2020 4:00:41 AM	53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	15	9.5	mg/Kg	1	6/13/2020 1:02:06 PM	53052
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/13/2020 1:02:06 PM	53052
Surr: DNOP	113	55.1-146	%Rec	1	6/13/2020 1:02:06 PM	53052
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/13/2020 10:36:28 PM	1 53051
Surr: BFB	81.9	66.6-105	%Rec	1	6/13/2020 10:36:28 PM	1 53051
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	6/13/2020 10:36:28 PM	1 53051
Toluene	ND	0.049	mg/Kg	1	6/13/2020 10:36:28 PM	1 53051
Ethylbenzene	ND	0.049	mg/Kg	1	6/13/2020 10:36:28 PM	1 53051
Xylenes, Total	ND	0.098	mg/Kg	1	6/13/2020 10:36:28 PM	1 53051
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/13/2020 10:36:28 PM	1 53051

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

Qualifiers:

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

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

Page 1 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates			ient Sample II			r
Project: Rattlesnake 13 12 Lab ID: 2006676-002	Matrix: SOIL	·			11/2020 9:12:00 AM 12/2020 9:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	/st: JMT
Chloride	8700	300	mg/Kg	100	0 6/17/2020 4:13:02 A	M 53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Anal	/st: BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	6/13/2020 1:12:22 P	M 53052
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/13/2020 1:12:22 P	M 53052
Surr: DNOP	104	55.1-146	%Rec	1	6/13/2020 1:12:22 P	M 53052
EPA METHOD 8015D: GASOLINE RANG	E				Anal	/st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/13/2020 11:00:04	PM 53051
Surr: BFB	81.2	66.6-105	%Rec	1	6/13/2020 11:00:04	PM 53051
EPA METHOD 8021B: VOLATILES					Anal	/st: NSB
Benzene	ND	0.024	mg/Kg	1	6/13/2020 11:00:04	PM 53051
Toluene	ND	0.049	mg/Kg	1	6/13/2020 11:00:04	PM 53051
Ethylbenzene	ND	0.049	mg/Kg	1	6/13/2020 11:00:04	PM 53051
Xylenes, Total	ND	0.097	mg/Kg	1	6/13/2020 11:00:04	PM 53051
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/13/2020 11:00:04	PM 53051

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

Qualifiers:

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

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

Page 2 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12			ient Sample II Collection Date		-4' 1/2020 9:51:00 AM	
Lab ID: 2006676-003	Matrix: SOIL		Received Date	e: 6/1	2/2020 9:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	6600	300	mg/Kg	100	6/17/2020 4:25:22 AM	53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/13/2020 1:22:38 PM	53052
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/13/2020 1:22:38 PM	53052
Surr: DNOP	100	55.1-146	%Rec	1	6/13/2020 1:22:38 PM	53052
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/13/2020 11:23:43 PM	53051
Surr: BFB	81.9	66.6-105	%Rec	1	6/13/2020 11:23:43 PM	53051
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/13/2020 11:23:43 PM	53051
Toluene	ND	0.050	mg/Kg	1	6/13/2020 11:23:43 PM	53051
Ethylbenzene	ND	0.050	mg/Kg	1	6/13/2020 11:23:43 PM	53051
Xylenes, Total	ND	0.099	mg/Kg	1	6/13/2020 11:23:43 PM	53051
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/13/2020 11:23:43 PM	53051

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

Qualifiers:

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

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

Page 3 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L1	-5'	
Project: Rattlesnake 13 12			Collection Dat	e: 6/1	11/2020 9:52:00 AM	
Lab ID: 2006676-004	Matrix: SOIL		Received Dat	e: 6/1	12/2020 9:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	3400	150	mg/Kg	50	6/17/2020 4:37:43 AM	53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/13/2020 1:33:13 PM	53052
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/13/2020 1:33:13 PM	53052
Surr: DNOP	99.1	55.1-146	%Rec	1	6/13/2020 1:33:13 PM	53052
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/13/2020 11:47:12 PM	53051
Surr: BFB	82.4	66.6-105	%Rec	1	6/13/2020 11:47:12 PM	53051
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/13/2020 11:47:12 PM	53051
Toluene	ND	0.048	mg/Kg	1	6/13/2020 11:47:12 PM	53051
Ethylbenzene	ND	0.048	mg/Kg	1	6/13/2020 11:47:12 PM	53051
Xylenes, Total	ND	0.096	mg/Kg	1	6/13/2020 11:47:12 PM	53051
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	6/13/2020 11:47:12 PM	53051

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

Qualifiers:

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

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

Page 4 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13 12 Lab ID: 2006676 005	Motoring SOIL		Collect		e: 6/1	1/2020 10:00:00 AM	[
Lab ID: 2006676-005	Matrix: SOIL		Recei	ved Dat	e: 6/1.	2/2020 9:35:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: JMT
Chloride	10000	600		mg/Kg	200	6/17/2020 4:50:03 AM	53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analy	st: BRM
Diesel Range Organics (DRO)	2400	190		mg/Kg	20	6/13/2020 1:43:42 PM	53052
Motor Oil Range Organics (MRO)	1600	970		mg/Kg	20	6/13/2020 1:43:42 PM	53052
Surr: DNOP	0	55.1-146	S	%Rec	20	6/13/2020 1:43:42 PM	53052
EPA METHOD 8015D: GASOLINE RANG	E					Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/14/2020 12:10:37 A	M 53051
Surr: BFB	80.6	66.6-105		%Rec	1	6/14/2020 12:10:37 A	M 53051
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	ND	0.023		mg/Kg	1	6/14/2020 12:10:37 A	M 53051
Toluene	ND	0.046		mg/Kg	1	6/14/2020 12:10:37 A	M 53051
Ethylbenzene	ND	0.046		mg/Kg	1	6/14/2020 12:10:37 A	M 53051
Xylenes, Total	ND	0.093		mg/Kg	1	6/14/2020 12:10:37 A	M 53051
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/14/2020 12:10:37 A	M 53051

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

Qualifiers:

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

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

Page 5 of 21

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:L2	-3'	
Project: Rattlesnake 13 12		(Collection Dat	e: 6/1	1/2020 10:02:00 AM	
Lab ID: 2006676-006	Matrix: SOIL		Received Dat	e: 6/1	2/2020 9:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	2900	150	mg/Kg	50	6/17/2020 5:02:23 AM	53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ТОМ
Diesel Range Organics (DRO)	39	9.6	mg/Kg	1	6/14/2020 1:58:38 PM	53056
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/14/2020 1:58:38 PM	53056
Surr: DNOP	145	55.1-146	%Rec	1	6/14/2020 1:58:38 PM	53056
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 2:55:13 AM	53054
Surr: BFB	81.9	66.6-105	%Rec	1	6/14/2020 2:55:13 AM	53054
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/14/2020 2:55:13 AM	53054
Toluene	ND	0.049	mg/Kg	1	6/14/2020 2:55:13 AM	53054
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 2:55:13 AM	53054
Xylenes, Total	ND	0.098	mg/Kg	1	6/14/2020 2:55:13 AM	53054
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/14/2020 2:55:13 AM	53054

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & AssociatesProject: Rattlesnake 13 12Lab ID: 2006676-007	Matrix: SOIL			e: 6/1	2-4' 11/2020 10:04:00 AM 12/2020 9:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	150	60	mg/Kg	20	6/15/2020 5:43:37 PM	53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/13/2020 3:16:54 PM	53056
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/13/2020 3:16:54 PM	53056
Surr: DNOP	89.0	55.1-146	%Rec	1	6/13/2020 3:16:54 PM	53056
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 4:05:38 AM	53054
Surr: BFB	83.2	66.6-105	%Rec	1	6/14/2020 4:05:38 AM	53054
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	6/14/2020 4:05:38 AM	53054
Toluene	ND	0.049	mg/Kg	1	6/14/2020 4:05:38 AM	53054
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 4:05:38 AM	53054
Xylenes, Total	ND	0.097	mg/Kg	1	6/14/2020 4:05:38 AM	53054
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/14/2020 4:05:38 AM	53054

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample I	D: L4	-3'	
Project: Rattlesnake 13 12		(Collection Dat	e: 6/1	1/2020 10:26:00 AM	
Lab ID: 2006676-008	Matrix: SOIL		Received Dat	e: 6/1	12/2020 9:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	440	60	mg/Kg	20	6/15/2020 5:56:02 PM	53081
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	12	9.3	mg/Kg	1	6/13/2020 3:27:17 PM	53056
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/13/2020 3:27:17 PM	53056
Surr: DNOP	100	55.1-146	%Rec	1	6/13/2020 3:27:17 PM	53056
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 5:15:59 AM	53054
Surr: BFB	81.5	66.6-105	%Rec	1	6/14/2020 5:15:59 AM	53054
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	6/14/2020 5:15:59 AM	53054
Toluene	ND	0.049	mg/Kg	1	6/14/2020 5:15:59 AM	53054
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 5:15:59 AM	53054
Xylenes, Total	ND	0.099	mg/Kg	1	6/14/2020 5:15:59 AM	53054
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/14/2020 5:15:59 AM	53054

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: L4	-4'				
Project: Rattlesnake 13 12		(Collection Dat	e: 6/1	1/2020 10:29:00 AM				
Lab ID: 2006676-009	Matrix: SOIL	Received Date: 6/12/2020 9:35:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	јмт			
Chloride	5500	300	mg/Kg	100	0 6/17/2020 5:14:44 AM	53081			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	13	9.3	mg/Kg	1	6/13/2020 3:37:39 PM	53056			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/13/2020 3:37:39 PM	53056			
Surr: DNOP	94.5	55.1-146	%Rec	1	6/13/2020 3:37:39 PM	53056			
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/14/2020 5:39:37 AM	53054			
Surr: BFB	82.5	66.6-105	%Rec	1	6/14/2020 5:39:37 AM	53054			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Benzene	ND	0.025	mg/Kg	1	6/14/2020 5:39:37 AM	53054			
Toluene	ND	0.050	mg/Kg	1	6/14/2020 5:39:37 AM	53054			
Ethylbenzene	ND	0.050	mg/Kg	1	6/14/2020 5:39:37 AM	53054			
Xylenes, Total	ND	0.099	mg/Kg	1	6/14/2020 5:39:37 AM	53054			
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/14/2020 5:39:37 AM	53054			

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT:Souder, Miller & AssociatesProject:Rattlesnake 13 12Lab ID:2006676-010	Client Sample ID: L4-5' Collection Date: 6/11/2020 10:33:00 AM Matrix: SOIL Received Date: 6/12/2020 9:35:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	MRA			
Chloride	140	60	mg/Kg	20	6/15/2020 6:20:50 PM	53081			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/13/2020 3:47:59 PM	53056			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/13/2020 3:47:59 PM	53056			
Surr: DNOP	103	55.1-146	%Rec	1	6/13/2020 3:47:59 PM	53056			
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 6:03:10 AM	53054			
Surr: BFB	82.1	66.6-105	%Rec	1	6/14/2020 6:03:10 AM	53054			
EPA METHOD 8021B: VOLATILES					Analyst:	NSB			
Benzene	ND	0.025	mg/Kg	1	6/14/2020 6:03:10 AM	53054			
Toluene	ND	0.049	mg/Kg	1	6/14/2020 6:03:10 AM	53054			
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 6:03:10 AM	53054			
Xylenes, Total	ND	0.099	mg/Kg	1	6/14/2020 6:03:10 AM	53054			
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/14/2020 6:03:10 AM	53054			

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L7	/-1'				
Project: Rattlesnake 13 12		(Collection Dat	e: 6/1	11/2020 9:48:00 AM				
Lab ID: 2006676-011	Matrix: SOIL	Received Date: 6/12/2020 9:35:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	MRA			
Chloride	ND	60	mg/Kg	20	6/15/2020 6:33:15 PM	53081			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/13/2020 3:58:16 PM	53056			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/13/2020 3:58:16 PM	53056			
Surr: DNOP	97.0	55.1-146	%Rec	1	6/13/2020 3:58:16 PM	53056			
EPA METHOD 8015D: GASOLINE RANGE	l .				Analyst:	NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 6:26:41 AM	53054			
Surr: BFB	80.8	66.6-105	%Rec	1	6/14/2020 6:26:41 AM	53054			
EPA METHOD 8021B: VOLATILES					Analyst:	NSB			
Benzene	ND	0.024	mg/Kg	1	6/14/2020 6:26:41 AM	53054			
Toluene	ND	0.049	mg/Kg	1	6/14/2020 6:26:41 AM	53054			
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 6:26:41 AM	53054			
Xylenes, Total	ND	0.098	mg/Kg	1	6/14/2020 6:26:41 AM	53054			
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/14/2020 6:26:41 AM	53054			

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

Qualifiers:

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

в Analyte detected in the associated Method Blank

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

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Analytical Report
Lab Order 2006676

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: S3-1'									
Project: Rattlesnake 13 12		(Collection Dat	e: 6/1	1/2020 10:50:00 AM					
Lab ID: 2006676-012	Matrix: SOIL	Received Date: 6/12/2020 9:35:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	MRA				
Chloride	ND	60	mg/Kg	20	6/15/2020 7:10:29 PM	53081				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/13/2020 4:08:33 PM	53056				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/13/2020 4:08:33 PM	53056				
Surr: DNOP	102	55.1-146	%Rec	1	6/13/2020 4:08:33 PM	53056				
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 6:50:12 AM	53054				
Surr: BFB	80.8	66.6-105	%Rec	1	6/14/2020 6:50:12 AM	53054				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.024	mg/Kg	1	6/14/2020 6:50:12 AM	53054				
Toluene	ND	0.049	mg/Kg	1	6/14/2020 6:50:12 AM	53054				
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 6:50:12 AM	53054				
Xylenes, Total	ND	0.098	mg/Kg	1	6/14/2020 6:50:12 AM	53054				
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/14/2020 6:50:12 AM	53054				

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

Qualifiers:

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

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

RL Reporting Limit

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Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

6/14/2020 7:13:43 AM 53054

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V1						
Project: Rattlesnake 13 12		(Collection Dat	e: 6/1	1/2020 10:53:00 AM						
Lab ID: 2006676-013	Matrix: SOIL	Received Date: 6/12/2020 9:35:00 AM									
Analyses	Result	RL	RL Qual Units		DF Date Analyzed						
EPA METHOD 300.0: ANIONS					Analyst:	MRA					
Chloride	ND	59	mg/Kg	20	6/15/2020 7:22:54 PM	53081					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM					
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/13/2020 4:18:48 PM	53056					
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/13/2020 4:18:48 PM	53056					
Surr: DNOP	134	55.1-146	%Rec	1	6/13/2020 4:18:48 PM	53056					
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 7:13:43 AM	53054					
Surr: BFB	81.7	66.6-105	%Rec	1	6/14/2020 7:13:43 AM	53054					
EPA METHOD 8021B: VOLATILES					Analyst:	NSB					
Benzene	ND	0.024	mg/Kg	1	6/14/2020 7:13:43 AM	53054					
Toluene	ND	0.049	mg/Kg	1	6/14/2020 7:13:43 AM	53054					
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 7:13:43 AM	53054					
Xylenes, Total	ND	0.098	mg/Kg	1	6/14/2020 7:13:43 AM	53054					

103

80-120

%Rec

1

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006676

Date Reported: 6/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	W2				
Project: Rattlesnake 13 12		(Collection Dat	e: 6/	11/2020 10:55:00 AM				
Lab ID: 2006676-014	Matrix: SOIL	Received Date: 6/12/2020 9:35:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	MRA			
Chloride	ND	60	mg/Kg	20	6/15/2020 7:35:19 PM	53081			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM			
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/13/2020 4:29:00 PM	53056			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/13/2020 4:29:00 PM	53056			
Surr: DNOP	112	55.1-146	%Rec	1	6/13/2020 4:29:00 PM	53056			
EPA METHOD 8015D: GASOLINE RANGE	Ξ				Analyst:	NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2020 7:37:13 AM	53054			
Surr: BFB	82.6	66.6-105	%Rec	1	6/14/2020 7:37:13 AM	53054			
EPA METHOD 8021B: VOLATILES					Analyst:	NSB			
Benzene	ND	0.025	mg/Kg	1	6/14/2020 7:37:13 AM	53054			
Toluene	ND	0.049	mg/Kg	1	6/14/2020 7:37:13 AM	53054			
Ethylbenzene	ND	0.049	mg/Kg	1	6/14/2020 7:37:13 AM	53054			
Xylenes, Total	ND	0.099	mg/Kg	1	6/14/2020 7:37:13 AM	53054			
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/14/2020 7:37:13 AM	53054			

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

Qualifiers:

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

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

RL Reporting Limit Page 14 of 21

Client: Project:	Souder, Miller & A Rattlesnake 13 12	Associate	es							
Sample ID: MB-530	081 Samp	Type: m k	olk	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: PBS	Bato	h ID: 53	081	F	RunNo: 69	665				
Prep Date: 6/15/2	020 Analysis I	Date: 6/	15/2020	S	SeqNo: 24	18351	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-53	081 Samp	Type: Ics	5	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: LCSS	Bato	h ID: 53	081	F	RunNo: 69	665				
Prep Date: 6/15/2	020 Analysis I	Date: 6/	15/2020	S	SeqNo: 24	18352	Units: mg/K	g		
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:

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

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

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2006676

18-Jun-20

WO#:

Released to Imaging: 2/1/2023 11:54:11 AM

	Souder, Miller & A Rattlesnake 13 12	Associate	es								
Sample ID: LCS-530	052 Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Bate	ch ID: 530	052	R	RunNo: 69614						
Prep Date: 6/12/20	Analysis	Date: 6/	13/2020	S	SeqNo: 2416221			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (D	RO) 62	10	50.00	0	125	70	130				
Surr: DNOP	5.6		5.000		113	55.1	146				
Sample ID: MB-530	52 Samp	туре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Bate	ch ID: 530	052	R	RunNo: 69	9614					
Prep Date: 6/12/20	Analysis	Date: 6/	13/2020	S	SeqNo: 24	16222	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (D	,	10									
Motor Oil Range Organics		50	40.00		404	FF A	140				
Surr: DNOP	13		10.00		134	55.1	146				
Sample ID: 2006676	-006AMS Samp	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: L2-3'	Bate	ch ID: 530	056	R	RunNo: 6 9	9614					
Prep Date: 6/12/20	Analysis	Date: 6/	13/2020	SeqNo: 2416312 Units: mg/K				(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (D	,	9.1	45.66	39.48	158	47.4	136			S	
Surr: DNOP	5.4		4.566		117	55.1	146				
Sample ID: 2006676	-006AMSD Samp	Type: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: L2-3'	Bate	ch ID: 530	056	R	RunNo: 6 9	9614					
Prep Date: 6/12/20	Analysis	Date: 6/	13/2020	S	SeqNo: 24	16313	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	rtooun	I QL					·				
,		10	49.80	39.48	97.5	47.4	136	23.4	43.4		
							0		43.4 0		
Diesel Range Organics (D	RO) 88 5.9		49.80 4.980	39.48	97.5 118	47.4 55.1	136	23.4 0	0		
Diesel Range Organics (D Surr: DNOP	RO) 88 5.9 056 Samp	10	49.80 4.980	39.48 Tesi	97.5 118	47.4 55.1 PA Method	136 146	23.4 0	0		
Diesel Range Organics (D Surr: DNOP Sample ID: LCS-530	RO) 88 5.9 056 S amp Bate	10 Type: LC	49.80 4.980 S 056	39.48 Tes R	97.5 118 tCode: EF	47.4 55.1 PA Method 9614	136 146	23.4 0 esel Range	0		
Diesel Range Organics (D Surr: DNOP Sample ID: LCS-530 Client ID: LCSS	RO) 88 5.9 056 S amp Bate	10 Type: LC ch ID: 530	49.80 4.980 S 056 13/2020	39.48 Tes R	97.5 118 tCode: EF RunNo: 69 SeqNo: 24	47.4 55.1 PA Method 9614	136 146 8015M/D: Die	23.4 0 esel Range	0	Qual	
Diesel Range Organics (D Surr: DNOP Sample ID: LCS-530 Client ID: LCSS Prep Date: 6/12/20	RO) 88 5.9 056 Samp Bate 020 Analysis Result	10 Type: LC ch ID: 53(Date: 6/	49.80 4.980 S 056 13/2020	39.48 Tesi R S	97.5 118 tCode: EF RunNo: 69 SeqNo: 24	47.4 55.1 PA Method 9614 416335	136 146 8015M/D: Die Units: mg/K	23.4 0 esel Rango	0 e Organics	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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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	uder, Miller & Automatic A	Associate	es							
Sample ID: MB-53056	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Bate	ch ID: 53	056	F	RunNo: 6	9614				
Prep Date: 6/12/2020	Analysis	Date: 6/	13/2020	S	SeqNo: 24	416336	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRC) ND	10								
Motor Oil Range Organics (M	RO) ND	50								
Surr: DNOP	12		10.00		124	55.1	146			

Qualifiers:

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

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

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Client: Souder, M Project: Rattlesna	Miller & Associates ke 13 12									
Sample ID: mb-53051	SampType: MBL	к	Test	Code: EF	PA Method	8015D: Gaso	line Range	e		
Client ID: PBS	Batch ID: 5305	1	R	unNo: 69	9632					
Prep Date: 6/12/2020	Analysis Date: 6/13	/2020	S	SeqNo: 2416965			Units: mg/Kg			
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 840	1000		83.5	66.6	105				
Sample ID: Ics-53051	SampType: LCS		Test	Code: EF	PA Method	8015D: Gaso	line Range	e		
Client ID: LCSS	Batch ID: 5305	1	R	unNo: 69	9632					
Prep Date: 6/12/2020	Analysis Date: 6/13	/2020	S	eqNo: 24	16966	Units: mg/K	g			
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21 5.0	25.00	0	83.4	80	120				
Surr: BFB	930	1000		92.9	66.6	105				
Sample ID: mb-53054	SampType: MBL	К	Test	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 5305	4	R	RunNo: 69632						
Prep Date: 6/12/2020	Analysis Date: 6/14	nalysis Date: 6/14/2020			16989	Units: mg/K	g			
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 820	1000		81.5	66.6	105				
Sample ID: Ics-53054	SampType: LCS		Test	Code: EF	PA Method	8015D: Gaso	line Rang	9		
Client ID: LCSS	Batch ID: 5305	4		unNo: 69				-		
Prep Date: 6/12/2020	Analysis Date: 6/14	/2020	S	eqNo: 24	16990	Units: mg/K	a			
Analyte			SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21 5.0	25.00		83.7	80	120			Quui	
Surr: BFB	910	1000		91.1	66.6	105				
Sample ID: 2006676-007ams	SampType: MS		Test	Code: EF	PA Method	8015D: Gaso	line Rang	e		
Client ID: L2-4'	Batch ID: 5305	4	R	unNo: 69	9632		Ū			
Prep Date: 6/12/2020	Analysis Date: 6/14	/2020	S	eqNo: 24	17014	Units: mg/K	g			
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	20 4.9	24.63	0	81.6	80	120				
Surr: BFB	900	985.2		91.4	66.6	105				
Sample ID: 2006676-007amsd	SampType: MSD		Test	Code: EF	PA Method	8015D: Gaso	line Range	9		
Client ID: L2-4'	Batch ID: 5305		R	unNo: 69	9658		-			
Prep Date: 6/12/2020	Analysis Date: 6/15	/2020	S	eqNo: 24	17947	Units: mg/K	g			
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Analyte	Result PQL S	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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client: Project:	Souder, N Rattlesnal	filler & A ke 13 12	ssociate	es							
	2006676-007amsd	SampT	ype: M \$	SD	Tes	tCode: Ef	PA Method	8015D: Gaso	line Rang	e	
Client ID:	L2-4'	Batch ID: 53054 RunNo: 69658									
Prep Date:	6/12/2020	Analysis Date: 6/15/2020			S	SeqNo: 24	417947	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	20	4.9	24.63	0	82.1	80	120	0.586	20	
Surr: BFB		910		985.2		92.7	66.6	105	0	0	

Qualifiers:

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- J Analyte detected below quantitation limits
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	Miller & A nake 13 12	ssociate	S							
Sample ID: mb-53051	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 530	051	RunNo: 69632						
Prep Date: 6/12/2020	Analysis D	ate: 6/	13/2020	SeqNo: 2417131 Units: mg/Kg				g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID: LCS-53051	SampT	SampType: LCS			tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 53	051	F	9632					
Prep Date: 6/12/2020	Analysis D)ate: 6/	13/2020	SeqNo: 2417136			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			
Sample ID: mb-53054	SampT	ype: ME	BLK	Tes	tCode: El					
Client ID: PBS	Batch	n ID: 530	054	RunNo: 69632						
Prep Date: 6/12/2020	Analysis D	0ate: 6/	14/2020	5	SeqNo: 24	417174	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID: LCS-53054	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 530	054	F	RunNo: 6 9	9632				
Prep Date: 6/12/2020	Analysis D	Date: 6/	14/2020	5	SeqNo: 24	417175	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.1	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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18-Jun-20
QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, N Rattlesnal	/liller & A ke 13 12	ssociate	es							
Sample ID: 2	2006676-006ams	SampT	уре: МS	3	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	L2-3'	Batch	h ID: 53	054	R	unNo: 69	9632				
Prep Date:	6/12/2020	Analysis D	Date: 6/	14/2020	S	eqNo: 24	417178	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.90	0.025	0.9843	0	91.3	78.5	119			
Toluene		0.92	0.049	0.9843	0	93.4	75.7	123			
Ethylbenzene		0.91	0.049	0.9843	0	92.3	74.3	126			
Xylenes, Total		2.7	0.098	2.953	0	92.4	72.9	130			
Surr: 4-Bromo	ofluorobenzene	1.0		0.9843		103	80	120			
Sample ID: 2006676-006amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles											
Client ID:	L2-3'	Batch	n ID: 53	054	R	unNo: 69	9632				
Prep Date:	6/12/2020	Analysis D	0ate: 6/	14/2020	S	eqNo: 24	417180	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.024	0.9681	0	98.7	78.5	119	6.11	20	
Toluene		0.98	0.048	0.9681	0	101	75.7	123	6.47	20	
Ethylbenzene		0.99	0.048	0.9681	0	102	74.3	126	8.25	20	
Kylenes, Total		3.0	0.097	2.904	0	102	72.9	130	8.20	20	
Surr: 4-Bromo	ofluorobenzene	1.0		0.9681		104	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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WO#:

ANA	L TRONMENT LYSIS ORATORY	AL	TE	ll Environme L: 505-345-, Website: ww	490 Albuquero 3975 FAX:)1 Hawki jue, NM 505-345	ns NE 87109 -4107	Sar	nple Log-In Check List
Client Name	SMA-CARI	SBAD	Work	Order Num	nber: 200	6676			RcptNo: 1
Received By	: Michelle (Garcia	6/12/20	20 9:35:00	АМ		mi	nu (Jonue)
Completed B Reviewed By		ho Ino	6/12/20	20 10:01:1	8 AM		Guan	ay	
Chain of C	ustody								
1. Is Chain o	Custody comp	lete?			Yes		No		Not Present
2. How was t	he sample deliv	vered?			Cou	<u>rier</u>			
<u>Log In</u> 3. Was an att	empt made to c	cool the samp	les?		Yes		No		
4. Were all sa	mples received	at a tempera	ture of >0° C	to 6.0°C	Yes		No		
5. Sample(s)	in proper conta	iner(s)?			Yes		No		
Sufficient s	ample volume f	or indicated te	est(s)?		Yes	~	No		
7. Are sample	s (except VOA	and ONG) pro	operly preserve	ed?	Yes	~	No		
Was preser	vative added to	bottles?			Yes		No	V	NA 🗌
). Received a	t least 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No		
0. Were any s	ample containe	ers received b	roken?		Yes		No	~	# of preserved bottles checked
	work match bot epancies on cha)		Yes	~	No		for pH: (<2 or >12 unless noted)
2. Are matrice	s correctly iden	tified on Chai	n of Custody?		Yes	~	No		Adjusted?
3. Is it clear w	hat analyses we	ere requested	?		Yes	~	No		10.0-
	Iding times able customer for a				Yes	~	No		Checked by 5/A6.1212
pecial Han	dling (if app	licable)							
5. Was client	notified of all di	screpancies v	with this order?	x	Yes		No		NA 🗹
Pers	on Notified:			Date	-			-	
By W	/hom:			Via:	eM	ail 🔲	Phone	Fax	In Person
Rega	rding:					-			
Clien	t Instructions:								
6. Additional	remarks:								
7. <u>Cooler Int</u> Cooler I	the second se	Condition	Seal Intact	Seal No	Seal D	ate	Signed E	Rv	n -
1	2.0	Good			504.0		e.g.iou i	- 1	

Page 1 of 1

Image: Standard Image: Standard Image: Standard Image: Standard Project Name: Project Name: Amaly Standard Amaly Standard Project Name: Row Hallen Your Mathematican Standard Amaly Standard Amaly Standard Project Name: Project Name: Project Name: Amaly Standard Project Name: Project Name: Project Name: Amaly Standard Project Name: Project Name: Project Name: Project Name: Project Name: </th <th>U</th> <th>hain</th> <th>-of-CL</th> <th>Chain-of-Custodv Record</th> <th>D Turn-Around T</th> <th>d Time:</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	U	hain	-of-CL	Chain-of-Custodv Record	D Turn-Around T	d Time:									
Image:	Client:	SIV	14 - 0	Carlshad	Γ		5 day turn		Ţ		ALI			RON.	UMENTAL ORATORY
Indext: Ru HUSWU Random Ru HUSWU Random Index: Ref: Polect #:					Project Nan					{ >	h.ww	allenvi	Lonme	ental.con	
Ref Tel 605-3053 Fax 805-3053	Mailing	I Address			RaHL	Mall	21-21	7	H 1061	awkir	Is NE		nquer	que, NM	87109
eff. Analysis Analysis <t< th=""><th>2/1/2</th><th></th><th></th><th></th><th>Project #:</th><th></th><th></th><th></th><th>Tel. 50</th><th>5-34</th><th>5-397!</th><th>-</th><th>ax 5(</th><th>5-345-4</th><th>107</th></t<>	2/1/2				Project #:				Tel. 50	5-34	5-397!	-	ax 5(5-345-4	107
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Dill Dill <th< td=""><td>Accred</td><td>litation:</td><td>D Az Co</td><td>ompliance</td><td>Sampler:</td><td></td><td></td><td>_</td><td></td><td>(1.4</td><td>128</td><td>ZON</td><td></td><td></td><td></td></th<>	Accred	litation:	D Az Co	ompliance	Sampler:			_		(1.4	128	ZON			
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Time Matrix Sample Name Cooler Temposeses Freesenstive 28 41.0 2.3 2.4 2.6 1.7 1.6 1.7 28 41.0 2.7 2.6 1.7 1.6 1.7 1.6 1.7 29 41.3 $2.1 - 3^{1}$ 7.02 -0.01 X 1.6 1.7 1.6 46 $1.1 - 3^{1}$ 1.62 1.7 1.62 1.7 1.62 1.62 10.01 $2.3 - 3^{1}$ -0.02 1.7 1.62 1.62 1.7 1.62 10.02 $2.3 - 3^{1}$ -0.02 1.60 1.7 1.62 1.62 1.7 10.04 $2.3 - 3^{1}$ -0.02 1.60 1.7 1.60 1.7 10.03 $2.3 - 3^{1}$ -0.02 1.60 1.7 1.7 1.60 10.03 $2.7 - 3^{1}$ -0.02 1.60 1.7 1.60 1.7 10.03 $2.7 - 3^{1}$ -0.02 1.60 1.7 1.60 10.03 $2.7 - 3^{1}$ -0.02 1.60 1.7 1.7 10.03 $2.7 - 3^{1}$ -0.02		(Type)			# of Coolers	-		1.1	0.0	po	_		1.1.1		
Time Matrix Sample Name Container Preservative HEAL No. 20 410 5.1 $21-31$ 796 700 8260 31 10 5.1 $21-31$ 796 700 8260 361 $21-31$ 702 -001 X 8260 361 $21-31$ 700 -002 X 8260 361 $21-31$ -002 X 8260 362 $21-31$ -002 100 700 1000 2.32 -102 1000 1000 1004 2.32 -002 1000 1000 1036 2.47 -002 1000 1038 2.47 -002 1000 1038 2.47 -002 1000 1038 2.47 -002 1000 1038 2.47 -002 1000 1038 2.47 -002 1000 1038 2.47 -002 1000 1038 2.47 -002 1000 1038 2.47 -002 1000 10001 2.47 -0					Cooler Tem		+0,1(F=2.0	1	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	dîəN		-	-	100	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Date	Time	Matrix	Sample Name	Container Type and #		201	A	Contractor A	EDB (I			1.000		
q_{12} L_{1-3}^{\prime} -0.62° 1 <	4/1/20	· · · · · · · · ·	Soil	1-1-31	20%			X	<			X			
$4 \in I$ $LI - q^{1}$ -603 III $IIII$ $IIII$ $IIIII$ $IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$		913	1	11-3'			290-	1				-			
45.3 $L1-5^{-1}$ $-c0.4$ $ 1 $		961	-	1-1-4'			-003					_			
IOU L3-3! -005 L9 L9 -015 L3-3! 1004 L3-3' -004 L3-1 -004 L1 10 10 1004 L3-4' -004 L9 10 10 10 10 10 10 1004 L4-3' -004 L9 10	-	953	1	1-2-17			-004			1					
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2/1/2			Project #:				Tel. 505-345-3975	5-345	-3975	Fa	x 50!	Fax 505-345-4107		1/20
Phone #:										Analysis Request	is Re	quest		239
email or Fax#:			Project Manager:	iger:		1.00	(0			*O	-	(tu		:29:
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□ EDD (Type)			# of Coolers:	1		1.1.1		1.1.1			101. C			
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increased if	1 2	samples submitted to Hall Environmental may be subcontracted to other	uhontracted to other	accredited laboratories	This serves as no	e noecihilit	. Anvel	- contro	tob bot	o od libe			tions losit	79



September 18, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2009632

RE: Rattlesnake 13-12

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 36 sample(s) on 9/11/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	51	
Project: Rattlesnake 13-12		(Collection Dat	e:9/9	9/2020 10:00:00 AM	
Lab ID: 2009632-001	Matrix: SOIL		Received Dat	e:9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 3:46:00 PM	55172
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/14/2020 1:58:59 AM	55105
Surr: BFB	104	70-130	%Rec	1	9/14/2020 1:58:59 AM	55105
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/12/2020 10:36:34 AM	55109
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/12/2020 10:36:34 AM	55109
Surr: DNOP	106	30.4-154	%Rec	1	9/12/2020 10:36:34 AM	55109
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	9/12/2020 7:03:38 PM	55105
Toluene	ND	0.050	mg/Kg	1	9/12/2020 7:03:38 PM	55105
Ethylbenzene	ND	0.050	mg/Kg	1	9/12/2020 7:03:38 PM	55105
Xylenes, Total	ND	0.099	mg/Kg	1	9/12/2020 7:03:38 PM	55105
Surr: 1,2-Dichloroethane-d4	94.2	70-130	%Rec	1	9/12/2020 7:03:38 PM	55105
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/12/2020 7:03:38 PM	55105
Surr: Dibromofluoromethane	104	70-130	%Rec	1	9/12/2020 7:03:38 PM	55105
Surr: Toluene-d8	104	70-130	%Rec	1	9/12/2020 7:03:38 PM	55105

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

Qualifiers:

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

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

Page 1 of 43

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	52	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 10:05:00 AM	
Lab ID: 2009632-002	Matrix: SOIL		Received Dat	e:9 /1	11/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	9/15/2020 3:58:22 PM	55172
EPA METHOD 8015D MOD: GASOLINE I	RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 7:32:05 PM	55105
Surr: BFB	102	70-130	%Rec	1	9/12/2020 7:32:05 PM	55105
EPA METHOD 8015M/D: DIESEL RANGE					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/12/2020 10:46:08 AM	55109
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/12/2020 10:46:08 AM	55109
Surr: DNOP	103	30.4-154	%Rec	1	9/12/2020 10:46:08 AM	55109
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	9/12/2020 7:32:05 PM	55105
Toluene	ND	0.049	mg/Kg	1	9/12/2020 7:32:05 PM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 7:32:05 PM	55105
Xylenes, Total	ND	0.099	mg/Kg	1	9/12/2020 7:32:05 PM	55105
Surr: 1,2-Dichloroethane-d4	93.4	70-130	%Rec	1	9/12/2020 7:32:05 PM	55105
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	9/12/2020 7:32:05 PM	55105
Surr: Dibromofluoromethane	109	70-130	%Rec	1	9/12/2020 7:32:05 PM	55105
Surr: Toluene-d8	102	70-130	%Rec	1	9/12/2020 7:32:05 PM	55105

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

Qualifiers:

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

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

Page 2 of 43

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	33	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 10:10:00 AM	
Lab ID: 2009632-003	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	9/15/2020 4:10:42 PM	55172
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 8:00:30 PM	55105
Surr: BFB	101	70-130	%Rec	1	9/12/2020 8:00:30 PM	55105
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/12/2020 10:55:43 AM	55109
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/12/2020 10:55:43 AM	55109
Surr: DNOP	107	30.4-154	%Rec	1	9/12/2020 10:55:43 AM	55109
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/12/2020 8:00:30 PM	55105
Toluene	ND	0.049	mg/Kg	1	9/12/2020 8:00:30 PM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 8:00:30 PM	55105
Xylenes, Total	ND	0.098	mg/Kg	1	9/12/2020 8:00:30 PM	55105
Surr: 1,2-Dichloroethane-d4	89.5	70-130	%Rec	1	9/12/2020 8:00:30 PM	55105
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	9/12/2020 8:00:30 PM	55105
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/12/2020 8:00:30 PM	55105
Surr: Toluene-d8	97.8	70-130	%Rec	1	9/12/2020 8:00:30 PM	55105

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates			ient Sample II			
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 10:15:00 AM	
Lab ID: 2009632-004	Matrix: SOIL		Received Dat	e: 9/	11/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 4:23:03 PM	55172
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 8:28:55 PM	55105
Surr: BFB	104	70-130	%Rec	1	9/12/2020 8:28:55 PM	55105
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/12/2020 11:05:19 AN	l 55109
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/12/2020 11:05:19 AN	l 55109
Surr: DNOP	108	30.4-154	%Rec	1	9/12/2020 11:05:19 AN	l 55109
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	9/12/2020 8:28:55 PM	55105
Toluene	ND	0.049	mg/Kg	1	9/12/2020 8:28:55 PM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 8:28:55 PM	55105
Xylenes, Total	ND	0.098	mg/Kg	1	9/12/2020 8:28:55 PM	55105
Surr: 1,2-Dichloroethane-d4	94.0	70-130	%Rec	1	9/12/2020 8:28:55 PM	55105
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	9/12/2020 8:28:55 PM	55105
Surr: Dibromofluoromethane	108	70-130	%Rec	1	9/12/2020 8:28:55 PM	55105
Surr: Toluene-d8	99.8	70-130	%Rec	1	9/12/2020 8:28:55 PM	55105

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	5	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	0/2020 10:20:00 AM	
Lab ID: 2009632-005	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 4:35:24 PM	55172
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 8:57:24 PM	55105
Surr: BFB	102	70-130	%Rec	1	9/12/2020 8:57:24 PM	55105
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/12/2020 11:14:57 AM	55109
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/12/2020 11:14:57 AM	55109
Surr: DNOP	108	30.4-154	%Rec	1	9/12/2020 11:14:57 AM	55109
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	9/12/2020 8:57:24 PM	55105
Toluene	ND	0.049	mg/Kg	1	9/12/2020 8:57:24 PM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 8:57:24 PM	55105
Xylenes, Total	ND	0.099	mg/Kg	1	9/12/2020 8:57:24 PM	55105
Surr: 1,2-Dichloroethane-d4	97.3	70-130	%Rec	1	9/12/2020 8:57:24 PM	55105
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/12/2020 8:57:24 PM	55105
Surr: Dibromofluoromethane	109	70-130	%Rec	1	9/12/2020 8:57:24 PM	55105
Surr: Toluene-d8	102	70-130	%Rec	1	9/12/2020 8:57:24 PM	55105

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

Qualifiers:

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

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

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Surr: Toluene-d8

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2009632

Date Reported: 9/18/2020

9/12/2020 9:26:04 PM

55105

CLIENT: Project:	Souder, Miller & Associates Rattlesnake 13-12			ient Sample II Collection Dat		86 9/2020 10:25:00 AM	
Lab ID:	2009632-006	Matrix: SOIL		Received Dat	e:9 /1	1/2020 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride		ND	60	mg/Kg	20	9/15/2020 4:47:45 PM	55172
EPA ME	THOD 8015D MOD: GASOLIN	E RANGE				Analyst	DJF
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 9:26:04 PM	55105
Surr: I	BFB	101	70-130	%Rec	1	9/12/2020 9:26:04 PM	55105
EPA MET	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	CLP
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	9/12/2020 11:24:36 AM	55109
Motor Oi	il Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2020 11:24:36 AM	55109
Surr: I	DNOP	121	30.4-154	%Rec	1	9/12/2020 11:24:36 AM	55109
EPA MET	THOD 8260B: VOLATILES SH	IORT LIST				Analyst	DJF
Benzene		ND	0.025	mg/Kg	1	9/12/2020 9:26:04 PM	55105
Toluene		ND	0.049	mg/Kg	1	9/12/2020 9:26:04 PM	55105
Ethylben	izene	ND	0.049	mg/Kg	1	9/12/2020 9:26:04 PM	55105
Xylenes,	Total	ND	0.098	mg/Kg	1	9/12/2020 9:26:04 PM	55105
Surr:	1,2-Dichloroethane-d4	91.1	70-130	%Rec	1	9/12/2020 9:26:04 PM	55105
Surr: 4	4-Bromofluorobenzene	102	70-130	%Rec	1	9/12/2020 9:26:04 PM	55105
Surr: I	Dibromofluoromethane	107	70-130	%Rec	1	9/12/2020 9:26:04 PM	55105

104

70-130

%Rec

1

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

Qualifiers:

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

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

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Released to Imaging: 2/1/2023 11:54:11 AM

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Project: Rattlesna	Miller & Associates ake 13-12			ient Sample II		57 9/2020 10:30:00 AM	
Lab ID: 2009632		Matrix: SOIL	,			1/2020 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300	.0: ANIONS					Analyst	: JMT
Chloride		ND	59	mg/Kg	20	9/15/2020 5:00:05 PM	55172
EPA METHOD 801	5D MOD: GASOLINE R	ANGE				Analyst	DJF
Gasoline Range Or	ganics (GRO)	ND	5.0	mg/Kg	1	9/12/2020 9:54:35 PM	55105
Surr: BFB		101	70-130	%Rec	1	9/12/2020 9:54:35 PM	55105
EPA METHOD 801	5M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Orgar	nics (DRO)	ND	9.5	mg/Kg	1	9/12/2020 11:34:16 AM	55109
Motor Oil Range Or	ganics (MRO)	ND	47	mg/Kg	1	9/12/2020 11:34:16 AM	55109
Surr: DNOP		98.6	30.4-154	%Rec	1	9/12/2020 11:34:16 AM	55109
EPA METHOD 826	0B: VOLATILES SHOR	TLIST				Analyst	DJF
Benzene		ND	0.025	mg/Kg	1	9/12/2020 9:54:35 PM	55105
Toluene		ND	0.050	mg/Kg	1	9/12/2020 9:54:35 PM	55105
Ethylbenzene		ND	0.050	mg/Kg	1	9/12/2020 9:54:35 PM	55105
Xylenes, Total		ND	0.10	mg/Kg	1	9/12/2020 9:54:35 PM	55105
Surr: 1,2-Dichloro	bethane-d4	94.1	70-130	%Rec	1	9/12/2020 9:54:35 PM	55105
Surr: 4-Bromoflue	orobenzene	101	70-130	%Rec	1	9/12/2020 9:54:35 PM	55105
Surr: Dibromofluc	promethane	110	70-130	%Rec	1	9/12/2020 9:54:35 PM	55105
Surr: Toluene-d8		101	70-130	%Rec	1	9/12/2020 9:54:35 PM	55105

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

Qualifiers:

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

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

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Analytical Report
Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cli	ient Sample II	D:CS	58	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 10:35:00 AM	
Lab ID: 2009632-008	Matrix: SOIL		Received Dat	e:9 /1	11/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 5:37:07 PM	55172
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	t: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 10:22:59 PM	1 55105
Surr: BFB	99.9	70-130	%Rec	1	9/12/2020 10:22:59 PM	1 55105
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/12/2020 11:43:58 AM	1 55109
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/12/2020 11:43:58 AM	1 55109
Surr: DNOP	108	30.4-154	%Rec	1	9/12/2020 11:43:58 AM	1 55109
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analys	t: DJF
Benzene	ND	0.024	mg/Kg	1	9/12/2020 10:22:59 PM	1 55105
Toluene	ND	0.049	mg/Kg	1	9/12/2020 10:22:59 PM	1 55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 10:22:59 PM	1 55105
Xylenes, Total	ND	0.097	mg/Kg	1	9/12/2020 10:22:59 PM	1 55105
Surr: 1,2-Dichloroethane-d4	97.9	70-130	%Rec	1	9/12/2020 10:22:59 PM	1 55105
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	9/12/2020 10:22:59 PM	1 55105
Surr: Dibromofluoromethane	110	70-130	%Rec	1	9/12/2020 10:22:59 PM	1 55105
Surr: Toluene-d8	99.5	70-130	%Rec	1	9/12/2020 10:22:59 PM	1 55105

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates Project: Rattlesnake 13-12			ient Sample II Collection Dat		59 9/2020 10:40:00 AM	
Lab ID: 2009632-009	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 5:49:29 PM	55172
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/12/2020 10:51:30 PM	55105
Surr: BFB	103	70-130	%Rec	1	9/12/2020 10:51:30 PM	55105
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/12/2020 11:53:42 AM	55109
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/12/2020 11:53:42 AM	55109
Surr: DNOP	125	30.4-154	%Rec	1	9/12/2020 11:53:42 AM	55109
EPA METHOD 8260B: VOLATILES SHOP					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	9/12/2020 10:51:30 PM	55105
Toluene	ND	0.050	mg/Kg	1	9/12/2020 10:51:30 PM	55105
Ethylbenzene	ND	0.050	mg/Kg	1	9/12/2020 10:51:30 PM	55105
Xylenes, Total	ND	0.099	mg/Kg	1	9/12/2020 10:51:30 PM	55105
Surr: 1,2-Dichloroethane-d4	97.5	70-130	%Rec	1	9/12/2020 10:51:30 PM	55105
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	9/12/2020 10:51:30 PM	55105
Surr: Dibromofluoromethane	109	70-130	%Rec	1	9/12/2020 10:51:30 PM	55105
Surr: Toluene-d8	102	70-130	%Rec	1	9/12/2020 10:51:30 PM	55105

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

Qualifiers:

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

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

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Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	510	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	0/2020 10:45:00 AM	
Lab ID: 2009632-010	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 6:01:50 PM	55172
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 11:20:05 PM	55105
Surr: BFB	101	70-130	%Rec	1	9/12/2020 11:20:05 PM	55105
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/12/2020 12:03:28 PM	55109
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2020 12:03:28 PM	55109
Surr: DNOP	113	30.4-154	%Rec	1	9/12/2020 12:03:28 PM	55109
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/12/2020 11:20:05 PM	55105
Toluene	ND	0.049	mg/Kg	1	9/12/2020 11:20:05 PM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 11:20:05 PM	55105
Xylenes, Total	ND	0.097	mg/Kg	1	9/12/2020 11:20:05 PM	55105
Surr: 1,2-Dichloroethane-d4	93.1	70-130	%Rec	1	9/12/2020 11:20:05 PM	55105
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	9/12/2020 11:20:05 PM	55105
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/12/2020 11:20:05 PM	55105
Surr: Toluene-d8	99.2	70-130	%Rec	1	9/12/2020 11:20:05 PM	55105

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	511	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 10:50:00 AM	
Lab ID: 2009632-011	Matrix: SOIL		Received Dat	e:9 /1	11/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 6:14:10 PM	55172
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	t: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 2:27:31 AM	55105
Surr: BFB	106	70-130	%Rec	1	9/14/2020 2:27:31 AM	55105
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/12/2020 12:13:17 PM	1 55109
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/12/2020 12:13:17 PM	1 55109
Surr: DNOP	111	30.4-154	%Rec	1	9/12/2020 12:13:17 PM	1 55109
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analys	t: JMR
Benzene	ND	0.025	mg/Kg	1	9/14/2020 2:27:31 AM	55105
Toluene	ND	0.049	mg/Kg	1	9/14/2020 2:27:31 AM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 2:27:31 AM	55105
Xylenes, Total	ND	0.099	mg/Kg	1	9/14/2020 2:27:31 AM	55105
Surr: 1,2-Dichloroethane-d4	96.5	70-130	%Rec	1	9/14/2020 2:27:31 AM	55105
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	9/14/2020 2:27:31 AM	55105
Surr: Dibromofluoromethane	110	70-130	%Rec	1	9/14/2020 2:27:31 AM	55105
Surr: Toluene-d8	102	70-130	%Rec	1	9/14/2020 2:27:31 AM	55105

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

Qualifiers:

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

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

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Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	512	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	0/2020 10:55:00 AM	
Lab ID: 2009632-012	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	9/15/2020 6:26:36 PM	55172
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 2:56:03 AM	55105
Surr: BFB	102	70-130	%Rec	1	9/14/2020 2:56:03 AM	55105
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/12/2020 12:23:06 PM	55109
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/12/2020 12:23:06 PM	55109
Surr: DNOP	101	30.4-154	%Rec	1	9/12/2020 12:23:06 PM	55109
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	9/14/2020 2:56:03 AM	55105
Toluene	ND	0.049	mg/Kg	1	9/14/2020 2:56:03 AM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 2:56:03 AM	55105
Xylenes, Total	ND	0.099	mg/Kg	1	9/14/2020 2:56:03 AM	55105
Surr: 1,2-Dichloroethane-d4	96.8	70-130	%Rec	1	9/14/2020 2:56:03 AM	55105
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	9/14/2020 2:56:03 AM	55105
Surr: Dibromofluoromethane	107	70-130	%Rec	1	9/14/2020 2:56:03 AM	55105
Surr: Toluene-d8	101	70-130	%Rec	1	9/14/2020 2:56:03 AM	55105

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2009632

Date Reported: 9/18/2020

CLIENT:	Souder, Miller & Associates		Cl	ient Sample II	D:CS	513	
Project:	Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 11:00:00 AM	
Lab ID:	2009632-013	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	20	9/15/2020 6:38:57 PM	55172
EPA MET	HOD 8015D MOD: GASOLINE F	RANGE				Analyst	: JMR
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	9/14/2020 3:24:29 AM	55105
Surr: E	3FB	99.7	70-130	%Rec	1	9/14/2020 3:24:29 AM	55105
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: CLP
Diesel Ra	ange Organics (DRO)	ND	9.8	mg/Kg	1	9/12/2020 12:32:58 PN	I 55109
Motor Oil	I Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2020 12:32:58 PN	l 55109
Surr: E	DNOP	93.9	30.4-154	%Rec	1	9/12/2020 12:32:58 PM	l 55109
EPA MET	HOD 8260B: VOLATILES SHOP	RT LIST				Analyst	: JMR
Benzene		ND	0.025	mg/Kg	1	9/14/2020 3:24:29 AM	55105
Toluene		ND	0.050	mg/Kg	1	9/14/2020 3:24:29 AM	55105
Ethylben	zene	ND	0.050	mg/Kg	1	9/14/2020 3:24:29 AM	55105
Xylenes,	Total	ND	0.099	mg/Kg	1	9/14/2020 3:24:29 AM	55105
Surr: 1	1,2-Dichloroethane-d4	95.9	70-130	%Rec	1	9/14/2020 3:24:29 AM	55105
Surr: 4	1-Bromofluorobenzene	99.2	70-130	%Rec	1	9/14/2020 3:24:29 AM	55105
Surr: E	Dibromofluoromethane	106	70-130	%Rec	1	9/14/2020 3:24:29 AM	55105
Surr: T	Foluene-d8	100	70-130	%Rec	1	9/14/2020 3:24:29 AM	55105

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	514	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 11:05:00 AM	
Lab ID: 2009632-014	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	9/16/2020 10:45:47 AM	55197
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 3:52:48 AM	55105
Surr: BFB	102	70-130	%Rec	1	9/14/2020 3:52:48 AM	55105
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/12/2020 12:42:53 PM	55109
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/12/2020 12:42:53 PM	55109
Surr: DNOP	104	30.4-154	%Rec	1	9/12/2020 12:42:53 PM	55109
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	9/14/2020 3:52:48 AM	55105
Toluene	ND	0.049	mg/Kg	1	9/14/2020 3:52:48 AM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 3:52:48 AM	55105
Xylenes, Total	ND	0.099	mg/Kg	1	9/14/2020 3:52:48 AM	55105
Surr: 1,2-Dichloroethane-d4	92.5	70-130	%Rec	1	9/14/2020 3:52:48 AM	55105
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	9/14/2020 3:52:48 AM	55105
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/14/2020 3:52:48 AM	55105
Surr: Toluene-d8	100	70-130	%Rec	1	9/14/2020 3:52:48 AM	55105

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

Qualifiers:

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

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

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Analytical Report Lab Order 2009632

Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	515			
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 11:10:00 AM							
Lab ID: 2009632-015	Matrix: SOIL		Received Date: 9/11/2020 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	9/16/2020 10:58:08 AM	55197		
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 4:21:13 AM	55105		
Surr: BFB	100	70-130	%Rec	1	9/14/2020 4:21:13 AM	55105		
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	CLP		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/12/2020 12:52:50 PM	55109		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2020 12:52:50 PM	55109		
Surr: DNOP	96.8	30.4-154	%Rec	1	9/12/2020 12:52:50 PM	55109		
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	JMR		
Benzene	ND	0.025	mg/Kg	1	9/14/2020 4:21:13 AM	55105		
Toluene	ND	0.049	mg/Kg	1	9/14/2020 4:21:13 AM	55105		
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 4:21:13 AM	55105		
Xylenes, Total	ND	0.098	mg/Kg	1	9/14/2020 4:21:13 AM	55105		
Surr: 1,2-Dichloroethane-d4	96.4	70-130	%Rec	1	9/14/2020 4:21:13 AM	55105		
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	9/14/2020 4:21:13 AM	55105		
Surr: Dibromofluoromethane	107	70-130	%Rec	1	9/14/2020 4:21:13 AM	55105		
Surr: Toluene-d8	101	70-130	%Rec	1	9/14/2020 4:21:13 AM	55105		

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

Qualifiers:

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

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

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Released to Imaging: 2/1/2023 11:54:11 AM

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	516	
Project: Rattlesnake 13-12		(Collection Dat	e:9/9	9/2020 11:15:00 AM	
Lab ID: 2009632-016	Matrix: SOIL		Received Dat	e:9 /1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	9/16/2020 11:35:09 AM	55197
EPA METHOD 8015D MOD: GASOLINE I	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 4:49:41 AM	55105
Surr: BFB	103	70-130	%Rec	1	9/14/2020 4:49:41 AM	55105
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/12/2020 1:02:49 PM	55109
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2020 1:02:49 PM	55109
Surr: DNOP	93.8	30.4-154	%Rec	1	9/12/2020 1:02:49 PM	55109
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	9/14/2020 4:49:41 AM	55105
Toluene	ND	0.049	mg/Kg	1	9/14/2020 4:49:41 AM	55105
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 4:49:41 AM	55105
Xylenes, Total	ND	0.097	mg/Kg	1	9/14/2020 4:49:41 AM	55105
Surr: 1,2-Dichloroethane-d4	93.7	70-130	%Rec	1	9/14/2020 4:49:41 AM	55105
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	9/14/2020 4:49:41 AM	55105
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/14/2020 4:49:41 AM	55105
Surr: Toluene-d8	102	70-130	%Rec	1	9/14/2020 4:49:41 AM	55105

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	517			
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 11:20:00 AM							
Lab ID: 2009632-017	Matrix: SOIL		Received Date: 9/11/2020 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	9/16/2020 12:36:49 PM	55197		
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 5:18:12 AM	55105		
Surr: BFB	98.6	70-130	%Rec	1	9/14/2020 5:18:12 AM	55105		
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	: CLP		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/12/2020 1:12:58 PM	55109		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/12/2020 1:12:58 PM	55109		
Surr: DNOP	111	30.4-154	%Rec	1	9/12/2020 1:12:58 PM	55109		
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR		
Benzene	ND	0.025	mg/Kg	1	9/14/2020 5:18:12 AM	55105		
Toluene	ND	0.049	mg/Kg	1	9/14/2020 5:18:12 AM	55105		
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 5:18:12 AM	55105		
Xylenes, Total	ND	0.099	mg/Kg	1	9/14/2020 5:18:12 AM	55105		
Surr: 1,2-Dichloroethane-d4	93.9	70-130	%Rec	1	9/14/2020 5:18:12 AM	55105		
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	9/14/2020 5:18:12 AM	55105		
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/14/2020 5:18:12 AM	55105		
Surr: Toluene-d8	100	70-130	%Rec	1	9/14/2020 5:18:12 AM	55105		

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

Qualifiers:

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

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

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Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2009632

Date Reported: 9/18/2020

9/14/2020 5:46:48 AM

9/14/2020 5:46:48 AM

9/14/2020 5:46:48 AM

55105

55105

55105

CLIENT: Souder, Miller & Associates	Client Sample ID: CS18								
Project: Rattlesnake 13-12		Collection Date: 9/9/2020 11:25:00 AM							
Lab ID: 2009632-018	Matrix: SOIL	Matrix: SOIL Received Date: 9/11/2020 8:00							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	CAS			
Chloride	ND	60	mg/Kg	20	9/16/2020 12:49:09 PM	55197			
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	JMR			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 5:46:48 AM	55105			
Surr: BFB	100	70-130	%Rec	1	9/14/2020 5:46:48 AM	55105			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	CLP			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/12/2020 1:23:07 PM	55109			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/12/2020 1:23:07 PM	55109			
Surr: DNOP	93.2	30.4-154	%Rec	1	9/12/2020 1:23:07 PM	55109			
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analyst	JMR			
Benzene	ND	0.024	mg/Kg	1	9/14/2020 5:46:48 AM	55105			
Toluene	ND	0.049	mg/Kg	1	9/14/2020 5:46:48 AM	55105			
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 5:46:48 AM	55105			
Xylenes, Total	ND	0.097	mg/Kg	1	9/14/2020 5:46:48 AM	55105			
Surr: 1,2-Dichloroethane-d4	91.9	70-130	%Rec	1	9/14/2020 5:46:48 AM	55105			

96.6

109

103

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

1

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates	ttes Client Sample ID: CS19					
Project: Rattlesnake 13-12		(Collection Date	e:9/9	9/2020 11:30:00 AM	
Lab ID: 2009632-019	Matrix: SOIL		Received Date	e:9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	9/16/2020 1:01:30 PM	55197
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/14/2020 8:13:45 PM	55111
Surr: BFB	102	70-130	%Rec	1	9/14/2020 8:13:45 PM	55111
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/14/2020 11:24:26 AM	55115
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/14/2020 11:24:26 AM	55115
Surr: DNOP	91.8	30.4-154	%Rec	1	9/14/2020 11:24:26 AM	55115
EPA METHOD 8260B: VOLATILES SHOR	TLIST				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	9/14/2020 8:13:45 PM	55111
Toluene	ND	0.050	mg/Kg	1	9/14/2020 8:13:45 PM	55111
Ethylbenzene	ND	0.050	mg/Kg	1	9/14/2020 8:13:45 PM	55111
Xylenes, Total	ND	0.099	mg/Kg	1	9/14/2020 8:13:45 PM	55111
Surr: 1,2-Dichloroethane-d4	94.7	70-130	%Rec	1	9/14/2020 8:13:45 PM	55111
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	9/14/2020 8:13:45 PM	55111
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/14/2020 8:13:45 PM	55111
Surr: Toluene-d8	98.0	70-130	%Rec	1	9/14/2020 8:13:45 PM	55111

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

Qualifiers:

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

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

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Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	520	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 11:35:00 AM	
Lab ID: 2009632-020	Matrix: SOIL		Received Dat	e:9 /1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	9/16/2020 1:13:51 PM	55197
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/14/2020 9:38:55 PM	55111
Surr: BFB	100	70-130	%Rec	1	9/14/2020 9:38:55 PM	55111
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/14/2020 11:33:56 AM	55115
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/14/2020 11:33:56 AM	55115
Surr: DNOP	85.8	30.4-154	%Rec	1	9/14/2020 11:33:56 AM	55115
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	9/14/2020 9:38:55 PM	55111
Toluene	ND	0.050	mg/Kg	1	9/14/2020 9:38:55 PM	55111
Ethylbenzene	ND	0.050	mg/Kg	1	9/14/2020 9:38:55 PM	55111
Xylenes, Total	ND	0.099	mg/Kg	1	9/14/2020 9:38:55 PM	55111
Surr: 1,2-Dichloroethane-d4	88.2	70-130	%Rec	1	9/14/2020 9:38:55 PM	55111
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	9/14/2020 9:38:55 PM	55111
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/14/2020 9:38:55 PM	55111
Surr: Toluene-d8	96.9	70-130	%Rec	1	9/14/2020 9:38:55 PM	55111

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

Qualifiers:

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

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

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Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates	er, Miller & Associates Client Sample ID: CS21							
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 11:40:00 AM							
Lab ID: 2009632-021	Matrix: SOIL	Received Date: 9/11/2020 8:00:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	61	mg/Kg	20	9/16/2020 1:26:12 PM	55197		
EPA METHOD 8015D MOD: GASOLINE I	RANGE				Analyst	: JMR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/14/2020 11:04:17 PM	55111		
Surr: BFB	103	70-130	%Rec	1	9/14/2020 11:04:17 PM	55111		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/14/2020 11:43:30 AM	55115		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/14/2020 11:43:30 AM	55115		
Surr: DNOP	103	30.4-154	%Rec	1	9/14/2020 11:43:30 AM	55115		
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR		
Benzene	ND	0.025	mg/Kg	1	9/14/2020 11:04:17 PM	55111		
Toluene	ND	0.049	mg/Kg	1	9/14/2020 11:04:17 PM	55111		
Ethylbenzene	ND	0.049	mg/Kg	1	9/14/2020 11:04:17 PM	55111		
Xylenes, Total	ND	0.099	mg/Kg	1	9/14/2020 11:04:17 PM	55111		
Surr: 1,2-Dichloroethane-d4	91.3	70-130	%Rec	1	9/14/2020 11:04:17 PM	55111		
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/14/2020 11:04:17 PM	55111		
Surr: Dibromofluoromethane	104	70-130	%Rec	1	9/14/2020 11:04:17 PM	55111		
Surr: Toluene-d8	100	70-130	%Rec	1	9/14/2020 11:04:17 PM	55111		

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

Qualifiers:

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

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

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Hall Environmental	Analysis	Laboratory,	Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT:	Souder, Miller & Associates	ates Client Sample ID: CS22							
Project:	Rattlesnake 13-12	Collection Date: 9/9/2020 11:45:00 AM							
Lab ID:	2009632-022	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	THOD 300.0: ANIONS					Analyst	CAS		
Chloride		ND	61	mg/Kg	20	9/16/2020 1:38:32 PM	55197		
EPA MET	THOD 8015D MOD: GASOLINE	RANGE				Analyst	JMR		
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	9/15/2020 1:26:44 AM	55111		
Surr: I	BFB	102	70-130	%Rec	1	9/15/2020 1:26:44 AM	55111		
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM		
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	9/14/2020 11:53:03 AM	55115		
Motor Oi	l Range Organics (MRO)	ND	49	mg/Kg	1	9/14/2020 11:53:03 AM	55115		
Surr: I	DNOP	93.4	30.4-154	%Rec	1	9/14/2020 11:53:03 AM	55115		
EPA MET	HOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR		
Benzene)	ND	0.024	mg/Kg	1	9/15/2020 1:26:44 AM	55111		
Toluene		ND	0.048	mg/Kg	1	9/15/2020 1:26:44 AM	55111		
Ethylben	izene	ND	0.048	mg/Kg	1	9/15/2020 1:26:44 AM	55111		
Xylenes,	Total	ND	0.097	mg/Kg	1	9/15/2020 1:26:44 AM	55111		
Surr: 7	1,2-Dichloroethane-d4	91.8	70-130	%Rec	1	9/15/2020 1:26:44 AM	55111		
Surr: 4	4-Bromofluorobenzene	102	70-130	%Rec	1	9/15/2020 1:26:44 AM	55111		
Surr: I	Dibromofluoromethane	108	70-130	%Rec	1	9/15/2020 1:26:44 AM	55111		
Surr:	Toluene-d8	99.0	70-130	%Rec	1	9/15/2020 1:26:44 AM	55111		

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

Qualifiers:

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

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

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Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates	tes Client Sample ID: CS23					
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 11:50:00 AM	
Lab ID: 2009632-023	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	59	mg/Kg	20	9/16/2020 1:50:53 PM	55197
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2020 1:55:06 AM	55111
Surr: BFB	98.8	70-130	%Rec	1	9/15/2020 1:55:06 AM	55111
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	9/14/2020 12:02:35 PM	55115
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/14/2020 12:02:35 PM	55115
Surr: DNOP	104	30.4-154	%Rec	1	9/14/2020 12:02:35 PM	55115
EPA METHOD 8260B: VOLATILES SHOR	RT LIST				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	9/15/2020 1:55:06 AM	55111
Toluene	ND	0.049	mg/Kg	1	9/15/2020 1:55:06 AM	55111
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2020 1:55:06 AM	55111
Xylenes, Total	ND	0.099	mg/Kg	1	9/15/2020 1:55:06 AM	55111
Surr: 1,2-Dichloroethane-d4	90.9	70-130	%Rec	1	9/15/2020 1:55:06 AM	55111
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	9/15/2020 1:55:06 AM	55111
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/15/2020 1:55:06 AM	55111
Surr: Toluene-d8	100	70-130	%Rec	1	9/15/2020 1:55:06 AM	55111

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:CS	524	
Project: Rattlesnake 13-12		(Collection Dat	e: 9/9	9/2020 11:55:00 AM	
Lab ID: 2009632-024	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	59	mg/Kg	20	9/16/2020 2:03:14 PM	55197
EPA METHOD 8015D MOD: GASOLINE R	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2020 2:23:31 AM	55111
Surr: BFB	98.3	70-130	%Rec	1	9/15/2020 2:23:31 AM	55111
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/14/2020 12:12:11 PM	55115
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/14/2020 12:12:11 PM	55115
Surr: DNOP	111	30.4-154	%Rec	1	9/14/2020 12:12:11 PM	55115
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	9/15/2020 2:23:31 AM	55111
Toluene	ND	0.049	mg/Kg	1	9/15/2020 2:23:31 AM	55111
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2020 2:23:31 AM	55111
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2020 2:23:31 AM	55111
Surr: 1,2-Dichloroethane-d4	89.9	70-130	%Rec	1	9/15/2020 2:23:31 AM	55111
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	9/15/2020 2:23:31 AM	55111
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/15/2020 2:23:31 AM	55111
Surr: Toluene-d8	97.4	70-130	%Rec	1	9/15/2020 2:23:31 AM	55111

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

Qualifiers:

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

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

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Analytical Report
Lab Order 2009632

Date Reported: 9/18/2020

Hall Environmental	Analysis 1	Laboratory, Inc.
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CLIENT: Souder, Miller & Associates	es Client Sample ID: CS25								
Project: Rattlesnake 13-12		Collection Date: 9/9/2020 12:00:00 PM							
Lab ID: 2009632-025	Matrix: SOIL	Matrix: SOIL Received Date: 9/11/2020 8:00:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: CAS			
Chloride	ND	60	mg/Kg	20	9/16/2020 2:40:16 PM	55197			
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	t: JMR			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/15/2020 2:51:56 AM	55111			
Surr: BFB	102	70-130	%Rec	1	9/15/2020 2:51:56 AM	55111			
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS				Analys	t: BRM			
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	9/14/2020 12:21:46 PN	1 55115			
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	9/14/2020 12:21:46 PM	1 55115			
Surr: DNOP	131	30.4-154	%Rec	1	9/14/2020 12:21:46 PM	1 55115			
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analys	t: JMR			
Benzene	ND	0.025	mg/Kg	1	9/15/2020 2:51:56 AM	55111			
Toluene	ND	0.050	mg/Kg	1	9/15/2020 2:51:56 AM	55111			
Ethylbenzene	ND	0.050	mg/Kg	1	9/15/2020 2:51:56 AM	55111			
Xylenes, Total	ND	0.099	mg/Kg	1	9/15/2020 2:51:56 AM	55111			
Surr: 1,2-Dichloroethane-d4	91.8	70-130	%Rec	1	9/15/2020 2:51:56 AM	55111			
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	9/15/2020 2:51:56 AM	55111			
Surr: Dibromofluoromethane	103	70-130	%Rec	1	9/15/2020 2:51:56 AM	55111			
Surr: Toluene-d8	104	70-130	%Rec	1	9/15/2020 2:51:56 AM	55111			

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

Qualifiers:

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

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

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Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates Client Sample ID: CS26						\$26			
Project: Rattlesnake 12	3-12	Collection Date: 9/9/2020 12:05:00 PM							
Lab ID: 2009632-026	Matrix	SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM			
Analyses	ŀ	lesult	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: A	NIONS					Analyst:	CAS		
Chloride		ND	60	mg/Kg	20	9/16/2020 2:52:36 PM	55197		
EPA METHOD 8015D M	IOD: GASOLINE RANGE					Analyst:	JMR		
Gasoline Range Organics	s (GRO)	ND	4.9	mg/Kg	1	9/15/2020 3:20:23 AM	55111		
Surr: BFB		100	70-130	%Rec	1	9/15/2020 3:20:23 AM	55111		
EPA METHOD 8015M/D	: DIESEL RANGE ORGANIC	s				Analyst:	BRM		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/14/2020 12:31:22 PM	55115		
Motor Oil Range Organics	s (MRO)	ND	49	mg/Kg	1	9/14/2020 12:31:22 PM	55115		
Surr: DNOP		124	30.4-154	%Rec	1	9/14/2020 12:31:22 PM	55115		
EPA METHOD 8260B: \	OLATILES SHORT LIST					Analyst:	JMR		
Benzene		ND	0.025	mg/Kg	1	9/15/2020 3:20:23 AM	55111		
Toluene		ND	0.049	mg/Kg	1	9/15/2020 3:20:23 AM	55111		
Ethylbenzene		ND	0.049	mg/Kg	1	9/15/2020 3:20:23 AM	55111		
Xylenes, Total		ND	0.098	mg/Kg	1	9/15/2020 3:20:23 AM	55111		
Surr: 1,2-Dichloroethar	ne-d4	94.9	70-130	%Rec	1	9/15/2020 3:20:23 AM	55111		
Surr: 4-Bromofluorober	nzene	101	70-130	%Rec	1	9/15/2020 3:20:23 AM	55111		
Surr: Dibromofluorome	thane	106	70-130	%Rec	1	9/15/2020 3:20:23 AM	55111		
Surr: Toluene-d8		96.4	70-130	%Rec	1	9/15/2020 3:20:23 AM	55111		

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

Qualifiers:

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

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

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Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates	Client Sample ID: SW 1						
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 12:10:00 PM						
Lab ID: 2009632-027	Matrix: SOIL		Received Dat	e:9 /1	1/2020 8:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	ND	60	mg/Kg	20	9/16/2020 3:04:57 PM	55197	
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	JMR	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/15/2020 3:48:50 AM	55111	
Surr: BFB	102	70-130	%Rec	1	9/15/2020 3:48:50 AM	55111	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/14/2020 12:40:59 PM	55115	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/14/2020 12:40:59 PM	55115	
Surr: DNOP	108	30.4-154	%Rec	1	9/14/2020 12:40:59 PM	55115	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR	
Benzene	ND	0.025	mg/Kg	1	9/15/2020 3:48:50 AM	55111	
Toluene	ND	0.050	mg/Kg	1	9/15/2020 3:48:50 AM	55111	
Ethylbenzene	ND	0.050	mg/Kg	1	9/15/2020 3:48:50 AM	55111	
Xylenes, Total	ND	0.10	mg/Kg	1	9/15/2020 3:48:50 AM	55111	
Surr: 1,2-Dichloroethane-d4	93.1	70-130	%Rec	1	9/15/2020 3:48:50 AM	55111	
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/15/2020 3:48:50 AM	55111	
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/15/2020 3:48:50 AM	55111	
Surr: Toluene-d8	103	70-130	%Rec	1	9/15/2020 3:48:50 AM	55111	

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

Qualifiers:

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

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

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Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:SV	V 2		
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 12:15:00 PM						
Lab ID: 2009632-028	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	ND	61	mg/Kg	20	9/16/2020 3:17:16 PM	55197	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/15/2020 4:17:18 AM	55111	
Surr: BFB	103	70-130	%Rec	1	9/15/2020 4:17:18 AM	55111	
EPA METHOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/14/2020 12:50:35 PM	55115	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/14/2020 12:50:35 PM	55115	
Surr: DNOP	101	30.4-154	%Rec	1	9/14/2020 12:50:35 PM	55115	
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	JMR	
Benzene	ND	0.025	mg/Kg	1	9/15/2020 4:17:18 AM	55111	
Toluene	ND	0.050	mg/Kg	1	9/15/2020 4:17:18 AM	55111	
Ethylbenzene	ND	0.050	mg/Kg	1	9/15/2020 4:17:18 AM	55111	
Xylenes, Total	ND	0.10	mg/Kg	1	9/15/2020 4:17:18 AM	55111	
Surr: 1,2-Dichloroethane-d4	94.7	70-130	%Rec	1	9/15/2020 4:17:18 AM	55111	
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	9/15/2020 4:17:18 AM	55111	
Surr: Dibromofluoromethane	109	70-130	%Rec	1	9/15/2020 4:17:18 AM	55111	
Surr: Toluene-d8	101	70-130	%Rec	1	9/15/2020 4:17:18 AM	55111	

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

Qualifiers:

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

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

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Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates Client Sample ID: SW 3								
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 12:20:00 PM							
Lab ID: 2009632-029	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	61	mg/Kg	20	9/16/2020 3:29:37 PM	55197		
EPA METHOD 8015D MOD: GASOLINE I	RANGE				Analyst	: JMR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2020 4:45:48 AM	55111		
Surr: BFB	105	70-130	%Rec	1	9/15/2020 4:45:48 AM	55111		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/14/2020 1:00:11 PM	55115		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/14/2020 1:00:11 PM	55115		
Surr: DNOP	115	30.4-154	%Rec	1	9/14/2020 1:00:11 PM	55115		
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	: JMR		
Benzene	ND	0.025	mg/Kg	1	9/15/2020 4:45:48 AM	55111		
Toluene	ND	0.049	mg/Kg	1	9/15/2020 4:45:48 AM	55111		
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2020 4:45:48 AM	55111		
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2020 4:45:48 AM	55111		
Surr: 1,2-Dichloroethane-d4	91.7	70-130	%Rec	1	9/15/2020 4:45:48 AM	55111		
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	9/15/2020 4:45:48 AM	55111		
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/15/2020 4:45:48 AM	55111		
Surr: Toluene-d8	100	70-130	%Rec	1	9/15/2020 4:45:48 AM	55111		

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

Qualifiers:

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

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

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Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates	ttes Client Sample ID: SW 4							
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 12:25:00 PM							
Lab ID: 2009632-030	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	9/16/2020 3:41:57 PM	55197		
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	JMR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2020 5:14:18 AM	55111		
Surr: BFB	104	70-130	%Rec	1	9/15/2020 5:14:18 AM	55111		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	9/15/2020 12:18:25 PM	55115		
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/15/2020 12:18:25 PM	55115		
Surr: DNOP	118	30.4-154	%Rec	1	9/15/2020 12:18:25 PM	55115		
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR		
Benzene	ND	0.024	mg/Kg	1	9/15/2020 5:14:18 AM	55111		
Toluene	ND	0.049	mg/Kg	1	9/15/2020 5:14:18 AM	55111		
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2020 5:14:18 AM	55111		
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2020 5:14:18 AM	55111		
Surr: 1,2-Dichloroethane-d4	89.0	70-130	%Rec	1	9/15/2020 5:14:18 AM	55111		
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/15/2020 5:14:18 AM	55111		
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/15/2020 5:14:18 AM	55111		
Surr: Toluene-d8	103	70-130	%Rec	1	9/15/2020 5:14:18 AM	55111		

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

Qualifiers:

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

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

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Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:SV	V 5		
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 12:30:00 PM						
Lab ID: 2009632-031	Matrix: SOIL		Received Dat	e: 9/11/2020 8:00:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	ND	60	mg/Kg	20	9/16/2020 3:54:18 PM	55197	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2020 5:42:53 AM	55111	
Surr: BFB	107	70-130	%Rec	1	9/15/2020 5:42:53 AM	55111	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/14/2020 1:19:33 PM	55115	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/14/2020 1:19:33 PM	55115	
Surr: DNOP	118	30.4-154	%Rec	1	9/14/2020 1:19:33 PM	55115	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	JMR	
Benzene	ND	0.025	mg/Kg	1	9/15/2020 5:42:53 AM	55111	
Toluene	ND	0.049	mg/Kg	1	9/15/2020 5:42:53 AM	55111	
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2020 5:42:53 AM	55111	
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2020 5:42:53 AM	55111	
Surr: 1,2-Dichloroethane-d4	90.7	70-130	%Rec	1	9/15/2020 5:42:53 AM	55111	
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/15/2020 5:42:53 AM	55111	
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/15/2020 5:42:53 AM	55111	
Surr: Toluene-d8	104	70-130	%Rec	1	9/15/2020 5:42:53 AM	55111	

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

Qualifiers:

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

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

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Date Reported: 9/18/2020

CLIENT :	Souder, Miller & Associates		Cl	ient Sample II	D:SV	V 6						
Project:	Rattlesnake 13-12		Collection Date: 9/9/2020 12:35:00 PM									
Lab ID:	2009632-032	Matrix: SOIL	Matrix: SOIL Received Date: 9/11/2020 8:00:00									
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA ME	THOD 300.0: ANIONS					Analyst	: JMT					
Chloride	•	ND	60	mg/Kg	20	9/16/2020 4:01:26 PM	55214					
EPA ME	THOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR					
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	9/15/2020 6:11:26 AM	55111					
Surr:	BFB	101	70-130	%Rec	1	9/15/2020 6:11:26 AM	55111					
EPA ME	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM					
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	9/14/2020 1:29:11 PM	55115					
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	9/14/2020 1:29:11 PM	55115					
Surr:	DNOP	114	30.4-154	%Rec	1	9/14/2020 1:29:11 PM	55115					
EPA ME	THOD 8260B: VOLATILES SHO	ORT LIST				Analyst	JMR					
Benzene	e	ND	0.025	mg/Kg	1	9/15/2020 6:11:26 AM	55111					
Toluene		ND	0.050	mg/Kg	1	9/15/2020 6:11:26 AM	55111					
Ethylber	nzene	ND	0.050	mg/Kg	1	9/15/2020 6:11:26 AM	55111					
Xylenes	, Total	ND	0.10	mg/Kg	1	9/15/2020 6:11:26 AM	55111					
Surr:	1,2-Dichloroethane-d4	95.1	70-130	%Rec	1	9/15/2020 6:11:26 AM	55111					
Surr:	4-Bromofluorobenzene	101	70-130	%Rec	1	9/15/2020 6:11:26 AM	55111					
Surr:	Dibromofluoromethane	108	70-130	%Rec	1	9/15/2020 6:11:26 AM	55111					
Surr:	Toluene-d8	98.6	70-130	%Rec	1	9/15/2020 6:11:26 AM	55111					

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

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Date Reported: 9/18/2020

CLIENT: Souder, Miller & Associates		Client Sample ID: SW 7							
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 12:40:00 PM								
Lab ID: 2009632-033	Matrix: SOIL		Received Dat	e: 9/1	1/2020 8:00:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: JMT			
Chloride	ND	60	mg/Kg	20	9/16/2020 4:38:40 PM	55214			
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	: JMR			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/15/2020 6:39:55 AM	55111			
Surr: BFB	101	70-130	%Rec	1	9/15/2020 6:39:55 AM	55111			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/14/2020 1:38:50 PM	55115			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/14/2020 1:38:50 PM	55115			
Surr: DNOP	113	30.4-154	%Rec	1	9/14/2020 1:38:50 PM	55115			
EPA METHOD 8260B: VOLATILES SHOR	TLIST				Analyst	: JMR			
Benzene	ND	0.024	mg/Kg	1	9/15/2020 6:39:55 AM	55111			
Toluene	ND	0.048	mg/Kg	1	9/15/2020 6:39:55 AM	55111			
Ethylbenzene	ND	0.048	mg/Kg	1	9/15/2020 6:39:55 AM	55111			
Xylenes, Total	ND	0.097	mg/Kg	1	9/15/2020 6:39:55 AM	55111			
Surr: 1,2-Dichloroethane-d4	89.9	70-130	%Rec	1	9/15/2020 6:39:55 AM	55111			
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	9/15/2020 6:39:55 AM	55111			
Surr: Dibromofluoromethane	108	70-130	%Rec	1	9/15/2020 6:39:55 AM	55111			
Surr: Toluene-d8	99.4	70-130	%Rec	1	9/15/2020 6:39:55 AM	55111			

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

Qualifiers:

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

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

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Date Reported: 9/18/2020

CLIENT:	Souder, Miller & Associates		Client Sample ID: SW 8							
Project:	Rattlesnake 13-12	Collection Date: 9/9/2020 12:45:00 PM								
Lab ID:	2009632-034	Matrix: SOIL	Matrix: SOIL Received Date: 9/11/2020 8:00:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT			
Chloride		ND	60	mg/Kg	20	9/16/2020 4:51:04 PM	55214			
EPA MET	HOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR			
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2020 7:08:23 AM	55111			
Surr: E	3FB	105	70-130	%Rec	1	9/15/2020 7:08:23 AM	55111			
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM			
Diesel Ra	ange Organics (DRO)	ND	9.9	mg/Kg	1	9/14/2020 1:48:29 PM	55115			
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	9/14/2020 1:48:29 PM	55115			
Surr: D	DNOP	107	30.4-154	%Rec	1	9/14/2020 1:48:29 PM	55115			
EPA MET	HOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR			
Benzene		ND	0.025	mg/Kg	1	9/15/2020 7:08:23 AM	55111			
Toluene		ND	0.049	mg/Kg	1	9/15/2020 7:08:23 AM	55111			
Ethylben	zene	ND	0.049	mg/Kg	1	9/15/2020 7:08:23 AM	55111			
Xylenes,	Total	ND	0.099	mg/Kg	1	9/15/2020 7:08:23 AM	55111			
Surr: 1	,2-Dichloroethane-d4	93.0	70-130	%Rec	1	9/15/2020 7:08:23 AM	55111			
Surr: 4	I-Bromofluorobenzene	104	70-130	%Rec	1	9/15/2020 7:08:23 AM	55111			
Surr: Dibromofluoromethane		110	70-130	%Rec	1	9/15/2020 7:08:23 AM	55111			
Surr: T	Foluene-d8	103	70-130	%Rec	1	9/15/2020 7:08:23 AM	55111			

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

Qualifiers:

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

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2009632

Date Reported: 9/18/2020

CLIENT: So	uder, Miller & Associates		Client Sample ID: SW 9								
Project: Ra	ttlesnake 13-12	Collection Date: 9/9/2020 12:50:00 PM									
Lab ID: 20	09632-035	Matrix: SOIL		Received Dat	e:9 /1	1/2020 8:00:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHO	D 300.0: ANIONS					Analyst	: ЈМТ				
Chloride		ND	60	mg/Kg	20	9/16/2020 5:03:29 PM	55214				
EPA METHO	D 8015D MOD: GASOLINE	RANGE				Analyst	JMR				
Gasoline Rar	nge Organics (GRO)	ND	5.0	mg/Kg	1	9/15/2020 7:36:53 AM	55111				
Surr: BFB		103	70-130	%Rec	1	9/15/2020 7:36:53 AM	55111				
ЕРА МЕТНО	D 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM				
Diesel Range	e Organics (DRO)	ND	9.9	mg/Kg	1	9/14/2020 1:58:22 PM	55115				
Motor Oil Rai	nge Organics (MRO)	ND	50	mg/Kg	1	9/14/2020 1:58:22 PM	55115				
Surr: DNO	P	114	30.4-154	%Rec	1	9/14/2020 1:58:22 PM	55115				
ЕРА МЕТНО	D 8260B: VOLATILES SHO	RT LIST				Analyst	JMR				
Benzene		ND	0.025	mg/Kg	1	9/15/2020 7:36:53 AM	55111				
Toluene		ND	0.050	mg/Kg	1	9/15/2020 7:36:53 AM	55111				
Ethylbenzene	e	ND	0.050	mg/Kg	1	9/15/2020 7:36:53 AM	55111				
Xylenes, Tota	al	ND	0.099	mg/Kg	1	9/15/2020 7:36:53 AM	55111				
Surr: 1,2-D	Dichloroethane-d4	94.5	70-130	%Rec	1	9/15/2020 7:36:53 AM	55111				
Surr: 4-Bro	omofluorobenzene	101	70-130	%Rec	1	9/15/2020 7:36:53 AM	55111				
Surr: Dibro	omofluoromethane	108	70-130	%Rec	1	9/15/2020 7:36:53 AM	55111				
Surr: Tolue	ene-d8	100	70-130	%Rec	1	9/15/2020 7:36:53 AM	55111				

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

Qualifiers:

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

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

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Surr: Toluene-d8

Analytical Report

Hall Environmental Analysis Laboratory, Inc.	Hall	Environmental	Analys	sis Labo	oratory,	Inc.
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Lab Order 2009632

Date Reported: 9/18/2020

9/15/2020 8:05:31 AM 55111

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:SV	V 10					
Project: Rattlesnake 13-12	Collection Date: 9/9/2020 12:55:00 PM									
Lab ID: 2009632-036	Matrix: SOIL Received Date: 9/11/2020 8:00:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst:	ЈМТ				
Chloride	ND	60	mg/Kg	20	9/16/2020 5:15:53 PM	55214				
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	JMR				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/15/2020 8:05:31 AM	55111				
Surr: BFB	100	70-130	%Rec	1	9/15/2020 8:05:31 AM	55111				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/15/2020 10:34:32 AM	55142				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/15/2020 10:34:32 AM	55142				
Surr: DNOP	131	30.4-154	%Rec	1	9/15/2020 10:34:32 AM	55142				
EPA METHOD 8260B: VOLATILES SHOP	T LIST				Analyst	JMR				
Benzene	ND	0.025	mg/Kg	1	9/15/2020 8:05:31 AM	55111				
Toluene	ND	0.050	mg/Kg	1	9/15/2020 8:05:31 AM	55111				
Ethylbenzene	ND	0.050	mg/Kg	1	9/15/2020 8:05:31 AM	55111				
Xylenes, Total	ND	0.099	mg/Kg	1	9/15/2020 8:05:31 AM	55111				
Surr: 1,2-Dichloroethane-d4	96.9	70-130	%Rec	1	9/15/2020 8:05:31 AM	55111				
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	9/15/2020 8:05:31 AM	55111				
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/15/2020 8:05:31 AM	55111				

103

70-130

%Rec

1

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

Qualifiers:

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

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		er, Miller & Associates esnake 13-12							
Sample ID:	MB-55172	SampType: mblk	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 55172	RunNo: 71878						
Prep Date:	9/15/2020	Analysis Date: 9/15/2020	SeqNo: 2515816 Units: mg/Kg						
Analyte			e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride		ND 1.5							
Sample ID:	LCS-55172	SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID:	LCSS	Batch ID: 55172	RunNo: 71878						
Prep Date:	9/15/2020	Analysis Date: 9/15/2020	SeqNo: 2515817 Units: mg/Kg						
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride		14 1.5 15.00	0 92.4 90 110						
Sample ID:	MB-55214	SampType: mblk TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID: 55214	RunNo: 71908						
Prep Date:	9/16/2020	Analysis Date: 9/16/2020	SeqNo: 2517090 Units: mg/Kg						
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride		ND 1.5							
Sample ID:	LCS-55214	SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID:	LCSS	Batch ID: 55214	RunNo: 71908						
Prep Date:	9/16/2020	Analysis Date: 9/16/2020	SeqNo: 2517091 Units: mg/Kg						
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride		14 1.5 15.00	0 92.7 90 110						
Sample ID:	MB-55197	SampType: mblk	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 55197	RunNo: 71879						
Prep Date:	9/16/2020	Analysis Date: 9/16/2020	SeqNo: 2517377 Units: mg/Kg						
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride		ND 1.5							
Sample ID:	LCS-55197	SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID:	LCSS	Batch ID: 55197	RunNo: 71879						
Prep Date:	9/16/2020	Analysis Date: 9/16/2020	SeqNo: 2517378 Units: mg/Kg						
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride		14 1.5 15.00	0 93.9 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

RL Reporting Limit

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18-Sep-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Souder, M Project: Rattlesna	/iller & Assoc ke 13-12	ciates								
Sample ID: MB-55109	SampType	: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID:	55109	F	RunNo: 71792						
Prep Date: 9/11/2020	Analysis Date:	9/12/2020	S	eqNo: 2511889	Units: mg/Kg					
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50		100 00 1	454					
Surr: DNOP	10	10.00		103 30.4	154					
Sample ID: LCS-55109	SampType	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55109 RunNo: 71792									
Prep Date: 9/11/2020	Analysis Date:	9/12/2020	5	eqNo: 2511890	Units: mg/Kg					
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual			
Diesel Range Organics (DRO)	50	10 50.00	0	99.1 70	130					
Surr: DNOP	5.0	5.000		100 30.4	154					
Sample ID: MB-55115	SampType	MBLK	Tes	Code: EPA Method	8015M/D: Diesel R	ange Organics				
Client ID: PBS	Batch ID:	55115	F	unNo: 71810						
Prep Date: 9/12/2020	Analysis Date:	9/14/2020	S	eqNo: 2512645	Units: mg/Kg					
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10			-					
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5	10.00		95.4 30.4	154					
Sample ID: LCS-55115	SampType	LCS	Tes	tCode: EPA Method	8015M/D: Diesel R	ange Organics				
Client ID: LCSS	Batch ID:	55115	F	unNo: 71810						
Prep Date: 9/12/2020	Analysis Date:	9/14/2020	S	eqNo: 2512649	Units: mg/Kg					
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual			
Diesel Range Organics (DRO)	45	10 50.00	0	90.5 70	130					
Surr: DNOP	4.2	5.000		84.5 30.4	154					
Sample ID: 2009632-036AMS	SampType	MS	Tes	Code: EPA Method	8015M/D: Diesel R	ange Organics				
Client ID: SW 10	Batch ID:	55142	F	unNo: 71844						
Prep Date: 9/14/2020	Analysis Date:	9/15/2020	S	eqNo: 2514504	Units: mg/Kg					
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual			
Diesel Range Organics (DRO)	52	9.6 47.76	0	108 47.4	136					
Surr: DNOP	5.3	4.776		112 30.4	154					

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

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

RL Reporting Limit

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18-Sep-20

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, M Rattlesnak		sociate	2S							
Sample ID: 20	009632-036AMSD	SampTy	/pe: MS	D	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SV	W 10	Batch	ID: 551	142	R	RunNo: 71844					
Prep Date: 9	9/14/2020	Analysis Da	ate: 9/ '	15/2020	S	SeqNo: 25	514505	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	52	8.6	42.92	0	121	47.4	136	0.678	43.4	
Surr: DNOP		5.5		4.292		128	30.4	154	0	0	
Sample ID: LC	CS-55142	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LC	css	Batch ID: 55142			RunNo: 71844						
Prep Date: 9	9/14/2020	Analysis Da	ate: 9/ '	15/2020	S	eqNo: 25	514517	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	57	10	50.00	0	114	70	130			
Surr: DNOP		6.0		5.000		120	30.4	154			
Sample ID: MI	B-55142	SampTy	/pe: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PE	BS	Batch	ID: 551	142	R	lunNo: 7 1	844				
Prep Date: 9	9/14/2020	Analysis Da	ate: 9/ '	15/2020	S	SeqNo: 25	514518	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	ND	10								
Motor Oil Range O	Organics (MRO)	ND	50								
Surr: DNOP		12		10.00		122	30.4	154			

Qualifiers:

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

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

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18-Sep-20

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Miller & A nake 13-12	ssociate	S							
Sample ID: mb-55105	Samp	Гуре: МВ	LK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	Batch ID: 55105			RunNo: 71799					
Prep Date: 9/11/2020	Analysis [Date: 9/ *	12/2020	S	SeqNo: 2	512091	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.4	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.53		0.5000		105	70	130			
Sample ID: Ics-55105	Samp	Гуре: LC	S4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batch ID: 55105			RunNo: 71799						
Prep Date: 9/11/2020	Analysis [Date: 9/ *	12/2020	S	SeqNo: 2	512092	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.1	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.3	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			
Sample ID: Ics-55111	Samp	Гуре: LC	S4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 55 1	111	F	RunNo: 7 '	1834				
Prep Date: 9/11/2020	Analysis [Date: 9/ *	14/2020	S	SeqNo: 2	513969	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.3	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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WO#:	2009632

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Miller & A ake 13-12	ssociate	es								
Sample ID: mb-55111	Samp	Гуре: МЕ	BLK	Tes	tCode: El	A Method	8260B: Volat	tiles Short	List		
Client ID: PBS	Batc	h ID: 55 ′	111	F	RunNo: 7 1	1834					
Prep Date: 9/11/2020	Analysis [Date: 9/	14/2020	S	SeqNo: 2	513970	Units: mg/k	٢g			
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	0.48		0.5000		95.2	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.5	70	130				
Surr: Dibromofluoromethane	0.55		0.5000		111	70	130				
Surr: Toluene-d8	0.51		0.5000		102	70	130				
Sample ID: 2009632-019ams	s Samp	Гуре: МS	54	Tes	tCode: EF	A Method	8260B: Volat	tiles Short	List		
Client ID: CS19	Batc	h ID: 55 ′	111	F	RunNo: 7 1	1834					
Prep Date: 9/11/2020	Analysis [Date: 9/	14/2020	S	SeqNo: 2	513972	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.87	0.025	0.9891	0	87.8	71.1	115				
Toluene	0.95	0.049	0.9891	0	96.1	79.6	132				
Ethylbenzene	0.97	0.049	0.9891	0	97.7	83.8	134				
Xylenes, Total	3.0	0.099	2.967	0	101	82.4	132				
Surr: 1,2-Dichloroethane-d4	0.47		0.4946		94.3	70	130				
Surr: 4-Bromofluorobenzene	0.51		0.4946		103	70	130				
Surr: Dibromofluoromethane	0.51		0.4946		104	70	130				
Surr: Toluene-d8	0.48		0.4946		97.2	70	130				
Sample ID: 2009632-019ams	sd Samp	Гуре: МS	SD4	TestCode: EPA Method			d 8260B: Volatiles Short List				
Client ID: CS19	Batc	h ID: 55	111	F	RunNo: 7 1	1834					
Prep Date: 9/11/2020	Analysis [Date: 9/	14/2020	5	SeqNo: 25	513973	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.85	0.025	0.9940	0	85.2	71.1	115	2.54	20		
Toluene	0.97	0.050	0.9940	0	97.2	79.6	132	1.61	20		
Ethylbenzene	0.99	0.050	0.9940	0	100	83.8	134	2.79	20		
Xylenes, Total	3.1	0.099	2.982	0	103	82.4	132	2.13	20		
Surr: 1,2-Dichloroethane-d4	0.47		0.4970		94.7	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.51		0.4970		103	70	130	0	0		
Surr: Dibromofluoromethane	0.53		0.4970		107	70	130	0	0		
Surr: Toluene-d8	0.50		0.4970		101	70	130	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

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

RL Reporting Limit

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18-Sep-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Souder, M Project: Rattlesnal	Ailler & Associate ke 13-12	28							
Sample ID: mb-55105	SampType: M	BLK	Tes	tCode: EP	A Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch ID: 55	105	R	RunNo: 71	799				
Prep Date: 9/11/2020	Analysis Date: 9/	12/2020	S	SeqNo: 25	12109	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 510	500.0		101	70	130			
Sample ID: Ics-55105	SampType: LC	s	Tes	tCode: EP	A Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch ID: 55	105	R	RunNo: 71	799				
Prep Date: 9/11/2020	Analysis Date: 9/	12/2020	S	SeqNo: 25	12110	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	25.00	0	90.8	70	130			
Surr: BFB	490	500.0		97.5	70	130			
Sample ID: Ics-55111	SampType: LC	s	Tes	tCode: EF	A Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch ID: 55	111	R	RunNo: 71	834				
Prep Date: 9/11/2020	Analysis Date: 9/	14/2020	S	SeqNo: 25	13997	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0	25.00	0	88.4	70	130			
Surr: BFB	510	500.0		103	70	130			
Sample ID: mb-55111	SampType: M	BLK	Tes	tCode: EF	A Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch ID: 55	111	R	RunNo: 71	834				
Prep Date: 9/11/2020	Analysis Date: 9/	14/2020	S	SeqNo: 25	13998	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	500	500.0		99.8	70	130			
Sample ID: 2009632-020ams	SampType: MS	5	Tes	tCode: EP	A Method	8015D Mod:	Gasoline I	Range	
Client ID: CS20	Batch ID: 55	111	RunNo: 71834			-			
Prep Date: 9/11/2020	Analysis Date: 9/	14/2020	S	SeqNo: 25	14001	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	24.88	0	91.3	49.2	122			
Surr: BFB	510	497.5		103	70	130			
Sample ID: 2009632-020amsd	SampType: MS	SD	Tes	tCode: EP	A Method	8015D Mod:	Gasoline I	Range	
Client ID: CS20	Batch ID: 55	111	R	RunNo: 71	834				
Prep Date: 9/11/2020	Analysia Datas	4 4 100 00	· · · · ·		4 4000	Units: mg/K	a		
	Analysis Date: 9/	14/2020	c	SeqNo: 25	14002	onits. mg/n	y		

Qualifiers:

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

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

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2009632

18-Sep-20

	er, Miller & A esnake 13-12	ssociate	es							
Sample ID: 2009632-020a	msd Samp1	Гуре: М	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: CS20	Batc	h ID: 55	111	F	RunNo: 7	1834				
Prep Date: 9/11/2020	Analysis E	Date: 9/	14/2020	S	eqNo: 2	514002	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.11	0	88.7	49.2	122	5.98	20	
Surr: BFB	500		482.2		103	70	130	0	0	

Qualifiers:

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

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

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2009632

18-Sep-20

Received by	OCD:	1/11/2023	9:29:34 AM
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ANAL	RONMENTAL YSIS Ratory	Hall Environmental Albi TEL: 505-345-3975 Website: clients.ha	490 iquerg FAX:)1 Hawkins NE 1ue, NM 87109 505-345-4107		Sar	nple Log-In Check List
Client Name:	Souder, Miller & Associates	Work Order Number:	200	9632			RcptNo: 1
Received By:	Cheyenne Cason	9/11/2020 8:00:00 AM					
Completed By:	Emily Mocho	9/11/2020 8:53:17 AM					
Reviewed By:	Con	9/11/20					
Chain of Cus	stody						
1. Is Chain of C	sustody complete?		Yes	~	No		Not Present
2. How was the	sample delivered?		Cou	rier			
Log In 3 Was an attem	npt made to cool the samp	loc?	Yes		No		
o. was an allen	npt made to cool the samp		165		140	-	
4. Were all sam	ples received at a tempera	ture of >0° C to 6.0°C	Yes	~	No		
5. Sample(s) in	proper container(s)?		Yes	~	No		
6. Sufficient san	nple volume for indicated te	est(s)?	Yes	~	No		
7. Are samples	(except VOA and ONG) pro	operly preserved?	Yes	~	No		
8. Was preserva	ative added to bottles?		Yes		No	~	NA 🗌
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes		No		NA 🗹
10, Were any sar	mple containers received b	roken?	Yes		No	~	# of preserved bottles checked
	ork match bottle labels? ancies on chain of custody)	Yes		No		for pH: (<2 or >12 unless noted)
2 Are matrices	correctly identified on Chai	n of Custody?	Yes		No		Adjusted?
3. Is it clear what	at analyses were requested	?	Yes	~	No		
	ing times able to be met? sustomer for authorization.)		Yes		No		Checked by: 5/24 2.1(, 20
Special Hand	ling (if applicable)						
15. Was client no	otified of all discrepancies	with this order?	Yes		No		NA 🗹
Person	Notified:	Date:	_			-	
By Whe	om:	Via:	eM	ail 🗌 Phor	ne 🗌	Fax	In Person
Regard	ling:		-			-	
Client I	nstructions:						
16. Additional re	emarks:						
17. <u>Cooler Info</u> Cooler No 1		Seal Intact Seal No S Not Present	ieal D	ate Sig	gned	Ву	

Page 1 of 1

Client.		5	Cildill-OI-CUSIOUS RECOID	`		5 Davy			I	ALL	N	VIF	HALL ENVIRONMENTAL	TAI
CIICIII	SMIA	t		Z Standard			Π			NAL	ANALYSTS		ABORATOR	>ao
				Project Name:	e:					ed www	lanviro	nemu	www.hallanvironmantal.com	
Mailing	Mailing Address:	::		Ruttlesmak	ako 13-17	12		4901 Hawkins NE	awkin	s NE -	- Albuo	Ineron	Albuquerque NM 87109	
				Project #:				Tel. 5(5-345	10		502-	505-345-4107	
Phone #:	#:			into #	20856800	800				A	Analysis		Request	
email or Fax#:	r Fax#:			Project Manager:	ager:		-	10			[†] 0	_	()tr	
QA/QC	QA/QC Package:		Level 4 (Full Validation)	A shlow	Manual	110				SIMIS	05 ^Ԡ Oc		192dA\	
Accreditation:	itation:	D Az Co	□ Az Compliance	Sampler: Ch		TT-	1.0			0/7	1 ' ^z C		tnəs	
D NELAC	AC	□ Other			国 Yes	D No					N	(A	Pre	
	□ EDD (Type)			# of Coolers:	1		1. N.					-) w.	
				Cooler Temp(including CF): 5	(including CF): 5	2+0.15 53(°C)			_			_	notilo	
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX)	08:H9T 99 1808	EDB (W	d ahaa 8 аяря	8560 (√ C≯E' E	S) 0728	Total Co	
9/9/20 10:00	10:00	Soil	cs1	1- 402	(oo)	100	1		1000 100					
	20:01	-	cS2	_	_	002				-	_	_		
	10:10		CS3	_		003								
	51:01		csy			400								
	10:20		cs 5			500					_			
	10:25		csb			000								
	10:30		cs7			Loo					_			
	10:35		C58			800					-			
-	04:01		659			600								
	SHIDI		C \$10			010					_			
	10:50	-	CSII			110								
1	10:55	+	6.512	-	4	210	-1				\rightarrow			
Date: 9/10/20	Time:	Relinquished by:	shed by:	Received by:	Via: A / M M M	Allo A IIIG	Remarks:	ks:	7					
Date:	Time:	Relinquished by:	ed by:	Received by:										e 158
0 10/20	D DA DO	N MI	C 10 1 00 W	(WM		01/11/20 20m								

R

Client:		12-10-	Chain-of-Custody Record		IIIIE. 5 Day	Ly Ly	1				CININ D	T D L	HALL ENVIRONMENTAL	
	SNA	Z		D Standard	Rush			1	AN	AL	ANALYSIS	5 _	ABORATOR	. >
				Project Name:						w.halle	nviron	ant	mod	
	Mailing Address:			Pattlesnake		13-12	4	4901 Hawkins NE	wkins		Albuqu	erque,	Albuquerque, NM 87109	
2/1/2				Project #:				Tel. 505-345-3975	-345-3		Fax	505-345-4107	5-4107	
Phone #:	t.			10 m	W0 # 20856900	00				An	Analysis	Request	st	
email or Fax#:	Fax#:			Project Manager:	ager:			_			[†] ∩9	(tu	1	
QA/QC Packa	QA/QC Package:		Level 4 (Full Validation)	Ashley	1 Noxwell	1 SI	S08) 2'8 AM \ O9	PCB's	SMISO		PO4, S	əsdAytn		34 AM
Accreditation:	ation:	D Az Co	Az Compliance	Sampler: S	So						⁷ 0N	1.123		
D NELAC	AC	□ Other		On Ice:	AD Yes	D No	10.1		_	S	3° L			
□ EDD (Type)	(Type)			# of Coolers: (1			12	100	etə	_	100		
				Cooler Temp(including CF):5	(including CF): 5, 2	+ 6.125 3 (°C)		10.000	-	9 W 8		122.00		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2009632			PAHs (I	АЯЭЯ	8560 () 0728 (1012)		
919/20	(D:00)	Sell	CS13	1-402	Ceul	013	XX			<u>)</u>	X			
	11:05	1	csit	1	ļ	014					_			
	11:10		cs15			015								
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	11=20	-	CSIT	-	-	110	_		_		_			
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)	11:55	-1	cszit,	-)	T	120	ナー	<u> </u>			-1			
1	Time:	Relinquished by:	led by:	Received by:	Via:	-	Remarks:	KS:						
So	112	Ne	le cistering C).	WAMMAN										age
Date:	Time:	Relinquished by:	ned by:	Received by:	Via: 1	Date Time								
al 01/10	1900	UNAM.	MUMINAN ON	M	Count	9/11/20 0800								

Released to Imaging: 2/1/20

Mailing Address: Address: Phone #: email or Fax#: email or Fax#: AdvCc Package: QA/QC Package: Date InvELAC Date Inversion Accreditation: Accreditation: Accreditation: Accreditation: Date Inversion Accreditation: Date Inversion CSOL Accreditation: Date Inversion CSOL Accreditation: Date Inversion CSOL Accreditation: Date Inversion CSOL Inversion Inversion	Z Standard R Project Name: RotHLesnate Project Manager: AShLey M Sampler: S0 On Ice: A Yes # of Coolers: (Cooler Temp(including cr): Cooler Temp(including cr):	Lush I3-12 L6 & 0 0 L6 & 0 0 L0 XUUE I INO INO INO INO INO INO INO IN	1 → ↓ </th <th>B081 Pesticides/8082 PCB's Provision Provision</th> <th>Andress Andress Andress Andress Andress Andress Andress Andress Andress Andress<th>ALYSIS ALYSIS ALYSIS Albuqu Analysis Analysis Analysis</th><th>SIS Violation Violation 8260 (VOA) Visis Red 8270 (Semi-VOA)</th><th>ANALYSIS Alactic control www.hallenvironmental.com www.hallenvironmental.com www.hallenvironmental.com RCRA 8 Metals Advance Control Strans Strans Strans Strans</th><th>HALL ENVIRONMENTAL ANALYSIS Laboration ANALYSIS Laboration ANALYSIS Laboration Analysis NE - Albuquerque, NM 87109 Stress (VOA) Retails Analysis Request Analysis Request <!--</th--></th></th>	B081 Pesticides/8082 PCB's Provision Provision	Andress Andress Andress Andress Andress Andress Andress Andress Andress Andress <th>ALYSIS ALYSIS ALYSIS Albuqu Analysis Analysis Analysis</th> <th>SIS Violation Violation 8260 (VOA) Visis Red 8270 (Semi-VOA)</th> <th>ANALYSIS Alactic control www.hallenvironmental.com www.hallenvironmental.com www.hallenvironmental.com RCRA 8 Metals Advance Control Strans Strans Strans Strans</th> <th>HALL ENVIRONMENTAL ANALYSIS Laboration ANALYSIS Laboration ANALYSIS Laboration Analysis NE - Albuquerque, NM 87109 Stress (VOA) Retails Analysis Request Analysis Request <!--</th--></th>	ALYSIS ALYSIS ALYSIS Albuqu Analysis Analysis Analysis	SIS Violation Violation 8260 (VOA) Visis Red 8270 (Semi-VOA)	ANALYSIS Alactic control www.hallenvironmental.com www.hallenvironmental.com www.hallenvironmental.com RCRA 8 Metals Advance Control Strans Strans Strans Strans	HALL ENVIRONMENTAL ANALYSIS Laboration ANALYSIS Laboration ANALYSIS Laboration Analysis NE - Albuquerque, NM 87109 Stress (VOA) Retails Analysis Request Analysis Request </th
Date: Time: Relinquished by: Allola IIIS Defections	Received by: Via:	9/10/20 1/15	Remarks:			-		-	-

APPENDIX E PHOTO LOG























② 140°SE (T) ③ 32°2'13"N, 103°24'57"W ±13ft ▲ 3236ft





E Alto











② 267°W (T) ③ 32°2'12"N, 103°24'56"W ±19ft ▲ 3234ft









③ 300°NW (T) ④ 32°2'12"N, 103°24'55"W ±13ft ▲ 3235ft



28 Jul 2020, 10:02:48

State AL PL





















28 Jul 2020, 10:02:05





28 Jul 2020; 10:02:01



③ 10°N (T) ④ 32°2'12"N, 103°24'56"W ±13ft ▲ 3236ft





28 Jul 2020, 10:01:54











28 Jul 2020, 10:04:39











② 127°SE (T) ③ 32°2'12"N, 103°24'57"W ±13ft ▲ 3237ft









② 268°W (T) ③ 32°2'13"N, 103°24'55"W ±13ft ▲ 3235ft



















28 Jul 2020, 10:03:23





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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	175004
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	2/1/2023