



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

December 22, 2020

#5E29133-BG43

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

SUBJECT: Remediation Closure Report for the Falcon 32 State 1 release (NPAC0717753390), Lea County, New Mexico

To Whom it May Concern:

On behalf of Devon Energy Production Company, 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 Falcon 32 State 1 site. The site is in Unit F, Section 32, Township 23S, Range 32E, Lea County, New Mexico, on State land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Falcon 32 State 1	Company	Devon Energy Production Company
API Number	30-025-33001	Location	32.2625084, -103.6998367
Tracking Number	NPAC0717753390		
Estimated Date of Release	2/27/2007	Date Reported to NMOCD	2/28/2007
Land Owner	State	Reported To	NMOCD
Source of Release	TBG line to Murphy Switch ruptured		
Released Volume	4 BBLS 1 BBLS	Released Material	Crude Oil & Produced Water
Recovered Volume	0 BBLS	Net Release	5 BBLS
NMOCD Closure Criteria	<50 feet to groundwater		
SMA Response Dates	9/2/2020, 9/15/2020, 11/30/2020, 12/1/2020		

Falcon 32 State 1 Remediation Closure Report
December 22, 2020

NPAC0717753390

1.0 Background

On February 27, 2007, a release was discovered at the Falcon 32 State 1 site due to a rupture between the TBG line to Murphy Switch. Initial response activities were conducted by Devon personnel, which included source elimination and site stabilization activities. 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 Falcon 32 State 1 is a plugged and abandoned production facility located approximately 33 miles southeast of Carlsbad, New Mexico on State land at an elevation of approximately 3,661 feet above mean sea level (amsl).

Depth to Groundwater

Based upon Office of the State Engineer (NMOSE) well data (Appendix B), depth to groundwater in the area is estimated to be 546 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 playa, located approximately 4,967 feet to the south of the Falcon 32 State 1 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.

Based on the lack of supportable groundwater data, 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 September 2 and 15, 2020, SMA personnel performed site delineation activities at the Falcon 32 State 1 site. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of 7 sample locations (S1 – S7) were investigated using a hand-auger, to depths up to 7 feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the methods above. A total of 29 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. Figure 3 shows the location of the samples.

From November 30 to December 1, 2020, SMA returned to the site to guide the excavation of contaminated soil. Samples were field-screened using the methods above. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on November 24, 2020 that closure samples were expected to be collected in two (2) business days.

Falcon 32 State 1 Remediation Closure Report
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NPAC0717753390

On December 1, 2020, SMA collected confirmation samples from the walls and base of the excavation, which measured approximately 52 by 36 feet. The area around sample locations S1, S5, S6, and S7 was excavated to a depth of 1.5 feet bgs, the area around sample locations S2, S3, and S4 was excavated to a depth of 5.5 feet bgs. Confirmation samples were comprised of five-point composites of the base (CS1 – CS9) and walls (SW1 – SW4).

A total of 13 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 3A shows the extent of the final excavation and closure sample locations. All laboratory results are summarized in Tables 3A and 3B. Laboratory reports are included in Appendix D.

4.0 Site Recommendations

As demonstrated in Table 3B, 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 R360 Environmental Solutions Landfill near Hobbs, NM, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number NPAC0717753390.

Falcon 32 State 1 Remediation Closure Report
December 22, 2020

NPAC0717753390

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.

If there are any questions regarding this report, please contact either Ashley Maxwell at 505-325-7535 or Shawna Chubbuck at 970-565-4465, extension 1604.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Ashley Maxwell
Project Scientist



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 12/10/2020

New Mexico Oil Conservation District (NMOCD) online incident files database
<http://www.emnrd.state.nm.us/OCD/ocdgis.html/>; accessed 12/14/2020

Falcon 32 State 1 Remediation Closure Report
December 22, 2020

NPAC0717753390

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Surface Water Radius Map
Figure 3: Site and Initial Sample Location Map
Figure 3A: Site and Confirmation Sample Location Map

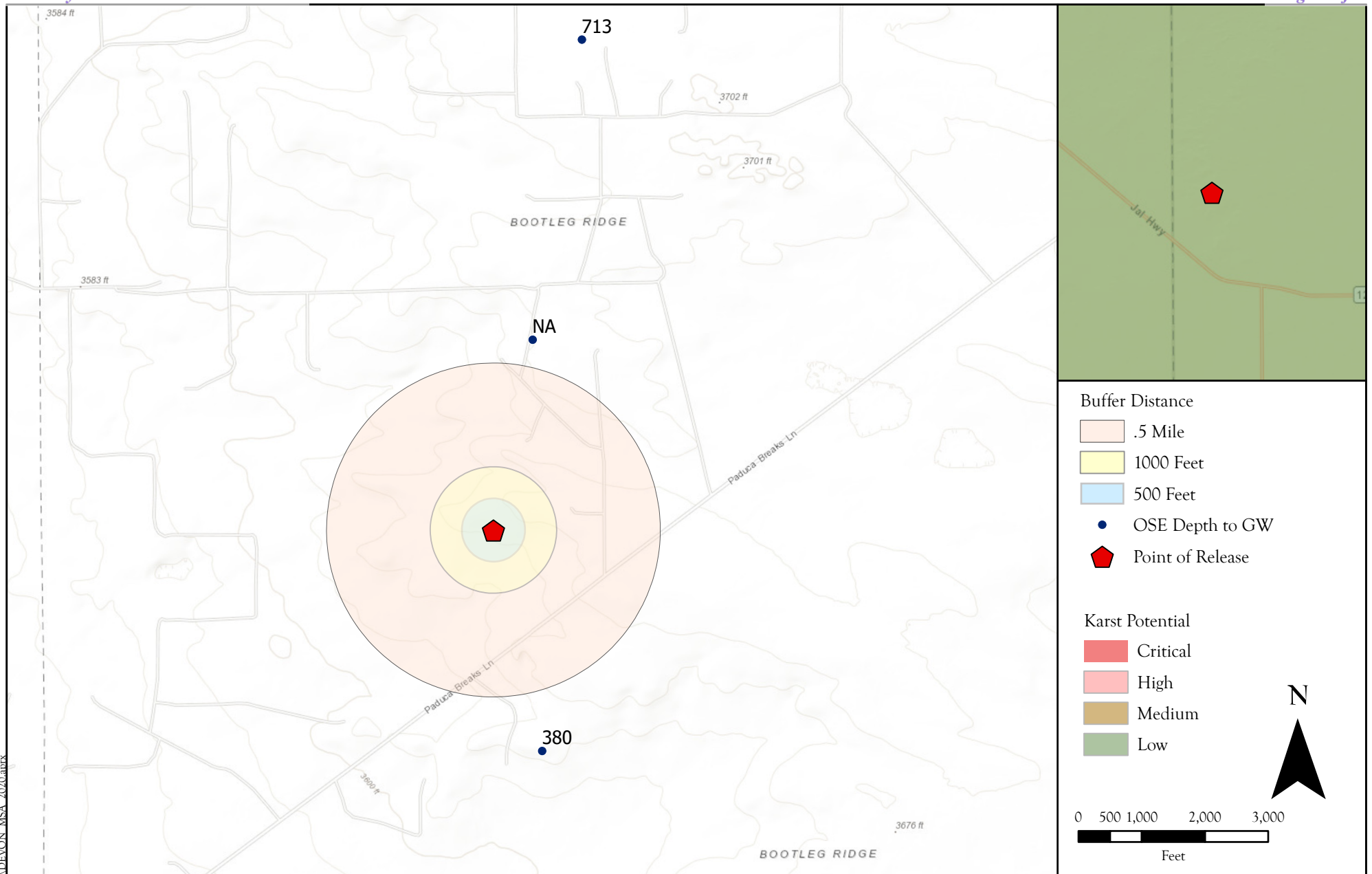
Tables:

Table 2: NMOCD Closure Criteria Justification
Table 3A: Summary of Initial Sample Results
Table 3B: Summary of Confirmation Sample Results

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



Vicinity and Well Head Protection Map
 Falcon 32 State 1 - Devon Energy Production Company
 UL: F S: 32 T: 23S R: 32E, Lea County, New Mexico

Figure 1

P:\5 Devon MSA 2020\5E291131\GIS\DEVON_MSA_2020.aprx
 Date Saved: 12/14/2020

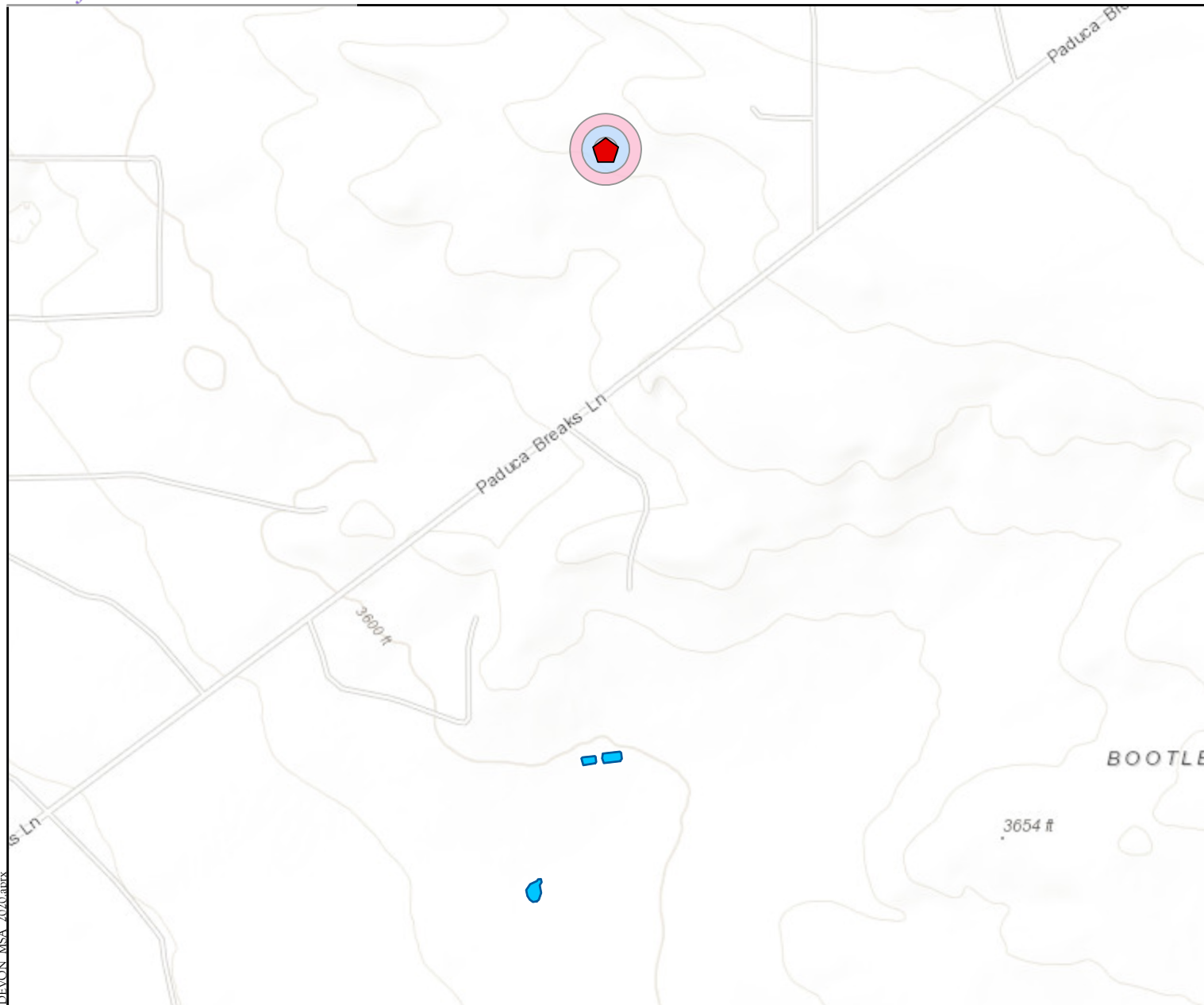
Revisions
 By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

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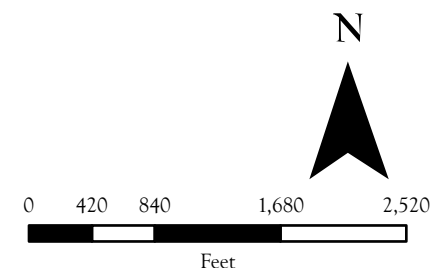
Drawn P.R. Smith
 Date 12/14/2020
 Checked _____
 Approved _____



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- Buffer Distance
- 300 Feet
 - 200 Feet
 - 100 Feet
 - Springs & Seeps
 - Streams & Canals
 - Rivers
 - Flowlines SENM
 - NM Wetlands
 - Lakes & Playas
 - FEMA Flood Zones 2011
 - ⬠ Point of Release



Surface Water Protection Map
Falcon 32 State 1 - Devon Energy Production Company
UL: F S: 32 T: 23S R: 32E, Lea County, New Mexico

Figure 2

Revisions

By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

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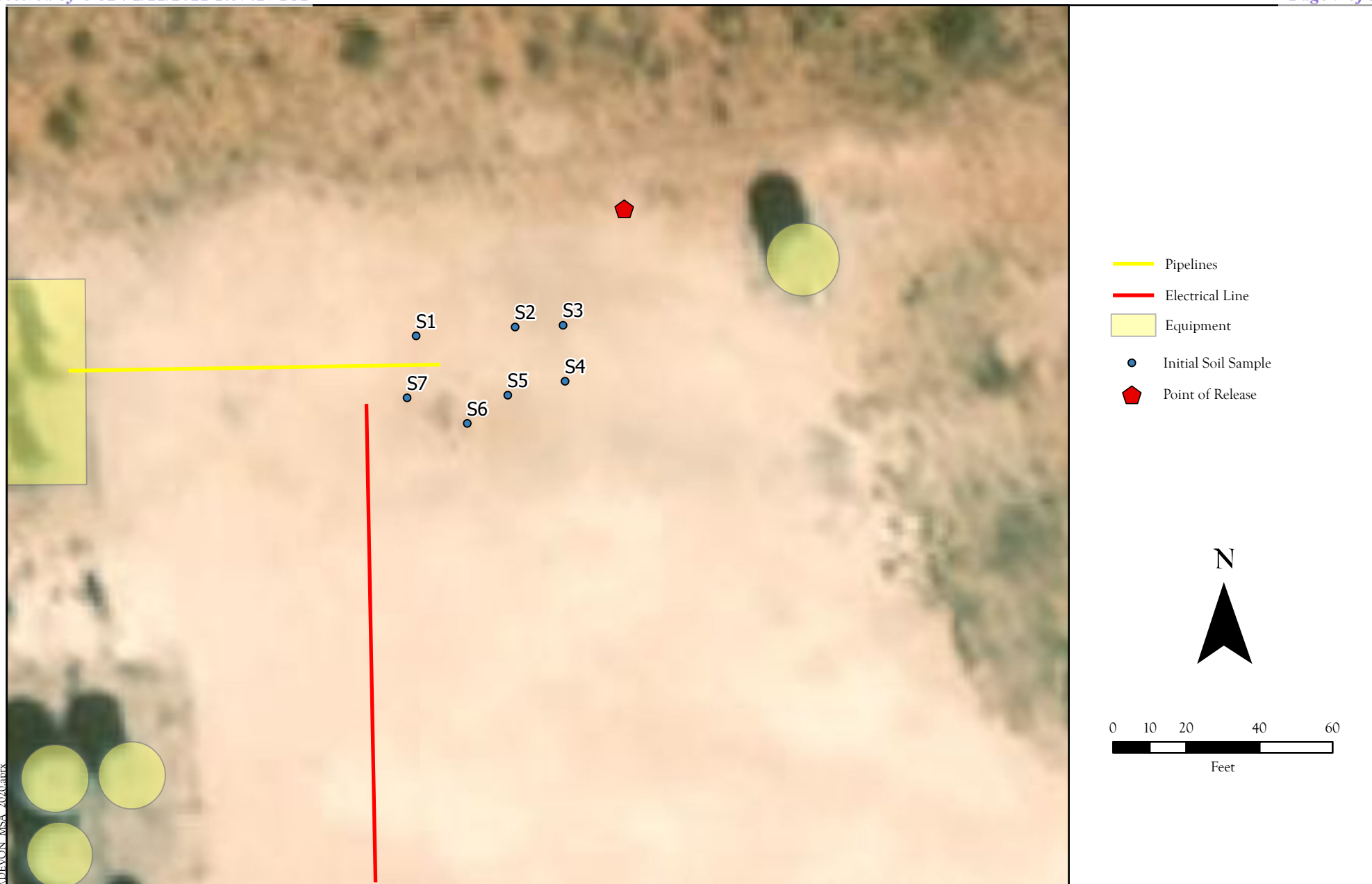
Drawn
Date
Checked
Approved

P.R. Smith

12/14/2020



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Site and Initial Sample Location Map
 Falcon 32 State 1 - Devon Energy Production Company
 UL: F S: 32 T: 23S R:32E, Eddy County, New Mexico

Figure 3

Revisions

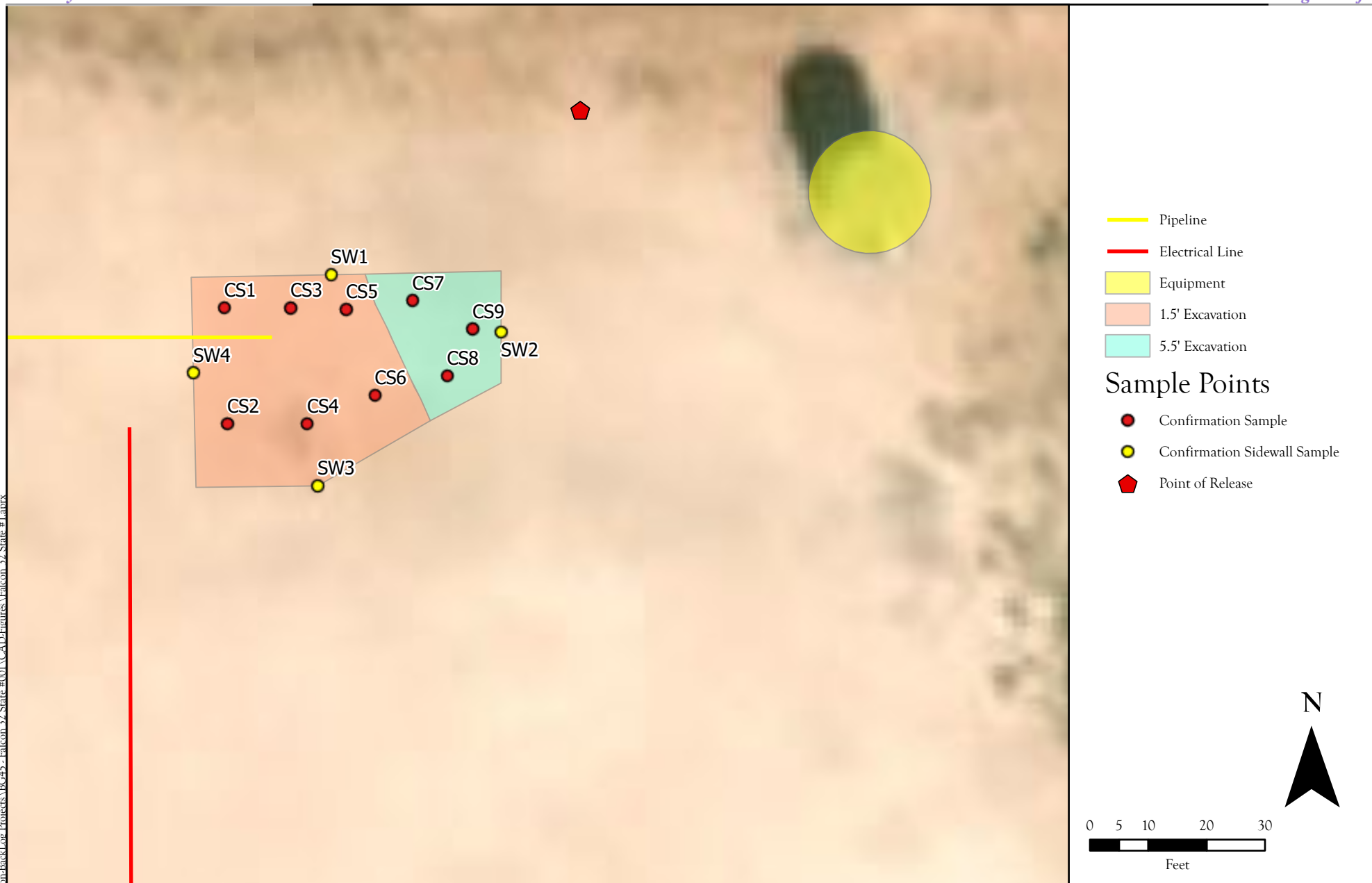
By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

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Drawn _____
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Site and Confirmation Sample Location Map
 Falcon 32 State 1 - Devon Energy Production Company
 UL: F S: 32 T: 23S R: 32E, Lea County, New Mexico

Figure 3A

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

Drawn P.R. Smith
 Date 12/22/2020
 Checked _____
 Approved _____



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TABLES

Table 2:
NMOCD Closure CriteriaDevon Energy
Falcon 32 State 1

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	543 (Estimate)	New Mexico Office of the State Engineer
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	
Horizontal Distance to Nearest Significant Watercourse (ft)	4,967	Unnamed playa located south of Falcon 32 State 1

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS	X	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?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	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						
<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 (Low.Karst)					
within a 100-year floodplain?	No					

Table 3A:
Sample ResultsDevon Energy
Falcon 32 State 1

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure Criteria				50	10	-			100	600
S1	9/2/2020	Surface	Excavate	<0.216	<0.024	<4.8	85	300	385	2300
		1	In-Situ	<0.219	<0.024	<4.9	<9.1	<46	<60	290
S2	9/2/2020	Surface	Excavate	<0.215	<0.024	<4.8	1200	2100	3300	3800
		1	Excavate	<0.221	<0.025	<4.9	<9.8	<49	<63.7	900
		2	Excavate	<0.221	<0.025	<4.9	<9.7	<49	<63.6	2200
		3	Excavate	<0.213	<0.024	<4.7	<9.8	<49	<63.5	1600
	9/15/2020	4	Excavate	<0.216	<0.024	<4.8	<9.3	<46	<60.1	810
		5	In-Situ	<0.222	<0.025	<4.9	<9.3	<46	<60.2	380
		6	In-Situ	<0.225	<0.025	<5.0	<8.8	<44	<57.8	<60
S3	9/2/2020	Surface	Excavate	<0.212	<0.024	<4.7	<9.5	<47	<61.2	5700
		1	Excavate	<0.221	<0.025	<4.9	<9.1	<45	<59	820
	9/15/2020	2	Excavate	<0.224	<0.025	<5.0	<9.3	<46	<60.3	900
		3	Excavate	<0.225	<0.025	<5.0	<9.7	<48	<62.7	3700
		4	In-Situ	<0.219	<0.024	<4.9	<9.3	<47	<61.2	410
		5	In-Situ	<0.221	<0.025	<4.9	<8.5	<42	<55.4	290
		6	In-Situ	<0.222	<0.025	<4.9	<9.0	<45	<58.9	<59
S4	9/2/2020	Surface	Excavate	<0.208	<0.023	<4.6	250	550	800	9000
		1	Excavate	<0.215	<0.024	<4.8	2100	4800	6900	2500
		2	Excavate	<0.215	<0.024	<4.8	2400	3900	6300	2500
	9/15/2020	3	Excavate	<0.220	<0.024	<4.9	<9.6	<48	<62.5	2200
		4	Excavate	<0.221	<0.025	<4.9	<9.7	<49	<63.6	1100
		5	Excavate	<0.220	<0.024	<4.9	<8.9	<45	<58.8	750
		7	In-Situ	<0.222	<0.025	<4.9	<9.8	<49	<63.7	<60
S5	9/2/2020	Surface		<0.222	<0.025	<4.9	<9.5	<48	<62.4	6400
		1		<0.221	<0.025	<4.9	<9.6	<48	<62.5	440
S6		Surface		<0.225	<0.025	<5.0	8700	10000	18700	1300
		1		<0.224	<0.025	<5.0	28	50	78	220
S7		Surface		<0.225	<0.025	<5.0	1900	3600	5500	560
		1		<0.222	<0.025	<4.9	<9.6	<48	<62.5	240

"--" = Not Analyzed

BG: Background sample

SMA #

Table 3B:
Sample ResultsDevon Energy Production Company
Falcon 32 State 1

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure Criteria				50	10	-			100	600
Confirmation Samples										
CS1	12/1/2020	1.5	In-Situ	<0.221	<0.025	<4.9	<9.6	<48	<62.5	190
CS2				<0.207	<0.023	<4.6	<9.4	<47	<61	75
CS3				<0.217	<0.024	<4.8	<9.7	<48	<62.5	<60
CS4				<0.220	<0.024	<4.9	<8.6	<43	<56.5	100
CS5				<0.222	<0.025	<4.9	<8.6	<43	<56.5	<61
CS6				<0.217	<0.024	<4.8	<8.7	<44	<57.5	<61
CS7		5.5		<0.222	<0.025	<4.9	<9.3	<46	<60.2	<60
CS8				<0.220	<0.024	<4.9	<9.4	<47	<61.3	<60
CS9				<0.225	<0.025	<5.0	<8.9	<44	<57.9	<60
SW1				<0.220	<0.024	<4.9	<9.4	<47	<61.3	<60
SW2		0 - 5.5		<0.220	<0.024	<4.9	<9.3	<46	<60.2	<61
SW3		0 - 1.5 / 5.5		<0.216	<0.024	<4.8	<9.9	<50	<64.7	<60
SW4		0 - 1.5		<0.220	<0.024	<4.9	<9.7	<49	<63.6	<60

"--" = Not Analyzed

BG: Background sample

SMA #

APPENDIX A

FORM C141

SIGN-IN HELP

Searches Operator Data Hearing Fee Application

OCD Permitting

Home Searches Incidents Incident Details

NPAC0717753390 2007 MINOR A OS @ 30-025-33001

General Incident Information

Site Name:

Well:

Facility:

Operator:

Status:

Type:

District:

[30-025-33001] FALCON 32 STATE #001

[166111] DEVON ENERGY PRODUCTION CO.

Closure Not Approved

Oil Release

Hobbs

Severity:

Surface Owner:

County:

Minor

Lea (25)

Incident Location:

Lat/Long:

Directions:

F-32-23S-32E 2080 FNL 1650 FWL

32.2625084,-103.6998367 NAD83

- Quick
- [Genera](#)
 - [Materia](#)
 - [Events](#)
 - [Orders](#)
- Assoc
- Incident
 - [Well Fil](#)
- New S
- [New Fe](#)
 - [New In](#)
 - [New O](#)
 - [New Pi](#)
 - [New S](#)
 - [New Ta](#)
 - [New W](#)

Notes

Source of Referral:

Action / Escalation:

Industry Rep

Operator Handled - No Compliance Written

Resulted In Fire:

Will or Has Reached Watercourse:

☐

☐

Endangered Public Health:

Property Or Environmental Damage:

☐

☐

Contact Details

Contact Name:

Contact Title:

Event Dates

Date of Discovery:

Extension Date:

Initial C-141 Received:

Characterization Report Received:

Remediation Plan Received:

Closure Report Received:

02/27/2007

11/15/2018

OCD Notified of Major Release:

Cancelled Date:

Characterization Report Approved:

Remediation Plan Approved:

Remediation Due:

Closure Report Approved:

02/28/2007

Incidents Materials

Cause	Source	Material	Volume				Units
			Unk.	Spilled	Recovered	Lost	
		Crude Oil	<input type="checkbox"/>	4	0	4	BBL
		Produced Water	<input type="checkbox"/>	1	0	1	BBL

Incident Events

Date	Detail
06/26/2007	tbg line to murphy switch ruptured

Incident ID	NPAC0717753390
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>546 (Estimate)</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NPAC0717753390
District RP	
Facility ID	
Application ID	

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: ____Lupe Carrasco____ Title: ____EHS Professional____

Signature: ____*Lupe Carrasco*____ Date: ____1/11/21____

email: ____Lupe.Carrasco@dvni.com____ Telephone: ____575-748-0165____

OCD Only

Received by: _____ Date: _____

Incident ID	NPAC0717753390
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: _____ Lupe Carrasco _____ Title: _____ EHS Professional _____

Signature: _____ *Lupe Carrasco* _____ Date: _____ 1/11/21 _____

email: _____ Lupe.Carrasco@dvn.com _____ Telephone: _____ 575-748-0165 _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ *Brittany Hall* _____ Date: _____ 1/23/2023 _____

Printed Name: _____ Brittany Hall _____ Title: _____ Environmental Specialist _____

APPENDIX B

NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03529 POD1	C	LE		2	4	3	29	23S	32E	622651	3571212	956	550		
C 03555 POD1	C	LE		2	2	1	05	24S	32E	622748	3569233	1080	600	380	220
C 03851 POD1	CUB	LE		3	3	4	20	23S	32E	622880	3572660	2421	1392	713	679

Average Depth to Water: **546 feet**

Minimum Depth: **380 feet**

Maximum Depth: **713 feet**

Record Count: 3

UTMNA83 Radius Search (in meters):

Easting (X): 622460.748

Northing (Y): 3570275.136

Radius: 2500

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.

12/10/20 2:16 PM

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WATER COLUMN/ AVERAGE
DEPTH TO WATER

APPENDIX C SAMPLING PROTOCOL & FIELD NOTES



Sampling Protocol

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations on Cotton Draw Unit #294H Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this 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 eight (8) 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 courier 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.

SUBJECT Falcon 32 Stotel

PROJECT Excavation

PAGE

CLIENT Dan Gargy

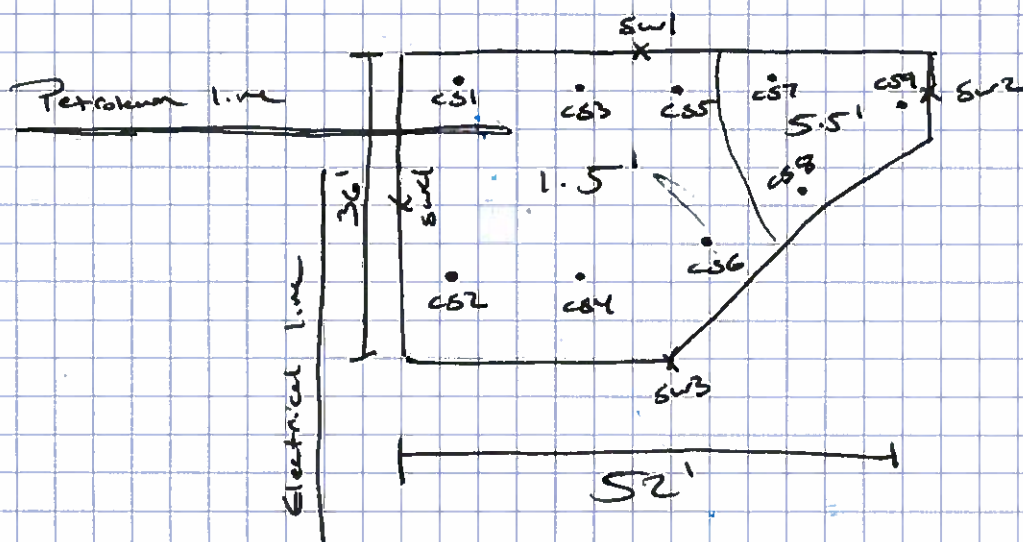
DATE 11/30-12/11

BY

CHECKED

BY

- Excavation + Collection of Confirmation Samples
- Excavating area around initial Sample locations S1-S7. Locations tested above NMOCED Closure criteria for both total TPH + Chlorides
- Soil Types
 - Observed alternating bands of slightly cemented red sand to poorly sorted limestone gravel.
- Final excavation measurements
52' x 36' x 1.5' / 5.5'
- Contaminated Soil was properly disposed of at R360 Landfill near Hobbs, NM.



APPENDIX D

LABORATORY ANALYTICAL REPORTS



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

September 16, 2020

Lynn A. Acosta
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-8801
FAX

RE: Falcon 32 State 001

OrderNo.: 2009317

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 17 sample(s) on 9/4/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S1- Surface

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:00:00 AM

Lab ID: 2009317-001

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2300	60		mg/Kg	20	9/12/2020 6:49:33 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/10/2020 3:14:41 PM	54980
Surr: BFB	96.3	70-130		%Rec	1	9/10/2020 3:14:41 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	85	19		mg/Kg	2	9/8/2020 4:55:21 PM	54982
Motor Oil Range Organics (MRO)	300	93		mg/Kg	2	9/8/2020 4:55:21 PM	54982
Surr: DNOP	116	30.4-154		%Rec	2	9/8/2020 4:55:21 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/10/2020 3:14:41 PM	54980
Toluene	ND	0.048		mg/Kg	1	9/10/2020 3:14:41 PM	54980
Ethylbenzene	ND	0.048		mg/Kg	1	9/10/2020 3:14:41 PM	54980
Xylenes, Total	ND	0.096		mg/Kg	1	9/10/2020 3:14:41 PM	54980
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%Rec	1	9/10/2020 3:14:41 PM	54980
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	9/10/2020 3:14:41 PM	54980
Surr: Dibromofluoromethane	87.0	70-130		%Rec	1	9/10/2020 3:14:41 PM	54980
Surr: Toluene-d8	102	70-130		%Rec	1	9/10/2020 3:14:41 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S1-1'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:05:00 AM

Lab ID: 2009317-002

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	290	59		mg/Kg	20	9/12/2020 7:26:48 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 3:43:59 PM	54980
Surr: BFB	98.0	70-130		%Rec	1	9/10/2020 3:43:59 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/8/2020 6:07:57 PM	54982
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/8/2020 6:07:57 PM	54982
Surr: DNOP	120	30.4-154		%Rec	1	9/8/2020 6:07:57 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/10/2020 3:43:59 PM	54980
Toluene	ND	0.049		mg/Kg	1	9/10/2020 3:43:59 PM	54980
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 3:43:59 PM	54980
Xylenes, Total	ND	0.097		mg/Kg	1	9/10/2020 3:43:59 PM	54980
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%Rec	1	9/10/2020 3:43:59 PM	54980
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	9/10/2020 3:43:59 PM	54980
Surr: Dibromofluoromethane	87.9	70-130		%Rec	1	9/10/2020 3:43:59 PM	54980
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 3:43:59 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2- Sur

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:10:00 AM

Lab ID: 2009317-003

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3600	150		mg/Kg	50	9/14/2020 5:37:33 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/10/2020 4:13:33 PM	54980
Surr: BFB	97.2	70-130		%Rec	1	9/10/2020 4:13:33 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	1200	99		mg/Kg	10	9/8/2020 6:32:22 PM	54982
Motor Oil Range Organics (MRO)	2100	500		mg/Kg	10	9/8/2020 6:32:22 PM	54982
Surr: DNOP	0	30.4-154	S	%Rec	10	9/8/2020 6:32:22 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/10/2020 4:13:33 PM	54980
Toluene	ND	0.048		mg/Kg	1	9/10/2020 4:13:33 PM	54980
Ethylbenzene	ND	0.048		mg/Kg	1	9/10/2020 4:13:33 PM	54980
Xylenes, Total	ND	0.095		mg/Kg	1	9/10/2020 4:13:33 PM	54980
Surr: 1,2-Dichloroethane-d4	91.0	70-130		%Rec	1	9/10/2020 4:13:33 PM	54980
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/10/2020 4:13:33 PM	54980
Surr: Dibromofluoromethane	89.4	70-130		%Rec	1	9/10/2020 4:13:33 PM	54980
Surr: Toluene-d8	101	70-130		%Rec	1	9/10/2020 4:13:33 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-1'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:15:00 AM

Lab ID: 2009317-004

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	900	60		mg/Kg	20	9/12/2020 8:16:27 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 4:43:23 PM	54980
Surr: BFB	97.3	70-130		%Rec	1	9/10/2020 4:43:23 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/8/2020 6:56:35 PM	54982
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2020 6:56:35 PM	54982
Surr: DNOP	111	30.4-154		%Rec	1	9/8/2020 6:56:35 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 4:43:23 PM	54980
Toluene	ND	0.049		mg/Kg	1	9/10/2020 4:43:23 PM	54980
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 4:43:23 PM	54980
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 4:43:23 PM	54980
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%Rec	1	9/10/2020 4:43:23 PM	54980
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	9/10/2020 4:43:23 PM	54980
Surr: Dibromofluoromethane	88.3	70-130		%Rec	1	9/10/2020 4:43:23 PM	54980
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 4:43:23 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-2'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:20:00 AM

Lab ID: 2009317-005

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2100	150		mg/Kg	50	9/14/2020 5:49:58 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 5:12:35 PM	54980
Surr: BFB	95.2	70-130		%Rec	1	9/10/2020 5:12:35 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/8/2020 7:20:54 PM	54982
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2020 7:20:54 PM	54982
Surr: DNOP	115	30.4-154		%Rec	1	9/8/2020 7:20:54 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 5:12:35 PM	54980
Toluene	ND	0.049		mg/Kg	1	9/10/2020 5:12:35 PM	54980
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 5:12:35 PM	54980
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 5:12:35 PM	54980
Surr: 1,2-Dichloroethane-d4	90.3	70-130		%Rec	1	9/10/2020 5:12:35 PM	54980
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/10/2020 5:12:35 PM	54980
Surr: Dibromofluoromethane	92.7	70-130		%Rec	1	9/10/2020 5:12:35 PM	54980
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 5:12:35 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-3'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:25:00 AM

Lab ID: 2009317-006

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1600	60		mg/Kg	20	9/12/2020 8:41:16 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/10/2020 5:41:46 PM	54980
Surr: BFB	96.6	70-130		%Rec	1	9/10/2020 5:41:46 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/8/2020 7:45:03 PM	54982
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2020 7:45:03 PM	54982
Surr: DNOP	118	30.4-154		%Rec	1	9/8/2020 7:45:03 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/10/2020 5:41:46 PM	54980
Toluene	ND	0.047		mg/Kg	1	9/10/2020 5:41:46 PM	54980
Ethylbenzene	ND	0.047		mg/Kg	1	9/10/2020 5:41:46 PM	54980
Xylenes, Total	ND	0.095		mg/Kg	1	9/10/2020 5:41:46 PM	54980
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	9/10/2020 5:41:46 PM	54980
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/10/2020 5:41:46 PM	54980
Surr: Dibromofluoromethane	93.1	70-130		%Rec	1	9/10/2020 5:41:46 PM	54980
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 5:41:46 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-Surface

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:30:00 AM

Lab ID: 2009317-007

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5000	300		mg/Kg	100	9/14/2020 6:02:23 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/10/2020 6:11:12 PM	54980
Surr: BFB	98.3	70-130		%Rec	1	9/10/2020 6:11:12 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/8/2020 8:09:24 PM	54982
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/8/2020 8:09:24 PM	54982
Surr: DNOP	102	30.4-154		%Rec	1	9/8/2020 8:09:24 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/10/2020 6:11:12 PM	54980
Toluene	ND	0.047		mg/Kg	1	9/10/2020 6:11:12 PM	54980
Ethylbenzene	ND	0.047		mg/Kg	1	9/10/2020 6:11:12 PM	54980
Xylenes, Total	ND	0.094		mg/Kg	1	9/10/2020 6:11:12 PM	54980
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	9/10/2020 6:11:12 PM	54980
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/10/2020 6:11:12 PM	54980
Surr: Dibromofluoromethane	90.4	70-130		%Rec	1	9/10/2020 6:11:12 PM	54980
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 6:11:12 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-1'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:35:00 AM

Lab ID: 2009317-008

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	820	59		mg/Kg	20	9/12/2020 9:06:04 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 6:40:33 PM	54980
Surr: BFB	97.7	70-130		%Rec	1	9/10/2020 6:40:33 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/8/2020 8:33:29 PM	54982
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/8/2020 8:33:29 PM	54982
Surr: DNOP	128	30.4-154		%Rec	1	9/8/2020 8:33:29 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 6:40:33 PM	54980
Toluene	ND	0.049		mg/Kg	1	9/10/2020 6:40:33 PM	54980
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 6:40:33 PM	54980
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 6:40:33 PM	54980
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%Rec	1	9/10/2020 6:40:33 PM	54980
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	9/10/2020 6:40:33 PM	54980
Surr: Dibromofluoromethane	91.4	70-130		%Rec	1	9/10/2020 6:40:33 PM	54980
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 6:40:33 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-Surface

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:40:00 AM

Lab ID: 2009317-009

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	8800	300		mg/Kg	100	9/14/2020 6:14:47 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/10/2020 7:10:10 PM	54980
Surr: BFB	100	70-130		%Rec	1	9/10/2020 7:10:10 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	250	96		mg/Kg	10	9/8/2020 9:21:49 PM	54982
Motor Oil Range Organics (MRO)	550	480		mg/Kg	10	9/8/2020 9:21:49 PM	54982
Surr: DNOP	0	30.4-154	S	%Rec	10	9/8/2020 9:21:49 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	9/10/2020 7:10:10 PM	54980
Toluene	ND	0.046		mg/Kg	1	9/10/2020 7:10:10 PM	54980
Ethylbenzene	ND	0.046		mg/Kg	1	9/10/2020 7:10:10 PM	54980
Xylenes, Total	ND	0.093		mg/Kg	1	9/10/2020 7:10:10 PM	54980
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	9/10/2020 7:10:10 PM	54980
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	9/10/2020 7:10:10 PM	54980
Surr: Dibromofluoromethane	92.1	70-130		%Rec	1	9/10/2020 7:10:10 PM	54980
Surr: Toluene-d8	106	70-130		%Rec	1	9/10/2020 7:10:10 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-1'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:45:00 AM

Lab ID: 2009317-010

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2500	150		mg/Kg	50	9/14/2020 6:27:12 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/10/2020 7:39:17 PM	54980
Surr: BFB	103	70-130		%Rec	1	9/10/2020 7:39:17 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	2100	900		mg/Kg	100	9/8/2020 9:45:57 PM	54982
Motor Oil Range Organics (MRO)	4800	4500		mg/Kg	100	9/8/2020 9:45:57 PM	54982
Surr: DNOP	0	30.4-154	S	%Rec	100	9/8/2020 9:45:57 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/10/2020 7:39:17 PM	54980
Toluene	ND	0.048		mg/Kg	1	9/10/2020 7:39:17 PM	54980
Ethylbenzene	ND	0.048		mg/Kg	1	9/10/2020 7:39:17 PM	54980
Xylenes, Total	ND	0.095		mg/Kg	1	9/10/2020 7:39:17 PM	54980
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	9/10/2020 7:39:17 PM	54980
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/10/2020 7:39:17 PM	54980
Surr: Dibromofluoromethane	94.4	70-130		%Rec	1	9/10/2020 7:39:17 PM	54980
Surr: Toluene-d8	105	70-130		%Rec	1	9/10/2020 7:39:17 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-2'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:50:00 AM

Lab ID: 2009317-011

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2300	150		mg/Kg	50	9/14/2020 7:04:25 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/10/2020 8:08:39 PM	54980
Surr: BFB	98.8	70-130		%Rec	1	9/10/2020 8:08:39 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2400	450		mg/Kg	50	9/9/2020 7:45:39 PM	54982
Motor Oil Range Organics (MRO)	3900	2200		mg/Kg	50	9/9/2020 7:45:39 PM	54982
Surr: DNOP	0	30.4-154	S	%Rec	50	9/9/2020 7:45:39 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/10/2020 8:08:39 PM	54980
Toluene	ND	0.048		mg/Kg	1	9/10/2020 8:08:39 PM	54980
Ethylbenzene	ND	0.048		mg/Kg	1	9/10/2020 8:08:39 PM	54980
Xylenes, Total	ND	0.095		mg/Kg	1	9/10/2020 8:08:39 PM	54980
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	9/10/2020 8:08:39 PM	54980
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	9/10/2020 8:08:39 PM	54980
Surr: Dibromofluoromethane	92.7	70-130		%Rec	1	9/10/2020 8:08:39 PM	54980
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 8:08:39 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S5-Surface

Project: Falcon 32 State 001

Collection Date: 9/2/2020 11:55:00 AM

Lab ID: 2009317-012

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5500	300		mg/Kg	100	9/14/2020 7:16:50 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 8:38:19 PM	54980
Surr: BFB	97.5	70-130		%Rec	1	9/10/2020 8:38:19 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/8/2020 10:34:17 PM	54982
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2020 10:34:17 PM	54982
Surr: DNOP	106	30.4-154		%Rec	1	9/8/2020 10:34:17 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 8:38:19 PM	54980
Toluene	ND	0.049		mg/Kg	1	9/10/2020 8:38:19 PM	54980
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 8:38:19 PM	54980
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 8:38:19 PM	54980
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%Rec	1	9/10/2020 8:38:19 PM	54980
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	9/10/2020 8:38:19 PM	54980
Surr: Dibromofluoromethane	92.5	70-130		%Rec	1	9/10/2020 8:38:19 PM	54980
Surr: Toluene-d8	105	70-130		%Rec	1	9/10/2020 8:38:19 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S5-1'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 12:00:00 PM

Lab ID: 2009317-013

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	440	60		mg/Kg	20	9/12/2020 10:32:55 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 9:07:51 PM	54980
Surr: BFB	95.5	70-130		%Rec	1	9/10/2020 9:07:51 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/8/2020 10:58:23 PM	54982
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2020 10:58:23 PM	54982
Surr: DNOP	108	30.4-154		%Rec	1	9/8/2020 10:58:23 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 9:07:51 PM	54980
Toluene	ND	0.049		mg/Kg	1	9/10/2020 9:07:51 PM	54980
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 9:07:51 PM	54980
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 9:07:51 PM	54980
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	9/10/2020 9:07:51 PM	54980
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	9/10/2020 9:07:51 PM	54980
Surr: Dibromofluoromethane	94.8	70-130		%Rec	1	9/10/2020 9:07:51 PM	54980
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 9:07:51 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S6-Surface

Project: Falcon 32 State 001

Collection Date: 9/2/2020 12:05:00 PM

Lab ID: 2009317-014

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	9/12/2020 10:45:19 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 9:37:27 PM	54980
Surr: BFB	98.9	70-130		%Rec	1	9/10/2020 9:37:27 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	8700	980		mg/Kg	100	9/8/2020 11:22:35 PM	54982
Motor Oil Range Organics (MRO)	10000	4900		mg/Kg	100	9/8/2020 11:22:35 PM	54982
Surr: DNOP	0	30.4-154	S	%Rec	100	9/8/2020 11:22:35 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 9:37:27 PM	54980
Toluene	ND	0.050		mg/Kg	1	9/10/2020 9:37:27 PM	54980
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 9:37:27 PM	54980
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 9:37:27 PM	54980
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%Rec	1	9/10/2020 9:37:27 PM	54980
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	9/10/2020 9:37:27 PM	54980
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	9/10/2020 9:37:27 PM	54980
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 9:37:27 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S6-1'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 12:10:00 PM

Lab ID: 2009317-015

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	220	60		mg/Kg	20	9/12/2020 10:57:43 PM	55116
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 10:07:03 PM	54980
Surr: BFB	99.3	70-130		%Rec	1	9/10/2020 10:07:03 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	28	9.0		mg/Kg	1	9/8/2020 11:46:28 PM	54982
Motor Oil Range Organics (MRO)	50	45		mg/Kg	1	9/8/2020 11:46:28 PM	54982
Surr: DNOP	119	30.4-154		%Rec	1	9/8/2020 11:46:28 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 10:07:03 PM	54980
Toluene	ND	0.050		mg/Kg	1	9/10/2020 10:07:03 PM	54980
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 10:07:03 PM	54980
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 10:07:03 PM	54980
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	9/10/2020 10:07:03 PM	54980
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	9/10/2020 10:07:03 PM	54980
Surr: Dibromofluoromethane	90.5	70-130		%Rec	1	9/10/2020 10:07:03 PM	54980
Surr: Toluene-d8	105	70-130		%Rec	1	9/10/2020 10:07:03 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S7-Surface

Project: Falcon 32 State 001

Collection Date: 9/2/2020 12:15:00 PM

Lab ID: 2009317-016

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	560	60		mg/Kg	20	9/13/2020 12:02:08 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 10:36:36 PM	54980
Surr: BFB	99.7	70-130		%Rec	1	9/10/2020 10:36:36 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1900	490		mg/Kg	50	9/9/2020 8:09:30 PM	54982
Motor Oil Range Organics (MRO)	3600	2400		mg/Kg	50	9/9/2020 8:09:30 PM	54982
Surr: DNOP	0	30.4-154	S	%Rec	50	9/9/2020 8:09:30 PM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 10:36:36 PM	54980
Toluene	ND	0.050		mg/Kg	1	9/10/2020 10:36:36 PM	54980
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 10:36:36 PM	54980
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 10:36:36 PM	54980
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%Rec	1	9/10/2020 10:36:36 PM	54980
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/10/2020 10:36:36 PM	54980
Surr: Dibromofluoromethane	94.0	70-130		%Rec	1	9/10/2020 10:36:36 PM	54980
Surr: Toluene-d8	106	70-130		%Rec	1	9/10/2020 10:36:36 PM	54980

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

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

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Analytical Report

Lab Order 2009317

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S7-1'

Project: Falcon 32 State 001

Collection Date: 9/2/2020 12:20:00 PM

Lab ID: 2009317-017

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	240	61		mg/Kg	20	9/13/2020 12:39:22 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 11:05:57 PM	54980
Surr: BFB	97.9	70-130		%Rec	1	9/10/2020 11:05:57 PM	54980
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/9/2020 12:34:32 AM	54982
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/9/2020 12:34:32 AM	54982
Surr: DNOP	116	30.4-154		%Rec	1	9/9/2020 12:34:32 AM	54982
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/10/2020 11:05:57 PM	54980
Toluene	ND	0.049		mg/Kg	1	9/10/2020 11:05:57 PM	54980
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 11:05:57 PM	54980
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 11:05:57 PM	54980
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	9/10/2020 11:05:57 PM	54980
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/10/2020 11:05:57 PM	54980
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	9/10/2020 11:05:57 PM	54980
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 11:05:57 PM	54980

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

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

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

WO#: 2009317

16-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: MB-55116	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55116	RunNo: 71818								
Prep Date: 9/12/2020	Analysis Date: 9/12/2020	SeqNo: 2513280			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55116	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55116	RunNo: 71818								
Prep Date: 9/12/2020	Analysis Date: 9/12/2020	SeqNo: 2513281			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Sample ID: MB-55118	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55118	RunNo: 71822								
Prep Date: 9/13/2020	Analysis Date: 9/13/2020	SeqNo: 2513386			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55118	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55118	RunNo: 71822								
Prep Date: 9/13/2020	Analysis Date: 9/13/2020	SeqNo: 2513387			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Qualifiers:

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

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

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

WO#: 2009317

16-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: MB-54982	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54982	RunNo: 71698								
Prep Date: 9/5/2020	Analysis Date: 9/9/2020	SeqNo: 2507538	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	30.4	154			

Sample ID: 2009317-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S1- Surface	Batch ID: 54982	RunNo: 71664								
Prep Date: 9/5/2020	Analysis Date: 9/8/2020	SeqNo: 2507542	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	20	49.46	84.54	42.9	47.4	136			S
Surr: DNOP	5.7		4.946		114	30.4	154			

Sample ID: 2009317-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S1- Surface	Batch ID: 54982	RunNo: 71664								
Prep Date: 9/5/2020	Analysis Date: 9/8/2020	SeqNo: 2507543	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	130	20	49.60	84.54	90.5	47.4	136	20.1	43.4	
Surr: DNOP	5.1		4.960		103	30.4	154	0	0	

Sample ID: LCS-54982	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54982	RunNo: 71664								
Prep Date: 9/5/2020	Analysis Date: 9/8/2020	SeqNo: 2507562	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.2	70	130			
Surr: DNOP	5.3		5.000		106	30.4	154			

Sample ID: LCS-55017	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55017	RunNo: 71698								
Prep Date: 9/8/2020	Analysis Date: 9/9/2020	SeqNo: 2509091	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		112	30.4	154			

Sample ID: MB-55017	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55017	RunNo: 71698								
Prep Date: 9/8/2020	Analysis Date: 9/9/2020	SeqNo: 2509092	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009317

16-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: MB-55017	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55017	RunNo: 71698								
Prep Date: 9/8/2020	Analysis Date: 9/9/2020	SeqNo: 2509092	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	30.4	154			

Qualifiers:

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

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

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

WO#: 2009317

16-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: mb-54980	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 54980	RunNo: 71757								
Prep Date: 9/5/2020	Analysis Date: 9/10/2020	SeqNo: 2510375	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		87.9	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		85.8	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: lcs-54980	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 54980	RunNo: 71757								
Prep Date: 9/5/2020	Analysis Date: 9/10/2020	SeqNo: 2510376	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.9	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.2	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.3	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Sample ID: 2009317-001ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S1- Surface	Batch ID: 54980	RunNo: 71757								
Prep Date: 9/5/2020	Analysis Date: 9/11/2020	SeqNo: 2510378	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9804	0	108	71.1	115			
Toluene	1.3	0.049	0.9804	0	128	79.6	132			
Ethylbenzene	1.2	0.049	0.9804	0	127	83.8	134			
Xylenes, Total	3.7	0.098	2.941	0	125	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.45		0.4902		92.7	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4902		98.5	70	130			
Surr: Dibromofluoromethane	0.44		0.4902		90.7	70	130			
Surr: Toluene-d8	0.50		0.4902		102	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009317

16-Sep-20

Client: Souder, Miller & Associates

Project: Falcon 32 State 001

Sample ID: 2009317-001amsd		SampType: MSD4		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: S1- Surface		Batch ID: 54980		RunNo: 71757						
Prep Date: 9/5/2020		Analysis Date: 9/11/2020		SeqNo: 2510379		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9606	0	110	71.1	115	0.181	20	
Toluene	1.2	0.048	0.9606	0	129	79.6	132	1.16	20	
Ethylbenzene	1.2	0.048	0.9606	0	128	83.8	134	1.39	20	
Xylenes, Total	3.6	0.096	2.882	0	126	82.4	132	1.38	20	
Surr: 1,2-Dichloroethane-d4	0.45		0.4803		93.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.47		0.4803		97.9	70	130	0	0	
Surr: Dibromofluoromethane	0.45		0.4803		93.3	70	130	0	0	
Surr: Toluene-d8	0.48		0.4803		101	70	130	0	0	

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2009317

16-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: mb-54980	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 54980	RunNo: 71757								
Prep Date: 9/5/2020	Analysis Date: 9/10/2020	SeqNo: 2510416			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	480		500.0		96.9	70	130			

Sample ID: lcs-54980	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 54980	RunNo: 71757								
Prep Date: 9/5/2020	Analysis Date: 9/10/2020	SeqNo: 2510417			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.6	70	130			
Surr: BFB	480		500.0		95.5	70	130			

Sample ID: 2009317-002ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S1-1'	Batch ID: 54980	RunNo: 71757								
Prep Date: 9/5/2020	Analysis Date: 9/11/2020	SeqNo: 2510420			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.58	0	106	49.2	122			
Surr: BFB	460		491.6		94.5	70	130			

Sample ID: 2009317-002amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S1-1'	Batch ID: 54980	RunNo: 71757								
Prep Date: 9/5/2020	Analysis Date: 9/11/2020	SeqNo: 2510421			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.90	0	105	49.2	122	4.44	20	
Surr: BFB	450		478.0		94.1	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Souder, Miller & Associates Work Order Number: 2009317 RcptNo: 1

Received By: Cheyenne Cason 9/4/2020 8:00:00 AM

Completed By: Juan Rojas 9/4/2020 9:39:46 AM

Reviewed By: LP 9/4/20

Juan Rojas

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *Em 9/4/20*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good				
2	3.8	Good				



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

September 28, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-8801
FAX:

RE: Falcon 32 State 001

OrderNo.: 2009B04

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 12 sample(s) on 9/18/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-4'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:00:00 AM

Lab ID: 2009B04-001

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	810	59		mg/Kg	20	9/24/2020 4:43:06 PM	55422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/22/2020 1:45:25 PM	55297
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/22/2020 1:45:25 PM	55297
Surr: DNOP	77.7	30.4-154		%Rec	1	9/22/2020 1:45:25 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/21/2020 2:11:30 PM	55291
Surr: BFB	91.4	75.3-105		%Rec	1	9/21/2020 2:11:30 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/21/2020 2:11:30 PM	55291
Toluene	ND	0.048		mg/Kg	1	9/21/2020 2:11:30 PM	55291
Ethylbenzene	ND	0.048		mg/Kg	1	9/21/2020 2:11:30 PM	55291
Xylenes, Total	ND	0.096		mg/Kg	1	9/21/2020 2:11:30 PM	55291
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/21/2020 2:11:30 PM	55291

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

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

Page 1 of 17

Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-5'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:05:00 AM

Lab ID: 2009B04-002

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	380	60		mg/Kg	20	9/24/2020 5:20:09 PM	55422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/22/2020 1:55:04 PM	55297
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/22/2020 1:55:04 PM	55297
Surr: DNOP	108	30.4-154		%Rec	1	9/22/2020 1:55:04 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 2:35:01 PM	55291
Surr: BFB	88.5	75.3-105		%Rec	1	9/21/2020 2:35:01 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/21/2020 2:35:01 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/21/2020 2:35:01 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/21/2020 2:35:01 PM	55291
Xylenes, Total	ND	0.099		mg/Kg	1	9/21/2020 2:35:01 PM	55291
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/21/2020 2:35:01 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-6'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:10:00 AM

Lab ID: 2009B04-003

Matrix: SOIL

Received Date: 9/18/2020 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	9/24/2020 5:32:30 PM	55422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	9/22/2020 2:04:44 PM	55297
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/22/2020 2:04:44 PM	55297
Surr: DNOP	83.8	30.4-154		%Rec	1	9/22/2020 2:04:44 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/22/2020 11:34:56 AM	55291
Surr: BFB	81.0	75.3-105		%Rec	1	9/22/2020 11:34:56 AM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/22/2020 11:34:56 AM	55291
Toluene	ND	0.050		mg/Kg	1	9/22/2020 11:34:56 AM	55291
Ethylbenzene	ND	0.050		mg/Kg	1	9/22/2020 11:34:56 AM	55291
Xylenes, Total	ND	0.10		mg/Kg	1	9/22/2020 11:34:56 AM	55291
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	9/22/2020 11:34:56 AM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-2'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:15:00 AM

Lab ID: 2009B04-004

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4900	150		mg/Kg	50	9/25/2020 7:03:50 PM	55422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/22/2020 2:14:24 PM	55297
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/22/2020 2:14:24 PM	55297
Surr: DNOP	92.2	30.4-154		%Rec	1	9/22/2020 2:14:24 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/22/2020 11:58:18 AM	55291
Surr: BFB	87.3	75.3-105		%Rec	1	9/22/2020 11:58:18 AM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/22/2020 11:58:18 AM	55291
Toluene	ND	0.050		mg/Kg	1	9/22/2020 11:58:18 AM	55291
Ethylbenzene	ND	0.050		mg/Kg	1	9/22/2020 11:58:18 AM	55291
Xylenes, Total	ND	0.099		mg/Kg	1	9/22/2020 11:58:18 AM	55291
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	9/22/2020 11:58:18 AM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-3'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:20:00 AM

Lab ID: 2009B04-005

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3700	150		mg/Kg	50	9/25/2020 7:16:14 PM	55422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2020 2:24:06 PM	55297
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/22/2020 2:24:06 PM	55297
Surr: DNOP	108	30.4-154		%Rec	1	9/22/2020 2:24:06 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/22/2020 12:21:45 PM	55291
Surr: BFB	85.9	75.3-105		%Rec	1	9/22/2020 12:21:45 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/22/2020 12:21:45 PM	55291
Toluene	ND	0.050		mg/Kg	1	9/22/2020 12:21:45 PM	55291
Ethylbenzene	ND	0.050		mg/Kg	1	9/22/2020 12:21:45 PM	55291
Xylenes, Total	ND	0.10		mg/Kg	1	9/22/2020 12:21:45 PM	55291
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	9/22/2020 12:21:45 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-4'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:25:00 AM

Lab ID: 2009B04-006

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	410	60		mg/Kg	20	9/24/2020 6:09:34 PM	55422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/22/2020 2:33:47 PM	55297
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/22/2020 2:33:47 PM	55297
Surr: DNOP	69.0	30.4-154		%Rec	1	9/22/2020 2:33:47 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2020 12:45:11 PM	55291
Surr: BFB	89.3	75.3-105		%Rec	1	9/22/2020 12:45:11 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/22/2020 12:45:11 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/22/2020 12:45:11 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2020 12:45:11 PM	55291
Xylenes, Total	ND	0.097		mg/Kg	1	9/22/2020 12:45:11 PM	55291
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/22/2020 12:45:11 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-5'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:30:00 AM

Lab ID: 2009B04-007

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	290	60		mg/Kg	20	9/24/2020 6:46:37 PM	55422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	9/22/2020 2:43:39 PM	55297
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	9/22/2020 2:43:39 PM	55297
Surr: DNOP	47.8	30.4-154		%Rec	1	9/22/2020 2:43:39 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2020 3:29:47 PM	55291
Surr: BFB	86.7	75.3-105		%Rec	1	9/22/2020 3:29:47 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/22/2020 3:29:47 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/22/2020 3:29:47 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2020 3:29:47 PM	55291
Xylenes, Total	ND	0.098		mg/Kg	1	9/22/2020 3:29:47 PM	55291
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/22/2020 3:29:47 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-6'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:35:00 AM

Lab ID: 2009B04-008

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	59		mg/Kg	20	9/24/2020 10:26:34 PM	55435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/22/2020 2:53:31 PM	55297
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/22/2020 2:53:31 PM	55297
Surr: DNOP	63.8	30.4-154		%Rec	1	9/22/2020 2:53:31 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2020 3:53:14 PM	55291
Surr: BFB	90.9	75.3-105		%Rec	1	9/22/2020 3:53:14 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/22/2020 3:53:14 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/22/2020 3:53:14 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2020 3:53:14 PM	55291
Xylenes, Total	ND	0.099		mg/Kg	1	9/22/2020 3:53:14 PM	55291
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/22/2020 3:53:14 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-3'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:40:00 AM

Lab ID: 2009B04-009

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2200	60		mg/Kg	20	9/24/2020 11:03:46 PM	55435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2020 3:03:24 PM	55297
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/22/2020 3:03:24 PM	55297
Surr: DNOP	64.0	30.4-154		%Rec	1	9/22/2020 3:03:24 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2020 4:16:40 PM	55291
Surr: BFB	87.2	75.3-105		%Rec	1	9/22/2020 4:16:40 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/22/2020 4:16:40 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/22/2020 4:16:40 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2020 4:16:40 PM	55291
Xylenes, Total	ND	0.098		mg/Kg	1	9/22/2020 4:16:40 PM	55291
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/22/2020 4:16:40 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-4'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:45:00 AM

Lab ID: 2009B04-010

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	60		mg/Kg	20	9/24/2020 11:16:11 PM	55435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2020 3:13:17 PM	55297
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/22/2020 3:13:17 PM	55297
Surr: DNOP	85.8	30.4-154		%Rec	1	9/22/2020 3:13:17 PM	55297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2020 4:40:09 PM	55291
Surr: BFB	87.6	75.3-105		%Rec	1	9/22/2020 4:40:09 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/22/2020 4:40:09 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/22/2020 4:40:09 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2020 4:40:09 PM	55291
Xylenes, Total	ND	0.098		mg/Kg	1	9/22/2020 4:40:09 PM	55291
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/22/2020 4:40:09 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-5'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:50:00 AM

Lab ID: 2009B04-011

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	750	60		mg/Kg	20	9/24/2020 11:28:35 PM	55435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	9/22/2020 4:31:50 PM	55318
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/22/2020 4:31:50 PM	55318
Surr: DNOP	83.5	30.4-154		%Rec	1	9/22/2020 4:31:50 PM	55318
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2020 5:03:33 PM	55291
Surr: BFB	84.2	75.3-105		%Rec	1	9/22/2020 5:03:33 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/22/2020 5:03:33 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/22/2020 5:03:33 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2020 5:03:33 PM	55291
Xylenes, Total	ND	0.098		mg/Kg	1	9/22/2020 5:03:33 PM	55291
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	9/22/2020 5:03:33 PM	55291

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

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

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Analytical Report

Lab Order 2009B04

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-7'

Project: Falcon 32 State 001

Collection Date: 9/15/2020 10:55:00 AM

Lab ID: 2009B04-012

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	9/24/2020 11:40:59 PM	55435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/22/2020 4:41:37 PM	55318
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/22/2020 4:41:37 PM	55318
Surr: DNOP	81.6	30.4-154		%Rec	1	9/22/2020 4:41:37 PM	55318
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2020 5:26:57 PM	55291
Surr: BFB	89.7	75.3-105		%Rec	1	9/22/2020 5:26:57 PM	55291
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/22/2020 5:26:57 PM	55291
Toluene	ND	0.049		mg/Kg	1	9/22/2020 5:26:57 PM	55291
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2020 5:26:57 PM	55291
Xylenes, Total	ND	0.099		mg/Kg	1	9/22/2020 5:26:57 PM	55291
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/22/2020 5:26:57 PM	55291

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

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

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

WO#: 2009B04

28-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: MB-55435	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55435	RunNo: 72148								
Prep Date: 9/24/2020	Analysis Date: 9/24/2020	SeqNo: 2529091	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55435	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55435	RunNo: 72148								
Prep Date: 9/24/2020	Analysis Date: 9/24/2020	SeqNo: 2529092	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Sample ID: MB-55422	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55422	RunNo: 72115								
Prep Date: 9/24/2020	Analysis Date: 9/24/2020	SeqNo: 2529132	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55422	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55422	RunNo: 72115								
Prep Date: 9/24/2020	Analysis Date: 9/24/2020	SeqNo: 2529133	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Qualifiers:

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

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

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

WO#: 2009B04

28-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: LCS-55297	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55297	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524681 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	127	70	130			
Surr: DNOP	7.7		5.000		154	30.4	154			

Sample ID: LCS-55318	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55318	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524682 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	70	130			
Surr: DNOP	3.7		5.000		74.6	30.4	154			

Sample ID: LCS-55322	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55322	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524684 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.5	30.4	154			

Sample ID: LCS-55325	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55325	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/23/2020	SeqNo: 2524685 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.7	30.4	154			

Sample ID: MB-55297	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55297	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524686 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	13		10.00		127	30.4	154			

Sample ID: MB-55318	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55318	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524687 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

Qualifiers:

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

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

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

WO#: 2009B04

28-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: MB-55318	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55318	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524687	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.2		10.00		72.3	30.4	154			

Sample ID: MB-55322	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55322	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524688	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		86.2	30.4	154			

Sample ID: MB-55325	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55325	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: 2524689	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		90.9	30.4	154			

Qualifiers:

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

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

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

WO#: 2009B04

28-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: mb-55291	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 55291	RunNo: 72024								
Prep Date: 9/20/2020	Analysis Date: 9/21/2020	SeqNo: 2521835	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	870		1000		87.3	75.3	105			

Sample ID: lcs-55291	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 55291	RunNo: 72024								
Prep Date: 9/20/2020	Analysis Date: 9/21/2020	SeqNo: 2521836	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.4	72.5	106			
Surr: BFB	960		1000		96.0	75.3	105			

Qualifiers:

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

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

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

WO#: 2009B04

28-Sep-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 001

Sample ID: mb-55291	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 55291	RunNo: 72024								
Prep Date: 9/20/2020	Analysis Date: 9/21/2020	SeqNo: 2521851	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: LCS-55291	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 55291	RunNo: 72024								
Prep Date: 9/20/2020	Analysis Date: 9/21/2020	SeqNo: 2521852	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: Souder, Miller & Associates

Work Order Number: 2009B04

RcptNo: 1

Received By: Cheyenne Cason 9/18/2020 8:00:00 AM

Completed By: Juan Rojas 9/18/2020 9:33:25 AM

Reviewed By: *am*

9/18/20

Juan Rojas

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *am 9/18/20*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good				
2	5.6	Good				
3	2.9	Good				

Chain-of-Custody Record

Client: Smc - Carlsbad

Mailing Address: _____

Phone #: _____

email or Fax#: _____

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

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 5 Days

☒ Standard ☐ Rush

Project Name: Falcon 32 State coal

Project #: _____

Project Manager: Ashley Maxwell

Sampler: _____

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): See Summary (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9/15	10:00	Soil	S2-41	402	Cool	2009304
	10:08		S2-51			-001
	10:10		S2-61			-002
	10:15		S3-21			-003
	10:20		S3-31			-004
	10:25		S3-41			-005
	10:30		S3-51			-006
	10:35		S3-61			-007
	10:40		S4-31			-008
	10:45		S4-41			-009
	10:50		S4-51			-010
	10:55		S4-71			-011

Date: 9/17/20 Time: 1445

Relinquished by: Tril Smith

Date: 9/17/20 Time: 1900

Relinquished by: Glumina

Analysis Request

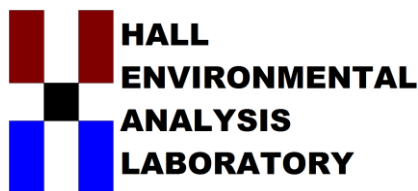
TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
BTEX MTBE / TMB's (8021)								

Remarks:

4.9 + 0.1 = 5.0

5.5 + 0.1 = 5.6

2.8 + 0.1 = 2.9



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

December 11, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL:
FAX:

RE: Falcon 32 State 1

OrderNo.: 2012246

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/4/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS1

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:00:00 PM

Lab ID: 2012246-001

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	59		mg/Kg	20	12/9/2020 11:55:06 PM	56899
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 4:30:11 PM	56807
Surr: BFB	106	70-130		%Rec	1	12/6/2020 4:30:11 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/7/2020 11:36:32 AM	56810
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/7/2020 11:36:32 AM	56810
Surr: DNOP	111	30.4-154		%Rec	1	12/7/2020 11:36:32 AM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	12/6/2020 4:30:11 PM	56807
Toluene	ND	0.049		mg/Kg	1	12/6/2020 4:30:11 PM	56807
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 4:30:11 PM	56807
Xylenes, Total	ND	0.098		mg/Kg	1	12/6/2020 4:30:11 PM	56807
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/6/2020 4:30:11 PM	56807
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/6/2020 4:30:11 PM	56807
Surr: Dibromofluoromethane	116	70-130		%Rec	1	12/6/2020 4:30:11 PM	56807
Surr: Toluene-d8	99.8	70-130		%Rec	1	12/6/2020 4:30:11 PM	56807

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

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

Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS2

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:05:00 PM

Lab ID: 2012246-002

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	75	60		mg/Kg	20	12/10/2020 12:07:31 AM	56899
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/6/2020 4:59:02 PM	56807
Surr: BFB	105	70-130		%Rec	1	12/6/2020 4:59:02 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/7/2020 11:46:04 AM	56810
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2020 11:46:04 AM	56810
Surr: DNOP	108	30.4-154		%Rec	1	12/7/2020 11:46:04 AM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	12/6/2020 4:59:02 PM	56807
Toluene	ND	0.046		mg/Kg	1	12/6/2020 4:59:02 PM	56807
Ethylbenzene	ND	0.046		mg/Kg	1	12/6/2020 4:59:02 PM	56807
Xylenes, Total	ND	0.092		mg/Kg	1	12/6/2020 4:59:02 PM	56807
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	12/6/2020 4:59:02 PM	56807
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/6/2020 4:59:02 PM	56807
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/6/2020 4:59:02 PM	56807
Surr: Toluene-d8	100	70-130		%Rec	1	12/6/2020 4:59:02 PM	56807

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

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

Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS3

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:10:00 PM

Lab ID: 2012246-003

Matrix: SOIL

Received Date: 12/4/2020 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	12/10/2020 4:38:55 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2020 5:27:52 PM	56807
Surr: BFB	102	70-130		%Rec	1	12/6/2020 5:27:52 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/7/2020 11:55:40 AM	56810
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/7/2020 11:55:40 AM	56810
Surr: DNOP	95.4	30.4-154		%Rec	1	12/7/2020 11:55:40 AM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/6/2020 5:27:52 PM	56807
Toluene	ND	0.048		mg/Kg	1	12/6/2020 5:27:52 PM	56807
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2020 5:27:52 PM	56807
Xylenes, Total	ND	0.097		mg/Kg	1	12/6/2020 5:27:52 PM	56807
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/6/2020 5:27:52 PM	56807
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	12/6/2020 5:27:52 PM	56807
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/6/2020 5:27:52 PM	56807
Surr: Toluene-d8	101	70-130		%Rec	1	12/6/2020 5:27:52 PM	56807

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

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

Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS4

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:15:00 PM

Lab ID: 2012246-004

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	100	60		mg/Kg	20	12/10/2020 5:16:10 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 5:56:37 PM	56807
Surr: BFB	107	70-130		%Rec	1	12/6/2020 5:56:37 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	12/7/2020 12:05:17 PM	56810
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	12/7/2020 12:05:17 PM	56810
Surr: DNOP	113	30.4-154		%Rec	1	12/7/2020 12:05:17 PM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/6/2020 5:56:37 PM	56807
Toluene	ND	0.049		mg/Kg	1	12/6/2020 5:56:37 PM	56807
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 5:56:37 PM	56807
Xylenes, Total	ND	0.098		mg/Kg	1	12/6/2020 5:56:37 PM	56807
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/6/2020 5:56:37 PM	56807
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/6/2020 5:56:37 PM	56807
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/6/2020 5:56:37 PM	56807
Surr: Toluene-d8	104	70-130		%Rec	1	12/6/2020 5:56:37 PM	56807

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

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

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

Lab Order 2012246

Date Reported: 12/11/2020

CLIENT: Souder, Miller & Associates**Client Sample ID:** CS5**Project:** Falcon 32 State 1**Collection Date:** 12/1/2020 1:20:00 PM**Lab ID:** 2012246-005**Matrix:** SOIL**Received Date:** 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	12/10/2020 5:28:35 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 6:25:21 PM	56807
Surr: BFB	107	70-130		%Rec	1	12/6/2020 6:25:21 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	12/7/2020 12:14:55 PM	56810
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	12/7/2020 12:14:55 PM	56810
Surr: DNOP	121	30.4-154		%Rec	1	12/7/2020 12:14:55 PM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	12/6/2020 6:25:21 PM	56807
Toluene	ND	0.049		mg/Kg	1	12/6/2020 6:25:21 PM	56807
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 6:25:21 PM	56807
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2020 6:25:21 PM	56807
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/6/2020 6:25:21 PM	56807
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	12/6/2020 6:25:21 PM	56807
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/6/2020 6:25:21 PM	56807
Surr: Toluene-d8	104	70-130		%Rec	1	12/6/2020 6:25:21 PM	56807

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

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

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

Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS6

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:25:00 PM

Lab ID: 2012246-006

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	12/10/2020 6:05:47 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2020 6:54:03 PM	56807
Surr: BFB	103	70-130		%Rec	1	12/6/2020 6:54:03 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	12/7/2020 12:24:35 PM	56810
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/7/2020 12:24:35 PM	56810
Surr: DNOP	116	30.4-154		%Rec	1	12/7/2020 12:24:35 PM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/6/2020 6:54:03 PM	56807
Toluene	ND	0.048		mg/Kg	1	12/6/2020 6:54:03 PM	56807
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2020 6:54:03 PM	56807
Xylenes, Total	ND	0.097		mg/Kg	1	12/6/2020 6:54:03 PM	56807
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	12/6/2020 6:54:03 PM	56807
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	12/6/2020 6:54:03 PM	56807
Surr: Dibromofluoromethane	108	70-130		%Rec	1	12/6/2020 6:54:03 PM	56807
Surr: Toluene-d8	99.6	70-130		%Rec	1	12/6/2020 6:54:03 PM	56807

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

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

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Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS7

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:30:00 PM

Lab ID: 2012246-007

Matrix: SOIL

Received Date: 12/4/2020 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	12/10/2020 6:18:12 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 7:22:43 PM	56807
Surr: BFB	102	70-130		%Rec	1	12/6/2020 7:22:43 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/7/2020 12:34:27 PM	56810
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/7/2020 12:34:27 PM	56810
Surr: DNOP	115	30.4-154		%Rec	1	12/7/2020 12:34:27 PM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	12/6/2020 7:22:43 PM	56807
Toluene	ND	0.049		mg/Kg	1	12/6/2020 7:22:43 PM	56807
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 7:22:43 PM	56807
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2020 7:22:43 PM	56807
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	12/6/2020 7:22:43 PM	56807
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/6/2020 7:22:43 PM	56807
Surr: Dibromofluoromethane	106	70-130		%Rec	1	12/6/2020 7:22:43 PM	56807
Surr: Toluene-d8	100	70-130		%Rec	1	12/6/2020 7:22:43 PM	56807

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

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

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Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS8

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:35:00 PM

Lab ID: 2012246-008

Matrix: SOIL

Received Date: 12/4/2020 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	12/10/2020 6:30:37 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 7:51:21 PM	56807
Surr: BFB	103	70-130		%Rec	1	12/6/2020 7:51:21 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/7/2020 12:44:17 PM	56810
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2020 12:44:17 PM	56810
Surr: DNOP	113	30.4-154		%Rec	1	12/7/2020 12:44:17 PM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/6/2020 7:51:21 PM	56807
Toluene	ND	0.049		mg/Kg	1	12/6/2020 7:51:21 PM	56807
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 7:51:21 PM	56807
Xylenes, Total	ND	0.098		mg/Kg	1	12/6/2020 7:51:21 PM	56807
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/6/2020 7:51:21 PM	56807
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	12/6/2020 7:51:21 PM	56807
Surr: Dibromofluoromethane	104	70-130		%Rec	1	12/6/2020 7:51:21 PM	56807
Surr: Toluene-d8	99.0	70-130		%Rec	1	12/6/2020 7:51:21 PM	56807

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

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

Analytical Report

Lab Order 2012246

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS9

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:40:00 PM

Lab ID: 2012246-009

Matrix: SOIL

Received Date: 12/4/2020 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	12/10/2020 6:43:02 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/6/2020 8:19:55 PM	56807
Surr: BFB	107	70-130		%Rec	1	12/6/2020 8:19:55 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/7/2020 12:54:08 PM	56810
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/7/2020 12:54:08 PM	56810
Surr: DNOP	118	30.4-154		%Rec	1	12/7/2020 12:54:08 PM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	12/6/2020 8:19:55 PM	56807
Toluene	ND	0.050		mg/Kg	1	12/6/2020 8:19:55 PM	56807
Ethylbenzene	ND	0.050		mg/Kg	1	12/6/2020 8:19:55 PM	56807
Xylenes, Total	ND	0.10		mg/Kg	1	12/6/2020 8:19:55 PM	56807
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	12/6/2020 8:19:55 PM	56807
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	12/6/2020 8:19:55 PM	56807
Surr: Dibromofluoromethane	106	70-130		%Rec	1	12/6/2020 8:19:55 PM	56807
Surr: Toluene-d8	102	70-130		%Rec	1	12/6/2020 8:19:55 PM	56807

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

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

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

WO#: 2012246

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: MB-56899	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56899	RunNo: 73916								
Prep Date: 12/9/2020	Analysis Date: 12/9/2020	SeqNo: 2606681	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56899	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56899	RunNo: 73916								
Prep Date: 12/9/2020	Analysis Date: 12/9/2020	SeqNo: 2606682	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	90	110			

Sample ID: MB-56921	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56921	RunNo: 73927								
Prep Date: 12/10/2020	Analysis Date: 12/10/2020	SeqNo: 2608089	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56921	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56921	RunNo: 73927								
Prep Date: 12/10/2020	Analysis Date: 12/10/2020	SeqNo: 2608090	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Qualifiers:

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

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

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

WO#: 2012246

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: MB-56810	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56810	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603181	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	30.4	154			

Sample ID: LCS-56810	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56810	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603183	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	5.3		5.000		106	30.4	154			

Qualifiers:

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

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

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

WO#: 2012246

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: S73810		RunNo: 73810							
Prep Date:	Analysis Date: 12/5/2020		SeqNo: 2601700		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.48		0.5000		96.6	70	130			

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch ID: S73810		RunNo: 73810							
Prep Date:	Analysis Date: 12/5/2020		SeqNo: 2601701		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.9	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	70	130			

Sample ID: mb-56807	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 56807		RunNo: 73810							
Prep Date: 12/4/2020	Analysis Date: 12/5/2020		SeqNo: 2601713		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	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		113	70	130			
Surr: Toluene-d8	0.49		0.5000		98.9	70	130			

Sample ID: lcs-56807	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 56807		RunNo: 73810							
Prep Date: 12/4/2020	Analysis Date: 12/5/2020		SeqNo: 2601715		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2012246
11-Dec-20

Client: Souder, Miller & Associates
Project: Falcon 32 State 1

Sample ID: Ics-56807	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56807	RunNo: 73810								
Prep Date: 12/4/2020	Analysis Date: 12/5/2020	SeqNo: 2601715	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.49		0.5000		97.3	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2012246

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: G73810		RunNo: 73810							
Prep Date:	Analysis Date: 12/5/2020		SeqNo: 2601720		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		105	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: G73810		RunNo: 73810							
Prep Date:	Analysis Date: 12/5/2020		SeqNo: 2601721		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		106	70	130			

Sample ID: mb-56807	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 56807		RunNo: 73810							
Prep Date: 12/4/2020	Analysis Date: 12/5/2020		SeqNo: 2601733		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	530		500.0		105	70	130			

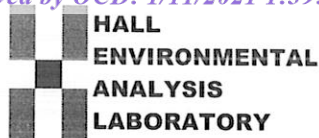
Sample ID: lcs-56807	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 56807		RunNo: 73810							
Prep Date: 12/4/2020	Analysis Date: 12/5/2020		SeqNo: 2601734		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.6	70	130			
Surr: BFB	530		500.0		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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 14 of 14



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

Sample Log-In Check List

Client Name: **Souder, Miller & Associates**

Work Order Number: **2012246**

RcptNo: 1

Received By: **Sean Livingston**

12/4/2020 8:00:00 AM

Completed By: **Emily Mocho**

12/4/2020 9:42:47 AM

Reviewed By: **IO**

12/4/20

See Log

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *SGC 12/4/20*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				
2	0.2	Good				
3	1.5	Good				



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

December 11, 2020

Heather Patterson
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL:
FAX:

RE: Falcon 32 State 1

OrderNo.: 2012249

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/4/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2012249

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:45:00 PM

Lab ID: 2012249-001

Matrix: SOIL

Received Date: 12/4/2020 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	12/10/2020 6:55:27 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 8:48:28 PM	56807
Surr: BFB	105	70-130		%Rec	1	12/6/2020 8:48:28 PM	56807
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/7/2020 1:03:56 PM	56810
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2020 1:03:56 PM	56810
Surr: DNOP	118	30.4-154		%Rec	1	12/7/2020 1:03:56 PM	56810
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/6/2020 8:48:28 PM	56807
Toluene	ND	0.049		mg/Kg	1	12/6/2020 8:48:28 PM	56807
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 8:48:28 PM	56807
Xylenes, Total	ND	0.098		mg/Kg	1	12/6/2020 8:48:28 PM	56807
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/6/2020 8:48:28 PM	56807
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/6/2020 8:48:28 PM	56807
Surr: Dibromofluoromethane	105	70-130		%Rec	1	12/6/2020 8:48:28 PM	56807
Surr: Toluene-d8	101	70-130		%Rec	1	12/6/2020 8:48:28 PM	56807

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

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

Analytical Report

Lab Order 2012249

Date Reported: 12/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW2

Project: Falcon 32 State 1

Collection Date: 12/1/2020 1:50:00 PM

Lab ID: 2012249-002

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	12/10/2020 7:32:40 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 9:17:00 PM	56812
Surr: BFB	103	70-130		%Rec	1	12/6/2020 9:17:00 PM	56812
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/8/2020 12:53:40 PM	56813
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2020 12:53:40 PM	56813
Surr: DNOP	112	30.4-154		%Rec	1	12/8/2020 12:53:40 PM	56813
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/6/2020 9:17:00 PM	56812
Toluene	ND	0.049		mg/Kg	1	12/6/2020 9:17:00 PM	56812
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 9:17:00 PM	56812
Xylenes, Total	ND	0.098		mg/Kg	1	12/6/2020 9:17:00 PM	56812
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	12/6/2020 9:17:00 PM	56812
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	12/6/2020 9:17:00 PM	56812
Surr: Dibromofluoromethane	107	70-130		%Rec	1	12/6/2020 9:17:00 PM	56812
Surr: Toluene-d8	103	70-130		%Rec	1	12/6/2020 9:17:00 PM	56812

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

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

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **2012249**Date Reported: **12/11/2020****CLIENT:** Souder, Miller & Associates**Client Sample ID:** SW3**Project:** Falcon 32 State 1**Collection Date:** 12/1/2020 1:55:00 PM**Lab ID:** 2012249-003**Matrix:** SOIL**Received Date:** 12/4/2020 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	12/10/2020 7:45:04 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/7/2020 1:33:36 AM	56812
Surr: BFB	101	70-130		%Rec	1	12/7/2020 1:33:36 AM	56812
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2020 1:22:47 PM	56813
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2020 1:22:47 PM	56813
Surr: DNOP	109	30.4-154		%Rec	1	12/8/2020 1:22:47 PM	56813
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/7/2020 1:33:36 AM	56812
Toluene	ND	0.048		mg/Kg	1	12/7/2020 1:33:36 AM	56812
Ethylbenzene	ND	0.048		mg/Kg	1	12/7/2020 1:33:36 AM	56812
Xylenes, Total	ND	0.096		mg/Kg	1	12/7/2020 1:33:36 AM	56812
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	12/7/2020 1:33:36 AM	56812
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/7/2020 1:33:36 AM	56812
Surr: Dibromofluoromethane	99.4	70-130		%Rec	1	12/7/2020 1:33:36 AM	56812
Surr: Toluene-d8	98.0	70-130		%Rec	1	12/7/2020 1:33:36 AM	56812

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

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

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **2012249**Date Reported: **12/11/2020****CLIENT:** Souder, Miller & Associates**Client Sample ID:** SW4**Project:** Falcon 32 State 1**Collection Date:** 12/1/2020 2:00:00 PM**Lab ID:** 2012249-004**Matrix:** SOIL**Received Date:** 12/4/2020 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	12/10/2020 7:57:29 PM	56921
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/7/2020 2:58:57 AM	56812
Surr: BFB	104	70-130		%Rec	1	12/7/2020 2:58:57 AM	56812
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/8/2020 1:32:26 PM	56813
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2020 1:32:26 PM	56813
Surr: DNOP	107	30.4-154		%Rec	1	12/8/2020 1:32:26 PM	56813
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	12/7/2020 2:58:57 AM	56812
Toluene	ND	0.049		mg/Kg	1	12/7/2020 2:58:57 AM	56812
Ethylbenzene	ND	0.049		mg/Kg	1	12/7/2020 2:58:57 AM	56812
Xylenes, Total	ND	0.098		mg/Kg	1	12/7/2020 2:58:57 AM	56812
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	12/7/2020 2:58:57 AM	56812
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	12/7/2020 2:58:57 AM	56812
Surr: Dibromofluoromethane	103	70-130		%Rec	1	12/7/2020 2:58:57 AM	56812
Surr: Toluene-d8	100	70-130		%Rec	1	12/7/2020 2:58:57 AM	56812

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

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

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

WO#: 2012249

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: MB-56921	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56921	RunNo: 73927								
Prep Date: 12/10/2020	Analysis Date: 12/10/2020	SeqNo: 2608089	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56921	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56921	RunNo: 73927								
Prep Date: 12/10/2020	Analysis Date: 12/10/2020	SeqNo: 2608090	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Qualifiers:

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

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

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

WO#: 2012249

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: MB-56810	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56810	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603181 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	30.4	154			

Sample ID: LCS-56810	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56810	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603183 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	5.3		5.000		106	30.4	154			

Sample ID: 2012249-002AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW2	Batch ID: 56813	RunNo: 73877								
Prep Date: 12/5/2020	Analysis Date: 12/8/2020	SeqNo: 2605067 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.7	48.36	0	104	15	184			
Surr: DNOP	5.1		4.836		105	30.4	154			

Sample ID: 2012249-002AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW2	Batch ID: 56813	RunNo: 73877								
Prep Date: 12/5/2020	Analysis Date: 12/8/2020	SeqNo: 2605068 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.5	47.57	0	98.4	15	184	7.10	23.9	
Surr: DNOP	4.6		4.757		96.3	30.4	154	0	0	

Sample ID: LCS-56813	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56813	RunNo: 73877								
Prep Date: 12/5/2020	Analysis Date: 12/8/2020	SeqNo: 2605171 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	120	70	130			
Surr: DNOP	6.3		5.000		127	30.4	154			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012249
11-Dec-20

Client: Souder, Miller & Associates
Project: Falcon 32 State 1

Sample ID: MB-56813	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56813	RunNo: 73877								
Prep Date: 12/5/2020	Analysis Date: 12/8/2020	SeqNo: 2605177	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	30.4	154			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 12

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

WO#: 2012249

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: S73810		RunNo: 73810							
Prep Date:	Analysis Date: 12/5/2020		SeqNo: 2601700		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.48		0.5000		96.6	70	130			

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch ID: S73810		RunNo: 73810							
Prep Date:	Analysis Date: 12/5/2020		SeqNo: 2601701		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.9	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	70	130			

Sample ID: mb-56807	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 56807		RunNo: 73810							
Prep Date: 12/4/2020	Analysis Date: 12/5/2020		SeqNo: 2601713		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	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		113	70	130			
Surr: Toluene-d8	0.49		0.5000		98.9	70	130			

Sample ID: lcs-56807	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 56807		RunNo: 73810							
Prep Date: 12/4/2020	Analysis Date: 12/5/2020		SeqNo: 2601715		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			

Qualifiers:

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

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

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

WO#: 2012249

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: Ics-56807	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56807	RunNo: 73810								
Prep Date: 12/4/2020	Analysis Date: 12/5/2020	SeqNo: 2601715	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.49		0.5000		97.3	70	130			

Sample ID: Ics-56812	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56812	RunNo: 73824								
Prep Date: 12/5/2020	Analysis Date: 12/6/2020	SeqNo: 2602748	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Sample ID: mb-56812	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 56812	RunNo: 73824								
Prep Date: 12/5/2020	Analysis Date: 12/6/2020	SeqNo: 2602749	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	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.1	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.50		0.5000		99.8	70	130			

Sample ID: 2012249-002ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SW2	Batch ID: 56812	RunNo: 73824								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2602771	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9970	0	104	71.1	115			
Toluene	1.1	0.050	0.9970	0	114	79.6	132			
Ethylbenzene	1.1	0.050	0.9970	0	112	83.8	134			
Xylenes, Total	3.6	0.10	2.991	0	119	82.4	132			

Qualifiers:

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

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

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

WO#: 2012249

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: 2012249-002ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SW2	Batch ID: 56812	RunNo: 73824								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2602771	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.51		0.4985		103	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.4985		101	70	130			
Surr: Dibromofluoromethane	0.52		0.4985		105	70	130			
Surr: Toluene-d8	0.50		0.4985		100	70	130			

Sample ID: 2012249-002amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SW2	Batch ID: 56812	RunNo: 73824								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2602772	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9990	0	106	71.1	115	1.70	20	
Toluene	1.1	0.050	0.9990	0	112	79.6	132	1.02	20	
Ethylbenzene	1.1	0.050	0.9990	0	112	83.8	134	0.577	20	
Xylenes, Total	3.5	0.10	2.997	0	117	82.4	132	1.52	20	
Surr: 1,2-Dichloroethane-d4	0.53		0.4995		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4995		101	70	130	0	0	
Surr: Dibromofluoromethane	0.51		0.4995		103	70	130	0	0	
Surr: Toluene-d8	0.50		0.4995		100	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2012249

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: G73810			RunNo: 73810						
Prep Date:	Analysis Date: 12/5/2020			SeqNo: 2601720			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		105	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: G73810			RunNo: 73810						
Prep Date:	Analysis Date: 12/5/2020			SeqNo: 2601721			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		106	70	130			

Sample ID: mb-56807	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 56807			RunNo: 73810						
Prep Date: 12/4/2020	Analysis Date: 12/5/2020			SeqNo: 2601733			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	530		500.0		105	70	130			

Sample ID: lcs-56807	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 56807			RunNo: 73810						
Prep Date: 12/4/2020	Analysis Date: 12/5/2020			SeqNo: 2601734			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.6	70	130			
Surr: BFB	530		500.0		105	70	130			

Sample ID: lcs-56812	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 56812			RunNo: 73824						
Prep Date: 12/5/2020	Analysis Date: 12/6/2020			SeqNo: 2602785			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.1	70	130			
Surr: BFB	520		500.0		103	70	130			

Sample ID: mb-56812	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 56812			RunNo: 73824						
Prep Date: 12/5/2020	Analysis Date: 12/6/2020			SeqNo: 2602786			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		100	70	130			

Qualifiers:

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

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

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

WO#: 2012249

11-Dec-20

Client: Souder, Miller & Associates**Project:** Falcon 32 State 1

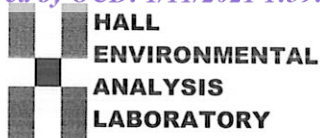
Sample ID: 2012249-003ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SW3	Batch ID: 56812	RunNo: 73824								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2602807	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.83	0	93.6	49.2	122			
Surr: BFB	510		496.5		102	70	130			

Sample ID: 2012249-003amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SW3	Batch ID: 56812	RunNo: 73824								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2602808	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.4	49.2	122	2.74	20	
Surr: BFB	520		500.0		103	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Souder, Miller & Associates

Work Order Number: 2012249

RcptNo: 1

Received By: Sean Livingston

12/4/2020 8:00:00 AM

SL

Completed By: Emily Mocho

12/4/2020 9:49:29 AM

Reviewed By:

EM

12/4/20

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *SL 12/4/20*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				
2	0.2	Good				
3	1.5	Good				

APPENDIX E

PHOTO LOG

30

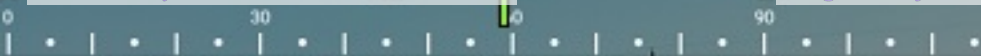
90

60°NE (T) GPS data is unavailable - m



330 0 30 60
● 10°N (T) ● 32.262501, -103.699847 ±1 m ▲ 1091 m





☉ 70°NE (T) ● 32.262516, -103.699974 ±1 m ▲ 1090 m



330

0

30

60

☉ 23°N (T) ● 32.26249, -103.69984 ±3 m ▲ 1088 m



60 90 120 150
101°E (T) 32.262611, -103.699933 ±1 m 1091 m



90 120 150 180

☉ 142°SE (T) ● 32.262634, -103.699864 ±3 m ▲ 1089 m



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 14375

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 14375
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	1/23/2023