

December 31, 2019

#5E27950-BG27

NMOCD District 2 811 S. First St. Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Black River 15 10 State Com X #005H Release (2RP-5655), Eddy County, New Mexico

To Whom it May Concern:

On behalf of Marathon Oil, Permian LLC, 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 Black River 15 10 State Com X #005H site. The site is in Unit P, Section 15, Township 24S, Range 27E, Eddy 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	Black River 15 10 State Com X #005H	Company	Marathon Oil – Permian LLC	
API Number	30-015-44070	Location	32.21063703 -104.17320295	
Incident Number	2RP-5655			
Estimated Date of Release	September 5, 2019	Date Reported to NMOCD	September 9, 2019	
Land Owner	State of New Mexico	Reported To	NMOCD District 2, NMSLO	
Source of Release	Flange connection at header of riser			
Released Volume	7.79 bbls	Released Material	Produced Water	
Recovered Volume	6	Net Release	1.79	
NMOCD Closure Criteria	<50 feet to groundwater			
SMA Response Dates	9/6/2019, 9/20/2019, 11/23/2019-12/17/2019			

Black River 15 10 State Com X #005H Remediation Closure Report (2RP-5655) December 31, 2019

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1.0 Background

On September 9, 2019, a release was discovered at the Black River 15 10 State Com X #005H site due to a flange connection at the header of the riser. Initial response activities were conducted by Marathon Oil, and included source elimination and site stabilization activities, which recovered approximately 6 barrels of fluid. The spill path followed San Mateos' ROW and well as Marathon Oils' ROW. 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 Black River 15 10 State Com X #005H is located approximately five miles west of Malaga, New Mexico on State land at an elevation of approximately 3239 feet above mean sea level (amsl).

Based upon The New Mexico Office of the State Engineer (NMOSE) online water well database, the United States Geological Survey (USGS) online water well data (Appendix B), depth to groundwater in the area is estimated to be less than 50 feet below grade surface (bgs). 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 (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 10/16/2019). The nearest significant watercourse is a canal #3798, located approximately 1300 feet to the southeast. 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 information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization and Remediation Activities

On September 6 and September 20, 2019, SMA personnel arrived on site in response to the release associated with Black River 15 10 State Com X #005H. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area. Soil samples were field screened for chloride using an electrical conductivity (EC) meter.

A total of fourteen sample locations (L1-L9 & SW1-5) were investigated using a hand-auger, to depths up to 3 feet bgs. Sample location L7 represent the areas affected by surficial overspray. A minimum of two samples were collected at each sampling location and field-screened using the method above. A total of sixteen (16) samples were collected for laboratory analysis for total chloride using EPA Method 300.0. Table 3 itemizes the sample results. The release are and initial sample locations are depicted on Figure 3, and excavation depths along with closure samples are depicted on Figure 3A

Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix C).

Between November 23 and December 17, 2019, SMA returned to the site to guide the excavation of contaminated soil. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

Black River 15 10 State Com X #005H Remediation Closure Report (2RP-5655)

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The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on November 20, 2019 that closure samples were expected to be collected in two (2) business days.

The area around initial sample location L1 was excavated to a depth of three (3) feet bgs, and two confirmation samples were collected from the bottom and sidewall (CL1 and CSW7). The area around sample location L2 was excavated to a depth of fifteen (15) feet bgs, and one confirmation sample was collected from the bottom (CL2). The area around initial sample location L3 was excavated to a depth of ten (10) feet bgs, and two confirmation samples were collected from bottom and sidewall (CL3 and SW2). The area around initial sample locations L4, 5 and 6 were excavated to a depth of six and half (6.5) feet bgs, and five (5) confirmation samples were collected from the bottom and sidewalls (CL4, CL5, CL6, CSW3, CSW4). The area around initial sample location L9, 10, 7 was excavated to a depth of half a foot (0.5) feet bgs, and five (5) confirmation samples were collected from the bottom and sidewalls (CL7, CL9, CL10, CSW5, CSW10). The area around initial sample location L11, 12 were excavated to four (4) feet bgs, and four (4) confirmation samples were collected from the bottom and sidewalls (CL11, CL12, CSW4,CSW1). The area around initial sample location L8 was excavated to a depth of one (1) foot bgs, and one confirmation sample was collected from the bottom and sidewall (CL8).

A total of twenty-four (24) 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. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico and Xenco Laboratories in Carlsbad, New Mexico (Appendix D).

Figure 3 shows the extent of the spill area and sample locations. Figure 3A shows the extent of the excavation and closure sample locations. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

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 near Hobbs, NM, an NMOCD permitted disposal facility. Laboratory results indicate that the site has been successfully remediated and closure for 2RP-5655 is requested

4.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure 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 or Shawna Chubbuck at 505-325-7535.

Black River 15 10 State Com X #005H Remediation Closure Report (2RP-5655) December 31, 2019

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Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Scientist Shawna Chubbuck Senior Scientist Black River 15 10 State Com X #005H Remediation Closure Report (2RP-5655) December 31, 2019

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ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map

Figure 3A: Excavation and Closure Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

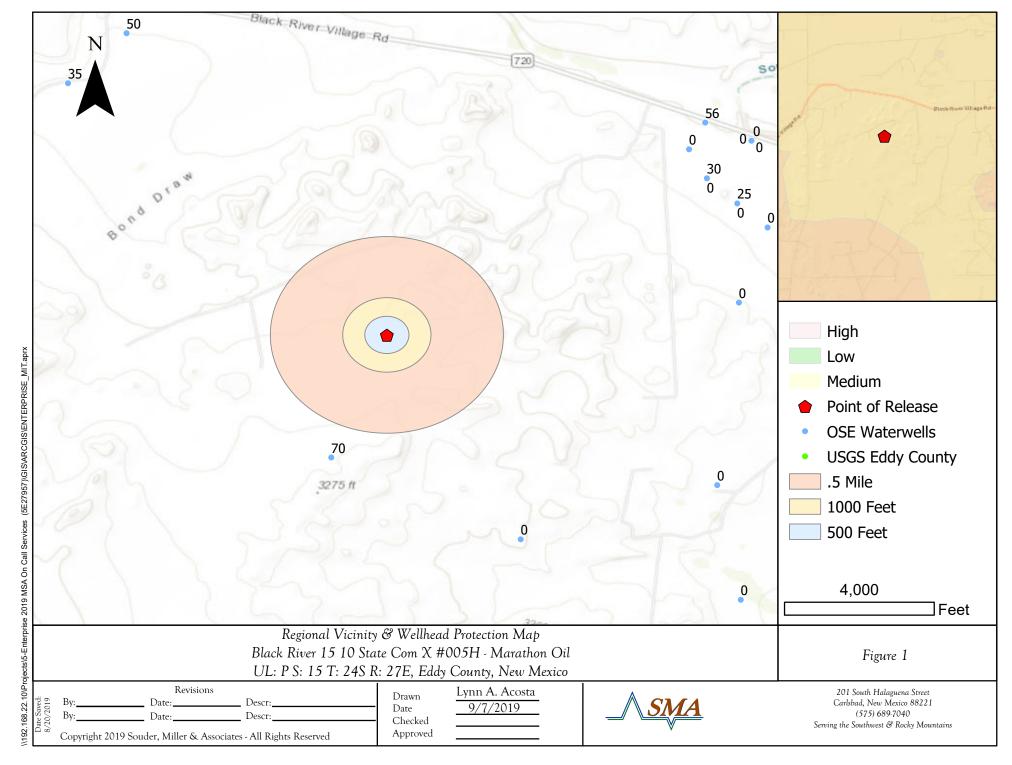
Table 3: Summary of Sample Results

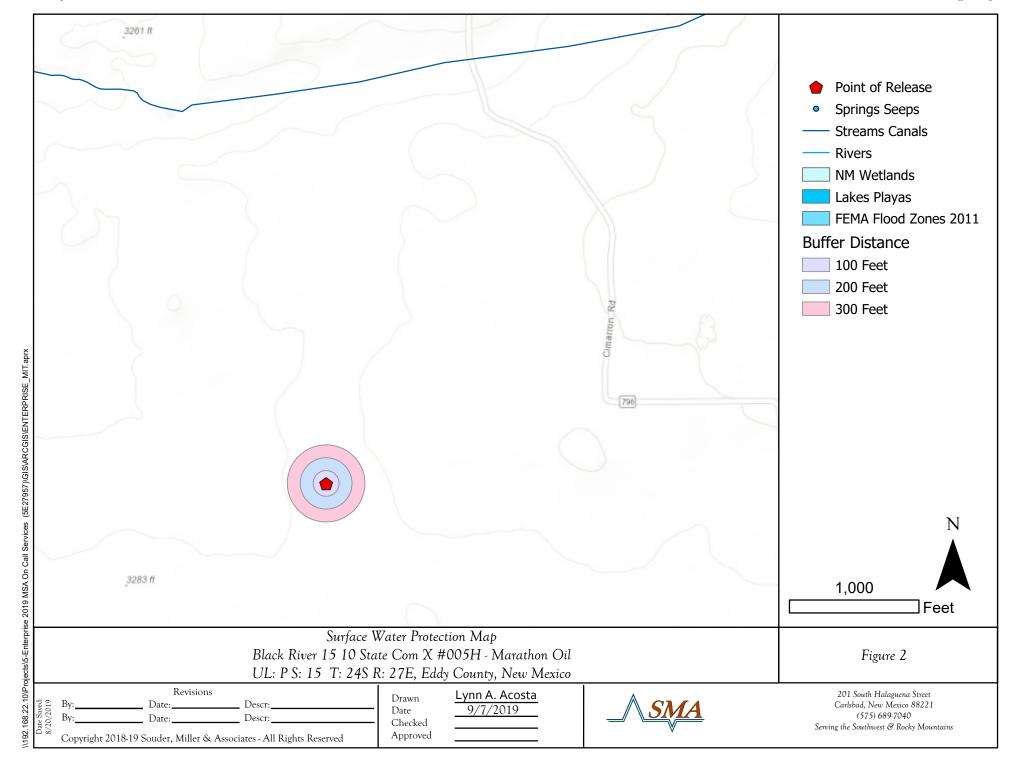
Appendices:

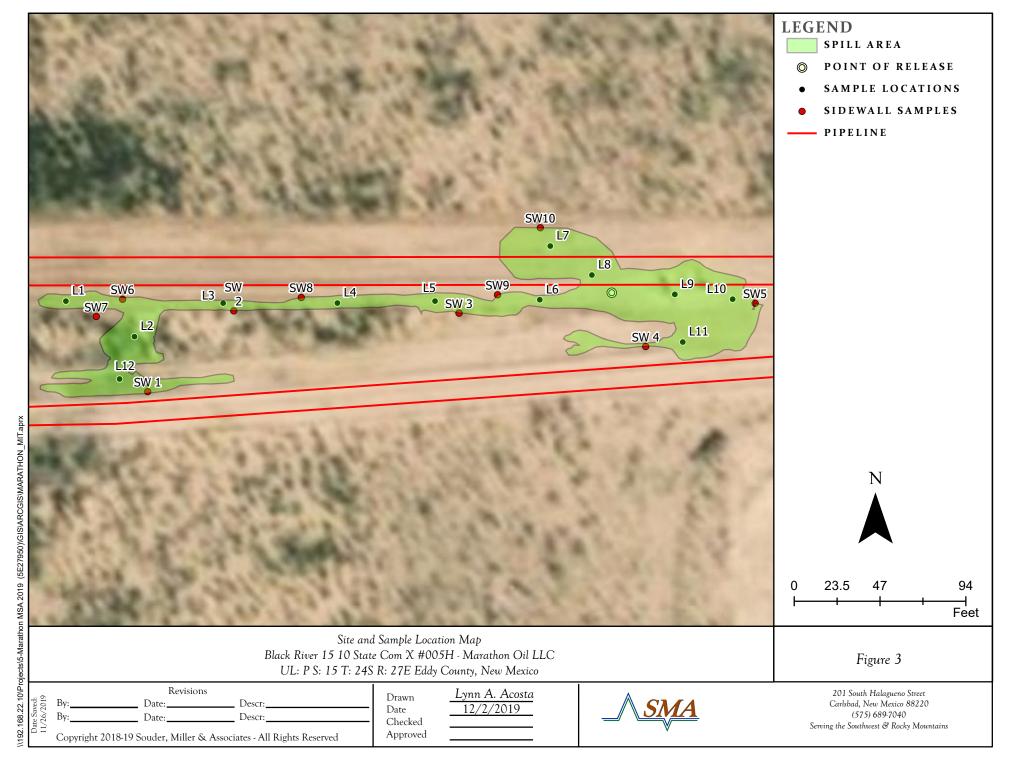
Appendix A: Form C141

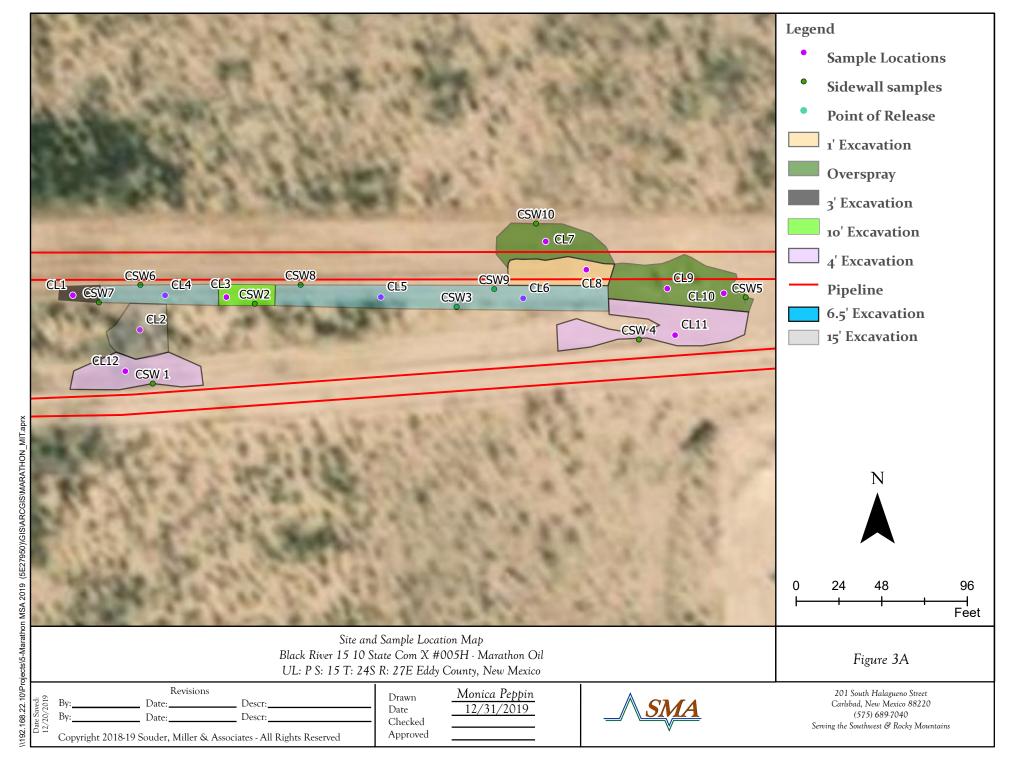
Appendix B: NMOSE Wells Report Appendix C: Field Notes & Photo Log Appendix D: Laboratory Analytical Reports

FIGURES









TABLES

Table 2: NMOCD Closure Criteria

Marathon Oil Permian LLC Black River 15 10 State Com X #5H (2RP-5655)

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	<50	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	5,375	Bond Draw to the West
Hortizontal Distance to Nearest Significant Watercourse (ft)	8,500	Black River

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
	Closu	Closure Criteria (units in mg/kg)				
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	втех	Benzene	
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water yes or no			if ye	s, then		
<300' from continuously flowing watercourse or other significant						
watercourse?	No					
<200' from lakebed, sinkhole or playa lake?]				
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?						
<1000' from fresh water well or spring? N						
Human and Other Areas	T	600	100		50	10
<300' from an occupied permanent residence, school, hospital,						
institution or church?	No					
within incorporated municipal boundaries or within a defined						
municipal fresh water well field? No						
<100' from wetland? No						
within area overlying a subsurface mine	No					
	No (Med					
within an unstable area?	Karst)]				
within a 100-year floodplain?	No					



Table 3: Marathon Oil Permian LLC Summary of Sample Results Black River 15 10 State Com X #5H (2RP-5655)

Sample				\sim D \sim		MADO	Total	\sim l
•	Sample	BTEX	Benzene	GRO	DRO	MRO	TPH	CI-
ID	Date	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCE	O Closure	50	10	10	00		100	600
L1	9/6/2019	-	-	-	-	-	-	10,000
LI	9/20/2019	-	-	-	-	-	-	180
L2	9/6/2019	-	-	-	-	-	-	12,000
L3	9/6/2019	-	-	-	-	-	-	10,000
L4	9/6/2019	-	-	-	-	-	-	10,000
L5	9/6/2019	-	-	-	-	-	-	12,000
L6	9/6/2019	-	-	-	-	-	-	11,000
L7	9/6/2019	-	-	-	-	-	-	5800
L8	9/6/2019	-	-	-	-	-	-	11,000
LO	9/20/2019	-	-	-	-	-	-	1,000
L9	9/6/2019	-	-	-	-	-	-	15,000
SW 1	9/20/2019	-	-	-	-	-	-	62
SW 2	9/20/2019	-	-	-	-	-	-	330
SW 3	9/20/2019	-	-	-	•	•	-	360
SW 4	9/20/2019	-	-	-	•	•	-	150
SW 5	9/20/2019	-	-	-	-	-	-	<60
				ure Sampl	es			
CL1	11/23/2019	<0.225	<0.025	<5.0	<9.8	<49	<63.8	140
CL2	11/24/2019	<0.216	<0.024	<4.8	<9.9	<49	<63.7	130
CL3		<0.211	<0.023	<4.7	<9.5	<47	<61.2	<60
CL4	11/23/2019	<0.225	<0.025	<5.0	<9.3	<46	<60.3	120
CL5		<0.221	<0.025	<4.9	<9.8	<49	<63.7	79
CL6	11/26/2019	<0.213	<0.024	<4.7	<9.3	<47	<61	<60
CL7		<0.207	< 0.023	<4.6	<9.5	<48	<62.1	270
CL8		<0.207	<0.023	<4.6	<9.4	<47	<61	<60
CL9		<0.207	<0.023	<4.6	<9.9	<49	<63.5	<60
CL10	12/2/2019	<0.208	<0.023	<4.6	<9.6	<48	<62.2	270
CL11		<0.216	<0.024	<4.8	<8.9	<45	<58.7	<60
CL12		<0.224	<0.025	<5.0	<9.3	<46	<60.3	<60
CSW1		<0.219	<0.024	<4.9	<9.5	<47	<61.4	<60
CSW2	11/23/2019	<0.216	<0.024	<4.8	<9.4	<47	<61.2	1500
	12/17/2019	-	-	-	-	-	-	<10
	11/26/2019	<0.217	<0.024	<4.8	<8.3	<41	<54.1	<60
CSW4	12/2/2019	<0.21	<0.023	<4.7	<9.3	<47	<61	170
CSW5		<0.225	<0.025	<5.0	<9.0	<45	<59	<60
CSW6	11/23/2019	<0.221	<0.025	<4.9	<9.8	<49	<63.7	1700
	12/17/2019	-	-	-	-	-	-	<10.1
CSW7	11/23/2019	<0.217	<0.024	<4.8	<9.9	<50	<64.7	98
CSW8	. 1,20,2010	<0.222	<0.025	<4.9	<10	<50	<64.9	110
CSW9	11/26/2019	<0.222	<0.025	<4.9	<9.9	<50	<64.8	<60
CSW10	12/2/2019	<0.217	<0.024	<4.8	<9.1	<46	<59.9	320

"--" = Not Analyzed

Excavated

APPENDIX A FORM C141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1928436477
District RP	2RP-5655
Facility ID	
Application ID	pAB1928436018

Release Notification 4O376-190919-C-1410

Responsible Party

			rcsp	01131	ibic i ai i	y		
Responsible Party Marathon Oil Permian LLC				OGRID 37	72098			
Contact Name Isaac Castro			Contact Te	Contact Telephone 575-988-0561				
Contact email icastro@marathonoil.com			Incident #	(assigned by OCD)	NAB1928436477			
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 88220								
			Location	of R	Release So	ource		
Latitude	32.21063	3703			Longitude _	-104.1732029	95	
			(NAD 83 in dec	cimal de	grees to 5 decin	nal places)		
Site Name BL	ACK RIVE	R 15 10 STATE	COM X #005H		Site Type (Oil and gas drill	ing facility	
Date Release	Discovered	9/5/19			API# (if app	olicable) 30-015-4	44070	
Unit Letter	nit Letter Section Township Range Co			Cour	ntv]		
P	15	24S	27E	Edd				
Surface Owner	r: 🔀 State	Federal Ti	Nature and			Release)	
Crude Oil		l(s) Released (Select a		calcula	tions or specific		volumes provided below)	
			,			Volume Recovered (bbls) Volume Recovered (bbls) 6 bbls		
Produced	Water		ed (bbls) <u>7.79 bbls</u>				` /——	
		Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	hlorid	e in the	☐ Yes ☐ No		
Condensa	te	Volume Release				Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units))	Volume/Weig	tht Recovered (provide units)			
Cause of Rele	ease	<u> </u>						
inspection by	the Field O	perator, it was fou	nd that flange cor	nectio	n gave out. A	Approximately 7	tines and San Mateo. Upon immediate 7.79 barrels of produced water was over standing fluids and recovered 6	

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NAB1928436477
District RP	2RP-5655
Facility ID	
Application ID	pAB1928436018

Was this a major release as defined by		onsible party consider this a major release? MAC 19.15.29.7(A) based on volume of material released.
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health an	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed a	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence	remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedia	efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	ment. The acceptance of a C-141 report by the	occ does not relieve the operator of liability should their operations have
		eat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: <u>Isaa</u>	c Castro_	Title: Environmental Professional
Signature:	e Castro	Date:9/19/19
email: icastro@marath	onoil com	Telephone: <u>575-988-0561</u>
eman. <u>leastro(a)maratir</u>	onon.com	1 ciepnone. <u>575-700-0301</u>
OCD Only		
Amalia F	Bustamante	D (10/11/2010
Received by:		Date:10/11/2019

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

Depth to water determination

Photographs including date and GIS information

□ Laboratory data including chain of custody

Boring or excavation logs

☐ Topographic/Aerial maps

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-5655
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?	<50 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☐ Field data ☐ Data table of soil contaminant concentration data 				

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5655
Facility ID	
Application ID	

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.

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: Melodie Sanjari	Title: Environmental Professional		
Signature: Melodie Sanjari	Date: 12/31/2019		
email: msanjari@marathonoil.com	Telephone: 575-988-0561		
OCD Only			
Received by:	Date:		

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5655
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 photomust be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OE	OC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Melodie Sanjari	Title: Environmental Professional
Signature: Melodie Sanjari	Date: 12/31/2019
email: msanjari@marathonoil.com	Telephone: 575-988-0561
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible lor regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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)

water right file.)	closed	a)	(1	quai	rter	s a	re si	nalles	it to la	rgest)	(IV	AD83 UTM IN	meters)	(in reet)	
		POD			_											
POD Number	Code	Sub-	County		Q 16		Sec	Tws	Rna		Х	Υ	Distance	•	•	Water Column
C 01452	Ooud	С	ED	0 4		•		248		5774		3563175*	956		70	25
C 00850		С	ED		2	3	09	248	27E	5755	595	3566223*	2640	108	35	73
C 00821		С	ED		3	2	09	24S	27E	5759	996	3566635*	2795	97	50	47
C 04147 POD1		CUB	ED	4	1	3	24	24S	27E	5801	101	3562969 (3156	35		
<u>C 00364</u>	С	CUB	ED		1	2	09	248	27E	5759	997	3567043*	3171	2270		
<u>C 00347</u>		CUB	ED		1	1	13	248	27E	5800	010	3565479*	3181	60	30	30
C 03147		С	ED	3	3	3	12	24S	27E	5798	385	3565715	3183	140		
C 01366		CUB	ED			4	80	24S	27E	5745	590	3566003*	3196	60	35	25
C 00631		С	ED	3	3	4	80	24S	27E	5742	288	3565701*	3284	50	24	26
C 01943		С	ED			1	13	24S	27E	5802	221	3565275*	3293	30	25	5
C 00516		CUB	ED	1	3	4	80	24S	27E	5742	288	3565901*	3386	105	36	69
C 00516 CLW201016	0	CUB	ED	1	3	4	80	24S	27E	5742	288	3565901* (3386	62		
C 00516 CLW308590	0	CUB	ED	1	3	4	80	24S	27E	5742	288	3565901*	3386	105	36	69
C 00516 S		CUB	ED	1	3	4	80	24S	27E	5742	288	3565901	3386	50	17	33
C 03260 POD1		С	ED	3	3	3	12	24S	27E	5799	995	3565935 (3392	80	56	24
C 00342	С	CUB	ED		4	1	13	24S	27E	5804	132	3565080*	3429	2565		
C 03260 POD2	0	С	ED	1	3	3	12	24S	27E	5801	100	3565984 (3507	80	56	24
C 03489 POD1		CUB	ED	2	4	3	80	24S	27E	5741	153	3565939 (3521	200		
C 00683		С	ED		4	3	80	248	27E	5739	986	3565796* (3594	50	17	33
<u>C 01187</u>		С	ED		4	3	80	24S	27E	5739	986	3565796* (3594	108	17	91
<u>C 03145</u>		С	ED	3	1	4	13	248	27E	5807	749	3564579* (3633	103	40	63
C 00516 POD10		CUB	ED	3	4	3	80	24S	27E	5738	375	3565722	3659	160	45	115
C 03490 POD1		CUB	ED	3	4	3	80	24S	27E	5738	312	3565709 (3709	140	23	117
C 00516 POD6		CUB	ED	1	4	3	80	248	27E	5738	385	3565895*	3730	78	17	61
C 01721		С	ED			1	25	24S	27E	5802	271	3562033* (3737	170		
C 01841		С	ED			1	29	24S	27E	5738	306	3561953* (3966	150		
*LITM leastion was derived	from DI S		Halm													

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a

(R=POD has been replaced, O=orphaned,

C=the file is

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

water right file.)

closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

34 feet

POD Sub-QQQ Depth Depth Water Well Water Column **POD Number** Code basin County 64 16 4 Sec Tws Rng X **Distance** 4 2 3 12 24S 27E 3566195* 27 C 02976 580519 3974 57 30

Average Depth to Water:

Minimum Depth: 17 feet

Maximum Depth: 70 feet

Record Count: 27

UTMNAD83 Radius Search (in meters):

Radius: 4000 Easting (X): 577148.66 Northing (Y): 3564087.87

APPENDIX C FIELD NOTES & PHOTO LOG

Date: Black Name: Black Name: Black Name: Soil Type: Depth (BGS) Collection Time: EC (ppm) Temp (°C) PID Reading PF			MA		d Screen	ing		
Sample Name: Soil Type: Depth (BGS) Collection Time: EC (ppm) Temp (°C) PID Reading PF L1 Sandy 1694 0.5 1145 7.79 21.7 — — L2 0.5 1147 8.58 20.9 L4 1152 7.38 20.7 L5 1154 6.87 20.3 L6 1156 6.29 20.0 L7 1156 5.29 20.0 L8 126 6.49 19.8							Dat	e:
Sample Name: Soil Type: Depth (BGS) Collection Time: EC (ppm) Temp (°C) PID Reading PF L1 Sandy (sam 0.5 1145 7.79 21.7	Black Kine	(#2	5,6			T	9.6.18	
13	Sample Name:		Depth (BGS)		EC (ppm)	Temp (°C)		PF
1.3 1149 6.85 20.9 14 1152 7.38 20.7 15 1154 6.87 20.3 16 1156 6.29 20.0 1158 3.75 20.0 128 1200 6.49 19.8	LI		0.5	1145	7.79	21.7		
1.3 LY 1152 1152 1154 1154 1154 1156 115	12		0.5	1147	8.58			
1152 7.38 20.7 159 6.87 20.3 16 1156 6.29 20.0 17 1158 3.75 20.0 18 1200 6.419 19.8		ļ		1148				
16 1156 6.29 20.0 17 1158 3.75 20.0 1200 6.49 19.8				1152	7.38			
156 6.29 20.0 17 1158 3.75 20.0 18 1200 6.49 19.8				1154	6.87	30.3		
L8 1200 6.49 19.8					6.29	20.0		
19	_							
						19.8		
	Li			1202	8,52	20.0		
			+					
, , , , , , , , , , , , , , , , , , ,								

		MA	4 Field	d Screen	ing		<u> </u>
	Lo	cation	Name:			Da	te:
Black) iner	1.5 1	1 Stete	Com		9-\$00	5-14
Sample Name:	Soil Type:	Depth (BGS)	Collection	EC (ppm)	Temp (°C)	PID Reading	
12-1	Sand	١	8:15	6.85	27.1		
L2-\$3	Calient	3	8:30	5.60	27.3		
13	1/	.3	8:40	7.54	25.7		
14	Gan d	3	8 50	6.96	75.7		
1-5	11	3	8 55	5.65	22.2		
<u></u>	Sand	3 .	9:60	6.10	27.4		
<u> </u>	calien	1,5	9:10	0.52	27.3		
19	Sand	3	4:20		27.3		
17	colun	2.5	9:30	2.35	27.2		
16	Caliche	2	4:33	4.55	74,7		-
361	Sand		9:35	6.13	77.9		
542	Sand		9:37	0.30	74.9		
543	Sund		9:40	0.27	29.1		
5W4	Sund		_	0.28	28.1		
5W5	Sund		9.55	0.12	29.1		

		MA	1 Field	Screen	ing		
	Loc	cation	Name:			Da	te:
Black Rive	V # 15	10 5	state con	1		10-25-	-19
Sample Name:	Soil Type:	Depth (BGS)	Collection	EĆ (ppm)	Temp (°C)	PID Reading	PF
BG-10.5-	Sund	.5	2:30	42.5-		_	
1361-1	Sand	1	2:35	25-	_	_	-
61-1.6	Sund	1.5	2:40	30		~	
BG1-2	Sand	2	2:45	15-		_	
BG1-2.5-	Sund/colicho		2:50	12		_	
BG-13	Sand linked	3	2:55	10		_	_
BG1- 3.5- BG1- 4	Liking		3:00	22.5		_	
B61- 4	Calich	4	3:10	15			-
		$-\downarrow$					

		MA	4 Field	Screen	ing		4: 3					
	Loc	cation	Name:			Da	te:					
Black Pu	Black Puter State Com # 505 H											
Sample Name:	Soil Type:	Depth (BGS)	Collection	EC (ppm)	Temp (°C)	PID Reading	PF					
12-10'	Sandal	10'	15-: 22	5.47	15:5-	6	-0-					
12-13'	Sundlelay	13'	15:48	3.68	14.1	6	<u></u>					
BG-6'	Coldro Fodos Sund, Colch	.61	16:5-3	0.12	13.4	-6-						
BG-10'	11 11	10'	16:56	0.31	13.4	-6-	-6					
BG-13'		13'	17:63	0.55	13.2	6	-					
					-							
												
A 21 2												
												
		-	<u>i_</u>									
		_										
		0.00										

			MA		Screen	ing		
		Lo	cation	Name:			Dat	te:
	Black Rive	C 15 Sla	le co	m #005	H		11/23/19	
	Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF
L	41-21	Sand	2 '	910	3.57	11.4		
<u> </u>	SW 7	Sand/calabe	0-31	918	0.51	11.4		
	L1-4'	Sand/ Caliche	4'	914	0.22	11.4	_	
	Sw7	Sand/ Calucha	6-4'	935	0.11	11.5		
*	L2-4'	Sand/column Sand	4'	1001	6.06	12.0		
*	Sw2	Sand/ Calicho Sand, Clavi	0-10'	113	6.82	15.0		
*	L3-10'		16'	1045	0.11	15.1		
*	64-6.5	Sand/ Calich Sand/caliche	6.5'	249	6.23	15.4		
*	L5 -6.5	Sandillay	6.5'	506	0.22	11.7		
*	SW8 SW6	Sand, clay	0-10	630	0.26	12.3		
*	3006	<u>Latieti</u>	0-9'	922	0.32	11.7		
_								

		MA	1 Field	Screen	ing							
	Loc	cation	Name:			Da	te:					
Black Priver	Black Piver 15 Slate com x 4005H											
Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF					
L2-6.5'	Sand, column		850	5.83	12.3							
L2-85'		8.5	920	3.48	12.0	_						
L2-13'	Gard, rocke Calibe	13	438	7.28	12.4							
*6 2 - 15-1	Sandirock Caliba Sandirock Caliba Sand, rock Caliba Soud caliba	15"	950	0.38	12.8							
SWI	Callas	0-15'	10 8015	4.27	17.8	_						
* SW 1	Sandialeh	0-15	1030	0.019	17.8							
	+											
		_										
			+									
	10	H										

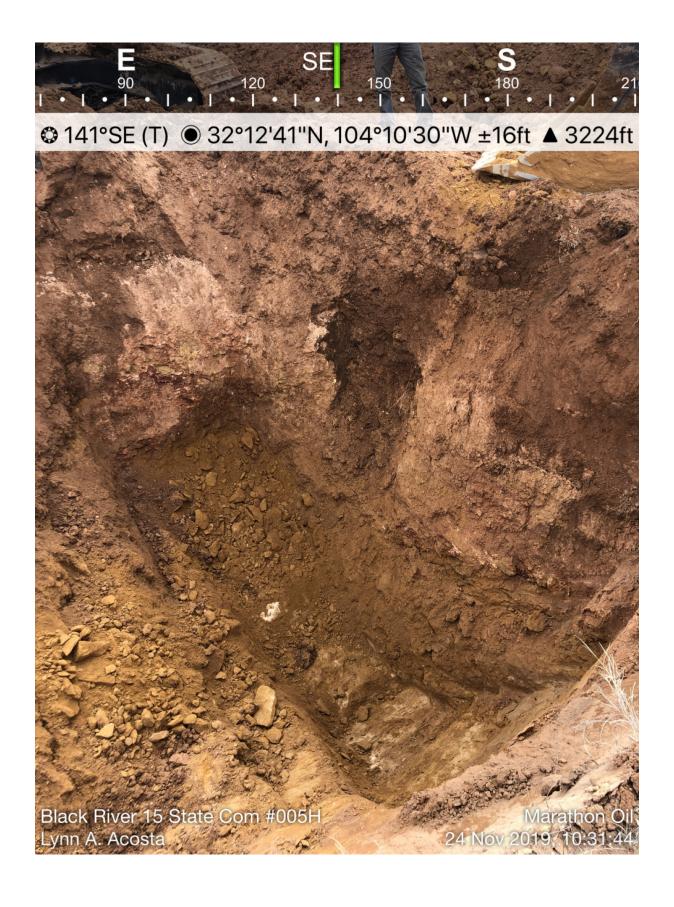
		MA	1 Field	l Screen	ing		
	Lo	cation	Name:			Date	e:
Black River	11/26/19						
Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF
CSW3	Scord Calicha	0-6.5	8:28	0.03	20.6		
C SW9 CL6	Callabi	1286.1	8:54	0.05	20.6		-
CL 6	Sand	6.5	9:20	6.06	20.6		
	-						
1							
	4. 22.						

		MA	1 Field	l Screen	ing		
			Name:			Dat	e:
Black River	11/27/2018	Į					
Sample Name:	Soil Type:	(BGS)	Collection	EC (ppm)	Temp (°C)	PID Reading	PF
* CC 7.0.5' * SW 16	Sand	1'	9:48	6.45	12.0		
* (67.6.51	Sand Calick Sand	0.5"	9:52	0.33			
3 70	Surd	-	958	6.38	8.0		
L14 223'	<u> </u>	2					
							

		MA	4 Field	Screen	ing		70				
	Lo	cation	Name:			Dat	e:				
Black Rvier	Black River 1510state com v #205 H										
Sample Name:	Soil Type:	Depth (BGS)	Collection	EC (ppm)	Temp (°C)	12-2- PID Reading	PF				
CL 8	Sand	1'	948	0.39	12.0						
CL7	Sand	-0.5	9:52	0.33							
SW 10	Sand	. 0.5	9.88	0.38	12.0						
CL 142	Sand	0-4	10:02	0.34	12.0						
CL 9	4 11	0.5	16:07	0.32	140						
SW S-		0-0.5	1010	0.34	12.1						
CLII	"Sond"	41	1018	0.28	12.0						
Sw 1	a //	0-41	1030	0.08	12.8		-				
Sw 4	// 11	4-47	1045	009	12.9						
CL 10		0.5	1008	0.012	12,1						
	+										
		70 - J									

Location Name:						<u> </u>	
						Date:	
Black River 15 10 State Com X # 005-H						12117/19	
Sample Name:	Soil Type:	Depth (BGS)	Collection	EC (ppm)	Temp (°C)	PID Reading	PF
CSW Z	Sundlaha		2:01	0.18	18.1		
CSW 6	Sandlalon		2:08	0.16	18.0		
			-				
		_					

















APPENDIX D LABORATORY ANALYTICAL REPORTS



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

September 18, 2019

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

FAX:

RE: Black River 5H OrderNo.: 1909435

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/10/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-001

Client Sample ID: L1

Collection Date: 9/6/2019 11:45:00 AM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Qu	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: CJS
Chloride	10000	600	mg/Kg	200 9/15/2019 8:56:28 PM	I 47490

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-002

Client Sample ID: L2

Collection Date: 9/6/2019 11:47:00 AM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Qua	Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: CJS
Chloride	12000	600	mg/Kg	200 9/15/2019 9:08:52 PM	1 47490

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-003

Client Sample ID: L3

Collection Date: 9/6/2019 11:49:00 AM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	10000	600	mg/Kg	200 9/17/2019 4:39:37 PM	1 47490

Matrix: SOIL

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

Qualifiers:

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

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

Page 3 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-004

Client Sample ID: L4

Collection Date: 9/6/2019 11:52:00 AM **Received Date:** 9/10/2019 9:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 Analyst: MRA

 Chloride
 10000
 600
 mg/Kg
 200
 9/17/2019 4:52:02 PM
 47490

Matrix: SOIL

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

Qualifiers:

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

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

Page 4 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-005

Client Sample ID: L5

Collection Date: 9/6/2019 11:54:00 AM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	12000	600	mg/Kg	200 9/17/2019 5:29:15 PM	Л 47490

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-006

Client Sample ID: L6

Collection Date: 9/6/2019 11:56:00 AM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	11000	600	mg/Kg	200 9/17/2019 5:41:40 PN	Л 47490

Matrix: SOIL

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

Qualifiers:

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

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

Page 6 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-007

Client Sample ID: L7

Collection Date: 9/6/2019 11:58:00 AM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	5800	300	mg/Kg	100 9/17/2019 5:54:04 PM	A 47490

Matrix: SOIL

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

Qualifiers:

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

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

Page 7 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-008

Client Sample ID: L8

Collection Date: 9/6/2019 12:00:00 PM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Qu	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: MRA
Chloride	11000	600	mg/Kg	200 9/17/2019 6:06:29 PM	47490

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 10

Lab Order 1909435

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909435-009

Client Sample ID: L9

Collection Date: 9/6/2019 12:02:00 PM

Received Date: 9/10/2019 9:05:00 AM

Analyses	Result	RL Qu	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	15000	600	mg/Kg	200 9/17/2019 6:18:53 PM	1 47490

Matrix: SOIL

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

Qualifiers:

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

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

Page 9 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1909435 18-Sep-19

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: MB-47490

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 47490

RunNo: 62939

Prep Date: 9/15/2019

Analysis Date: 9/15/2019

SeqNo: 2144905

Units: mg/Kg

RPDLimit

WO#:

Qual

Analyte Chloride

Result ND PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

%RPD

1.5

Sample ID: LCS-47490

Prep Date: 9/15/2019

SampType: Ics

Batch ID: 47490

Analysis Date: 9/15/2019

RunNo: 62939

SeqNo: 2144906

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

RPDLimit Qual

Analyte

Client ID: LCSS

15.00

0

90

1.5

95.4

HighLimit 110

Chloride

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range

Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Num	per: 1909435		RcptNo: 1
Received By:	Yazmine Garduno	9/10/2019 9:05:00 /	AM	Afaquin Wander	
Completed By:	Yazmine Garduno	9/10/2019 12:59:03	РМ	Abymine lighthati	
Reviewed By:	DAD 9/10/19			ų v	
Chain of Cus	stody				
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
Log In				_	
3. Was an atten	npt made to cool the samp	les?	Yes 🗸	No 🗌	NA 🗆
4. Were all sam	ples received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗔
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient san	nple volume for indicated te	est(s)?	Yes 🗸	No 🗆	
7. Are samples	(except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌	
8. Was preserva	ative added to bottles?		Yes 🗌	No 🗹	NA \square
9. VOA vials hav	ve zero headspace?		Yes	No 🗆 I	No VOA Vials 🗹
10, Were any sai	mple containers received b	roken?	Yes	No 🗹	# of preserved
	ork match bottle labels? ancies on chain of custody)	Yes 🗹		bottles checked for pH: (<2 or >12 unless noted)
	correctly identified on Chair		Yes 🗸	No 🗆	Adjusted?
	t analyses were requested		Yes 🗸	No 🗆	
	ing times able to be met? ustomer for authorization.)		Yes 🗹	No 🗆	Checked by: YO GIV
	ling (if applicable)				
	otified of all discrepancies v	vith this order?	Yes	No 🗌	NA 🗹
Person	Notified:	Date			
By Who	om:	Via:	eMail F	Phone 🗌 Fax 🛭	In Person
Regard	ling:				
Client I	nstructions:				
16. Additional re	marks:				
17. <u>Cooler Info</u>	rmation				
Cooler No		Seal Intact Seal No	Seal Date	Signed By	
1	3.9 Good			WEEVER TO CHEEVE THE THE THE THE THE THE THE THE THE TH	
2	5.8 Good		en e	A	

Chain-of-Custody Record	Turn-Around Time:	INTERNATIONAL TAR
Client: SMA- Corts bad	□ Standard © Rush 5 day turn	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address:	Black River 5H	4901 Hawkins NE - Albuquerque, NM 87109
		Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#:	Project Manager:	†O (O
QA/QC Package:		S'B: SW S , ₄ (
☐ Standard ☐ Level 4 (Full Validation)	Lynn Acosts) OS
Accreditation: Az Compliance	Sambler: CAA	7 D V D D V V D D V V D D V V D D V V D D V D D V D D V D D V D D D V D D D V D
(be)	D'h Sie	GROS pd 50 10 of tals tals
	(including CF): [0.5	15D(letho y 83 3 Me 3r, <i>N</i>
i		TEX / PH:80 DB (N AHs b 270 (S 270 (S 270 (S
We water Sample Name	1 ype and # 1 ype 1 ype and # 1 ype and # 1 ype	T 88
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87	-003	***
h7	-007	×
1154 65	300-	***
7	<i>^</i> 00 <i>-</i>	***
. 7	<i>₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩</i>	×
1300 68	500-	X
1 1303 1	100-	×
	,	
Date: Time: Relinquished by:	Wia: Date Time	Remarks: Marathron Oil
Date: Time: Relinquished W:	Received by Via: 1 / Date Time Of 10 /	
If necessary, sarkples submitted to Hall Environmental may be si	ubcontracted to other accredited laboratories. This serves as notice of this	If the cessary, sarkples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

September 26, 2019

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX:

RE: Black River 5H OrderNo.: 1909D42

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/24/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/26/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909D42-001

Client Sample ID: L1

Collection Date: 9/20/2019 9:00:00 AM

Received Date: 9/24/2019 9:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	180	60	ma/Ka	20	9/25/2019 1:51:04 PM	47714

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 8

Lab Order **1909D42**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/26/2019

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909D42-002

Matrix: SOIL

Collection Date: 9/20/2019 9:10:00 AM Received Date: 9/24/2019 9:20:00 AM

Client Sample ID: L8

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	1000	60	mg/Kg	20	9/25/2019 2:28:17 PM	47714

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

Qualifiers:

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

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

Page 2 of 8

Date Reported: 9/26/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909D42-003

Client Sample ID: SW1

Collection Date: 9/20/2019 9:35:00 AM

Received Date: 9/24/2019 9:20:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	62	60	mg/Kg	20	9/25/2019 2:40:41 PM	1 47714

Matrix: SOIL

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

Qualifiers:

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

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

Page 3 of 8

Date Reported: 9/26/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Black River 5H

Lab ID: 1909D42-004

Project:

Client Sample ID: SW2

Collection Date: 9/20/2019 9:37:00 AM

Received Date: 9/24/2019 9:20:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	330	60	mg/Kg	20	9/25/2019 2:53:06 PM	1 47714

Matrix: SOIL

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

Qualifiers:

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

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

Page 4 of 8

Date Reported: 9/26/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909D42-005

Client Sample ID: SW3

Collection Date: 9/20/2019 9:40:00 AM

Received Date: 9/24/2019 9:20:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	360	61	mg/Kg	20	9/25/2019 3:05:31 PM	47714

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 8

Lab Order **1909D42**Date Reported: **9/26/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 Black River 5H
 Collection Date: 9/20/2019 9:45:00 AM

 Lab ID:
 1909D42-006
 Matrix: SOIL
 Received Date: 9/24/2019 9:20:00 AM

 Analyses
 Result
 RL Qual Units
 DF Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 The properties of the properti

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

Qualifiers:

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

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

Page 6 of 8

Date Reported: 9/26/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1909D42-007

Client Sample ID: SW5

Collection Date: 9/20/2019 9:55:00 AM

Received Date: 9/24/2019 9:20:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Ar	alyst: MRA
Chloride	ND	60	ma/Ka	20 9/25/2019 3:30:20	PM 47714

Matrix: SOIL

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

Qualifiers:

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

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

Page 7 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1909D42 26-Sep-19

Client:

Souder, Miller & Associates

Result

Project:

Black River 5H

Sample ID: MB-47714

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 47714

RunNo: 63185

Prep Date: 9/25/2019

Analysis Date: 9/25/2019

SeqNo: 2157006

Analyte

PQL

Units: mg/Kg

%RPD

HighLimit

RPDLimit

WO#:

Qual

Chloride

ND 1.5

Sample ID: LCS-47714

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 47714

RunNo: 63185

Units: mg/Kg

Prep Date: 9/25/2019

Analysis Date: 9/25/2019

SeqNo: 2157008

%RPD **RPDLimit** Qual

Analyte

SPK value SPK Ref Val %REC LowLimit

96.1

HighLimit

15.00

Chloride

0

SPK value SPK Ref Val %REC LowLimit

90

1.5

110

Qualifiers:

Value exceeds Maximum Contaminant Level

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Numb	per: 1909D42		RcptNo: 1	
Received By: Leah Baca	9/24/2019 9:20:00 A	AM .	Last Baco		
Completed By: Desiree Dominguez	9/24/2019 2:34:44 F	РМ	TPS		
Reviewed By: 16 9/24/)4					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samples'		Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) prope	ly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗆	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broken	en?	Yes	No 🗸	# of processed	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	# of preserved bottles checked for pH:	2 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗸	No 🗌	Adjusted?	z amees netea)
13. Is it clear what analyses were requested?	Company of the Compan	Yes 🗸	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗆	Checked by: D	chille
Special Handling (if applicable)					7/24/17
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗸	
Person Notified:	Date:	T			
By Whom:	Via:		hone Fax	☐ In Person	
Regarding:		AS DESCRIPTION OF THE PARTY OF	The section of the se	NA VARANCIA MANAGEMENTA (MINISTRA PROPERTY AND	
Client Instructions:		The residence of the second se		ATTRACTOR ACTION OF THE OTHER PROPERTY OF THE OTHER PROPERTY ASSESSMENT	
16. Additional remarks:					
17. Cooler Information					
the state of the s	eal Intact Seal No	Seal Date	Signed By		

S	hain	of-C	Chain-of-Custody Record	Turn-Around Time:	Time:			:					
Client:	S	1 p- (SMA- Culsbad	□ Standard	Z Rush S	5 day turn		Ì	A	SIS	Y	HALL ENVIKONMENTAL ANALYSTS LABORATORY	۲ ۲
11				Project Name:				*	www.hallenvironmental.com	nvironn	nental.	Com	
Mailing	Mailing Address:	12		Black	River #	# 57	4901	4901 Hawkins NE		anbnqly	rque,	Albuquerque, NM 87109	
2			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		3.4		Tel	Tel. 505-345-3975		Fax	505-34	Fax 505-345-4107	
Phone #:	#:				to the distribution of the second				An	Analysis Request	Seque	st	
email or Fax#:	r Fax#:			Project Manager:	iger:	Service of the servic			0.	†O	(‡4	(211	
QA/QC Packa □ Standard	QA/QC Package: □ Standard	100	☐ Level 4 (Full Validation)	1 ymn 1	J. Acosta		S08) e'i AM \ O;			0 '70 1	0340/10	əsqA\tı	
Accreditation:	tation:	□ Az C	☐ Az Compliance	Sampler:	LAA		AQ \	(1.4		405°		1000	
□ NELAC	AC	□ Other		On Ice:	⊈ Yes	□ No	OΣ	b09	S	1 '8			
☐ EDD (Type)	(Type)			# of Coolers: (1)	(<i>f</i>)		(GF	; po	etal				
				Cooler Temp(including CF):	(including CF): るり	- 5,2 = 3,2 (°C)	190	leth	M 8				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.		M) BDB R SHA9	В АЯЭЯ	8560 (V	S) 07S8		
4/20/14	900	Sail	7	704		-001			7				
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	437		Sw2	Section 1		h00 -			X	- 1			
	946		Sw3			-005			X				
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Date: Time: Re 9/2 / 9/2	Time:	≡ /.	nquished by:	Received by:	Via: Courie	Date Time							
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 05, 2019

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

FAX

RE: Black River 5H OrderNo.: 1911B78

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/26/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1911B78-001

Client Sample ID: CL1-3'

Collection Date: 11/23/2019 9:14:00 AM **Received Date:** 11/26/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	140	60	mg/Kg	20	12/3/2019 3:44:41 PM	49115
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/27/2019 6:33:10 PM	49026
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/27/2019 6:33:10 PM	49026
Surr: DNOP	90.7	70-130	%Rec	1	11/27/2019 6:33:10 PM	49026
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/28/2019 2:18:15 AM	49037
Surr: BFB	105	77.4-118	%Rec	1	11/28/2019 2:18:15 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	11/28/2019 2:18:15 AM	49037
Toluene	ND	0.050	mg/Kg	1	11/28/2019 2:18:15 AM	49037
Ethylbenzene	ND	0.050	mg/Kg	1	11/28/2019 2:18:15 AM	49037
Xylenes, Total	ND	0.10	mg/Kg	1	11/28/2019 2:18:15 AM	49037
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	11/28/2019 2:18:15 AM	49037

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 14

Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CL3-10'

Project: Black River 5H
 Collection Date: 11/23/2019 1:45:00 PM

 Lab ID: 1911B78-002
 Matrix: SOIL
 Received Date: 11/26/2019 9:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	12/3/2019 3:57:02 PM	49115
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	11/27/2019 6:42:13 PM	49026
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/27/2019 6:42:13 PM	49026
Surr: DNOP	89.9	70-130	%Rec	1	11/27/2019 6:42:13 PM	49026
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/28/2019 2:41:21 AM	49037
Surr: BFB	99.3	77.4-118	%Rec	1	11/28/2019 2:41:21 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	11/28/2019 2:41:21 AM	49037
Toluene	ND	0.047	mg/Kg	1	11/28/2019 2:41:21 AM	49037
Ethylbenzene	ND	0.047	mg/Kg	1	11/28/2019 2:41:21 AM	49037
Xylenes, Total	ND	0.094	mg/Kg	1	11/28/2019 2:41:21 AM	49037
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	11/28/2019 2:41:21 AM	49037

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

Qualifiers:

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

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

Page 2 of 14

Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CL4-6.5'

 Project:
 Black River 5H
 Collection Date: 11/23/2019 4:20:00 PM

 Lab ID:
 1911B78-003
 Matrix: SOIL
 Received Date: 11/26/2019 9:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	120	60	mg/Kg	20	12/3/2019 4:09:23 PM	49115
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/27/2019 6:51:15 PM	49026
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/27/2019 6:51:15 PM	49026
Surr: DNOP	118	70-130	%Rec	1	11/27/2019 6:51:15 PM	49026
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/28/2019 3:04:24 AM	49037
Surr: BFB	98.3	77.4-118	%Rec	1	11/28/2019 3:04:24 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	11/28/2019 3:04:24 AM	49037
Toluene	ND	0.050	mg/Kg	1	11/28/2019 3:04:24 AM	49037
Ethylbenzene	ND	0.050	mg/Kg	1	11/28/2019 3:04:24 AM	49037
Xylenes, Total	ND	0.10	mg/Kg	1	11/28/2019 3:04:24 AM	49037
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	11/28/2019 3:04:24 AM	49037

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

Qualifiers:

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

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

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Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CL5-6.5'

 Project:
 Black River 5H
 Collection Date: 11/23/2019 5:06:00 PM

 Lab ID:
 1911B78-004
 Matrix: SOIL
 Received Date: 11/26/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	79	60	mg/Kg	20	12/3/2019 4:21:43 PM	49115
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/27/2019 7:00:15 PM	49026
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/27/2019 7:00:15 PM	49026
Surr: DNOP	84.6	70-130	%Rec	1	11/27/2019 7:00:15 PM	49026
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/28/2019 3:27:27 AM	49037
Surr: BFB	97.7	77.4-118	%Rec	1	11/28/2019 3:27:27 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	11/28/2019 3:27:27 AM	49037
Toluene	ND	0.049	mg/Kg	1	11/28/2019 3:27:27 AM	49037
Ethylbenzene	ND	0.049	mg/Kg	1	11/28/2019 3:27:27 AM	49037
Xylenes, Total	ND	0.098	mg/Kg	1	11/28/2019 3:27:27 AM	49037
Surr: 4-Bromofluorobenzene	94.7	80-120	%Rec	1	11/28/2019 3:27:27 AM	49037

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

Qualifiers:

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

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

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Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Black River 5H

Lab ID: 1911B78-005

Project:

Client Sample ID: CSW2

Collection Date: 11/23/2019 1:13:00 PM **Received Date:** 11/26/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	1500	60	mg/Kg	20	12/4/2019 1:59:14 PM	49141
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/27/2019 7:09:13 PM	49026
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/27/2019 7:09:13 PM	49026
Surr: DNOP	96.4	70-130	%Rec	1	11/27/2019 7:09:13 PM	49026
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/28/2019 3:50:31 AM	49037
Surr: BFB	103	77.4-118	%Rec	1	11/28/2019 3:50:31 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/28/2019 3:50:31 AM	49037
Toluene	ND	0.048	mg/Kg	1	11/28/2019 3:50:31 AM	49037
Ethylbenzene	ND	0.048	mg/Kg	1	11/28/2019 3:50:31 AM	49037
Xylenes, Total	ND	0.096	mg/Kg	1	11/28/2019 3:50:31 AM	49037
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/28/2019 3:50:31 AM	49037

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1911B78-006

Matrix: SOIL

Collection Date: 11/23/2019 9:22:00 AM Received Date: 11/26/2019 9:00:00 AM

Client Sample ID: CSW6

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	1700	60	mg/Kg	20	12/4/2019 2:36:27 PM	49141
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/2/2019 9:34:09 AM	49056
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/2/2019 9:34:09 AM	49056
Surr: DNOP	90.6	70-130	%Rec	1	12/2/2019 9:34:09 AM	49056
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/28/2019 4:13:30 AM	49037
Surr: BFB	98.2	77.4-118	%Rec	1	11/28/2019 4:13:30 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	11/28/2019 4:13:30 AM	49037
Toluene	ND	0.049	mg/Kg	1	11/28/2019 4:13:30 AM	49037
Ethylbenzene	ND	0.049	mg/Kg	1	11/28/2019 4:13:30 AM	49037
Xylenes, Total	ND	0.098	mg/Kg	1	11/28/2019 4:13:30 AM	49037
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	1	11/28/2019 4:13:30 AM	49037

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

Qualifiers:

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

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

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Analytical Report
Lab Order 1911B78

Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1911B78-007

Client Sample ID: CSW7

Collection Date: 11/23/2019 9:18:00 AM

Received Date: 11/26/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	98	60	mg/Kg	20	12/4/2019 2:48:52 PM	49141
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/2/2019 10:01:21 AM	49056
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/2/2019 10:01:21 AM	49056
Surr: DNOP	77.8	70-130	%Rec	1	12/2/2019 10:01:21 AM	l 49056
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/28/2019 5:22:34 AM	49037
Surr: BFB	96.4	77.4-118	%Rec	1	11/28/2019 5:22:34 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/28/2019 5:22:34 AM	49037
Toluene	ND	0.048	mg/Kg	1	11/28/2019 5:22:34 AM	49037
Ethylbenzene	ND	0.048	mg/Kg	1	11/28/2019 5:22:34 AM	49037
Xylenes, Total	ND	0.097	mg/Kg	1	11/28/2019 5:22:34 AM	49037
Surr: 4-Bromofluorobenzene	93.3	80-120	%Rec	1	11/28/2019 5:22:34 AM	49037

Matrix: SOIL

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

Qualifiers:

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

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

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Analytical Report Lab Order 1911B78

Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1911B78-008

Client Sample ID: CSW8

Collection Date: 11/23/2019 10:20:00 AM

Received Date: 11/26/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	110	60	mg/Kg	20	12/4/2019 3:01:17 PM	49141
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/2/2019 10:10:29 AM	49056
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/2/2019 10:10:29 AM	49056
Surr: DNOP	77.4	70-130	%Rec	1	12/2/2019 10:10:29 AM	l 49056
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/28/2019 5:45:36 AM	49037
Surr: BFB	98.8	77.4-118	%Rec	1	11/28/2019 5:45:36 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	11/28/2019 5:45:36 AM	49037
Toluene	ND	0.049	mg/Kg	1	11/28/2019 5:45:36 AM	49037
Ethylbenzene	ND	0.049	mg/Kg	1	11/28/2019 5:45:36 AM	49037
Xylenes, Total	ND	0.099	mg/Kg	1	11/28/2019 5:45:36 AM	49037
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	11/28/2019 5:45:36 AM	49037

Matrix: SOIL

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

Qualifiers:

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

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

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Analytical Report
Lab Order 1911B78

Date Reported: 12/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CL2-15'

 Project:
 Black River 5H
 Collection Date: 11/24/2019 9:50:00 AM

 Lab ID:
 1911B78-009
 Matrix: SOIL
 Received Date: 11/26/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	130	60	mg/Kg	20	12/4/2019 3:38:30 PM	49141
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/2/2019 10:19:40 AM	49056
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/2/2019 10:19:40 AM	49056
Surr: DNOP	73.0	70-130	%Rec	1	12/2/2019 10:19:40 AM	49056
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/28/2019 6:08:37 AM	49037
Surr: BFB	104	77.4-118	%Rec	1	11/28/2019 6:08:37 AM	49037
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/28/2019 6:08:37 AM	49037
Toluene	ND	0.048	mg/Kg	1	11/28/2019 6:08:37 AM	49037
Ethylbenzene	ND	0.048	mg/Kg	1	11/28/2019 6:08:37 AM	49037
Xylenes, Total	ND	0.096	mg/Kg	1	11/28/2019 6:08:37 AM	49037
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	11/28/2019 6:08:37 AM	49037

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

1911B78 05-Dec-19

WO#:

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID:	MB-49115
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SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49115

RunNo: 64888

Prep Date: 12/3/2019 Analysis Date: 12/3/2019

SeqNo: 2226023 Units: mg/Kg

Analyte

PQL

ND 1.5 HighLimit %RPD **RPDLimit**

Qual

Chloride

Sample ID: LCS-49115

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49115

RunNo: 64888

Units: mg/Kg

Prep Date: 12/3/2019

Analysis Date: 12/3/2019

SeqNo: 2226024

%RPD

Analyte

Result **PQL**

SPK value SPK Ref Val

%REC LowLimit 94.8

HighLimit

RPDLimit Qual

Chloride

14 1.5 15.00

90 110

Client ID:

Sample ID: MB-49141

PBS

SampType: mblk Batch ID: 49141

RunNo: 64920

TestCode: EPA Method 300.0: Anions

Prep Date: 12/4/2019

Analysis Date: 12/4/2019

1.5

SeqNo: 2227342

SPK value SPK Ref Val %REC LowLimit

LowLimit

Units: mg/Kg

RPDLimit

Analyte Chloride

ND

Result

Result

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val

15.00

HighLimit

%RPD

%RPD

%RPD

Qual

Sample ID: LCS-49141

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 49141

RunNo: 64920

Analyte Chloride

12/4/2019

Analysis Date: 12/4/2019 **PQL**

1.5

SeqNo: 2227343

Units: mg/Kg HighLimit

Qual

Sample ID: MB-49141

SampType: mblk

%REC

95.6

TestCode: EPA Method 300.0: Anions

Prep Date:

Client ID: PBS

Prep Date: 12/4/2019

Batch ID: 49141

RunNo: 64921

RPDLimit

Analyte

Result **PQL** ND

1.5

1.5

SPK value SPK Ref Val %REC LowLimit

SeqNo: 2227377 HighLimit

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

RPDLimit Qual

Chloride

Analysis Date: 12/4/2019

Units: mg/Kg

110

Sample ID: LCS-49141

Client ID: LCSS

SampType: Ics Batch ID: 49141

RunNo: 64921

Analyte Chloride

Prep Date: 12/4/2019

Analysis Date: 12/4/2019

15.00

SeqNo: 2227379 SPK value SPK Ref Val %REC LowLimit

95.9

HighLimit

%RPD

RPDLimit Qual

- **Qualifiers:** Value exceeds Maximum Contaminant Level
- Sample Diluted Due to Matrix
- ND Not Detected at the Reporting Limit Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

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

Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1911B78 05-Dec-19

WO#:

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: LCS-49026	SampT	ype: LC	s	Tes	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	•
Client ID: LCSS	Batch	ID: 49	026	F	tunNo: 6	4812				
Prep Date: 11/26/2019	Analysis D	ate: 1 1	/27/2019	S	eqNo: 2	222660	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	63.9	124			
Surr: DNOP	4.3		5.000		85.4	70	130			
Sample ID: MB-49026	SampT	/pe: ME	BLK	Tes	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 49	026	F	tunNo: 6	4812				
Prep Date: 11/26/2019	Analysis D	ate: 1 1	/27/2019	S	eqNo: 2	222661	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.1	70	130			
Sample ID: 1911B78-006AMS	SampT	/pe: M \$	S	Tes	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: CSW6	Batch	ID: 49	056	F	tunNo: 6	4856				
Prep Date: 11/27/2019	Analysis D	ate: 12	2/2/2019	S	eqNo: 2	223549	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.45	5.152	86.0	57	142			
Surr: DNOP	4.3		4.845		89.8	70	130			
Sample ID: 1911B78-006AMS	D SampT	/pe: M \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	

Cample ID. 1911B76-000ANIS	D Campi	ypc. Wic	טי	103	loode. Li	A Metriou	OU I JIVI/D. DIE	sei ivalige	Guiganics	
Client ID: CSW6	Batch	n ID: 49 0	056	R	RunNo: 64	4856				
Prep Date: 11/27/2019	Analysis D	ate: 12	2/2/2019	S	SeqNo: 2	223550	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.66	5.152	81.0	57	142	6.69	20	

Sample ID: LCS-49056	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 49	056	R	RunNo: 6	4856				
Prep Date: 11/27/2019	Analysis D	ate: 12	2/2/2019	S	SeqNo: 2	223563	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	63.9	124			
Surr: DNOP	5.1		5.000		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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1911B78 05-Dec-19

WO#:

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: MB-49056	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	n ID: 49 0	056	F	RunNo: 6	4856				
Prep Date: 11/27/2019	Analysis D	ate: 12	2/2/2019	S	SeqNo: 2	223565	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		79.9	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1911B78 05-Dec-19

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: MB-49037

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 49037

RunNo: 64830

Prep Date: 11/26/2019

SeqNo: 2222438

Analysis Date: 11/27/2019

Units: mg/Kg

Result PQL LowLimit

118

ND 5.0 SPK value SPK Ref Val %REC

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

1100

1000

77.4

WO#:

Surr: BFB

Sample ID: LCS-49037

SampType: LCS Batch ID: 49037 TestCode: EPA Method 8015D: Gasoline Range

0

RunNo: 64830

LowLimit

%RPD

Prep Date: 11/26/2019

Client ID: LCSS

1200

Analysis Date: 11/27/2019

SeqNo: 2222439

%REC

HighLimit

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result PQL 26

SPK value SPK Ref Val 5.0 25.00

1000

103 122

80 77.4 120 118 %RPD

RPDLimit

S

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

Page 13 of 14

Hall Environmental Analysis Laboratory, Inc.

1911B78 *05-Dec-19*

WO#:

Client:

Souder, Miller & Associates

Project: H

Black River 5H

Sample ID: MB-49037	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 49 0	037	R	RunNo: 6	4830				
Prep Date: 11/26/2019	Analysis D	Date: 11	/27/2019	S	SeqNo: 2	222488	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: LCS-49037	Samp1	ype: LC	S	Tes	tCode: E l	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 49 0	037	F	RunNo: 6	4830				
Prep Date: 11/26/2019	Analysis D	Date: 11	/27/2019	8	SeqNo: 2	222489	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 14



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

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Num	ber: 1911B78		RcptNo: 1	
Received By:	Tuan Roias	11/26/2019 9:00:00	AM			
Completed By:	Erin Melendrez	11/26/2019 9:14:17	AM	ingus	-	
Reviewed By:	D ~ 11/200/	9				
Chain of Cus	<u>stody</u>					
1. Is Chain of C	custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
3. Was an atten	npt made to cool the sampl	es?	Yes 🗸	No 🗌	NA 🗌	
4. Were all sam	ples received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	nple volume for indicated te	st(s)?	Yes 🗸	No 🗌		
7. Are samples ((except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preserva	ative added to bottles?		Yes	No 🗸	NA 🗌	
9. VOA vials hav	/e zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sar	mple containers received br	oken?	Yes	No 🗸	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH:	2 unless noted)
	correctly identified on Chain		Yes 🗸	No 🗌	Adjusted?	
3. Is it clear wha	t analyses were requested?		Yes 🗸	No 🗌	-	
	ng times able to be met? ustomer for authorization.)		Yes 🗸	No 🗆	Checked by:	JM 11176
	ling (if applicable)			/		
	otified of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗸	
Person	Notified:	Date:	The second secon			
By Who	om:	Via:		Phone Fax	In Person	
Regard						
	nstructions:		THE REAL PROPERTY OF THE PARTY	W(4) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
16. Additional re	marks:					
17. <u>Cooler Infor</u>	mation					
Cooler No	The base of the contract of th	Seal Intact Seal No	Seal Date	Signed By		
1	3.3 Good	Ves				

Client: SMA-Culsbad Mailing Address: Phone #: email or Fax#: OA/QC Package: □ Standard Accreditation: □ Az Compliance □ Standard □ NELAC □ Other □ EDD (Type) □ EDD (Type) □ EDD (Type) □ H45	Standard Ime: Standard St	5 day turn S-H S-H S-C=32 (°C) -001 -001 -005 -005 -005 -005 -005 -005	(1508) a'BMF \ MBFa \ (802) PR (802) PR (802) PR (903) PR	8081 Pesticides/8082 PCB's EDB (Method 504.1)	MAY DAD (OHN V DAD (OHN V DAD) 1	Analysis	NALYSIN NAW. hallen NAW	Www.hallenvironmental.com Kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 RCRA 8 Metals R270 (Semi-VOA) R270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)	
Time: Relinquished by: Reginquished by:	Received by: Via:	Date Time Fill ながの Date Time	Remarks:	Non	150		Pe, Bu	184 Per Add 8TE)	1610m



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

December 06, 2019

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

FAX

RE: Black River 5H OrderNo.: 1911D05

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/30/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1911D05

Date Reported: 12/6/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CL6

 Project:
 Black River 5H
 Collection Date: 11/26/2019 9:20:00 AM

 Lab ID:
 1911D05-001
 Matrix: SOIL
 Received Date: 11/30/2019 11:10:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	12/5/2019 3:36:36 PM	49174
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/3/2019 5:23:09 PM	49093
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/3/2019 5:23:09 PM	49093
Surr: DNOP	80.7	70-130	%Rec	1	12/3/2019 5:23:09 PM	49093
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/3/2019 1:13:50 PM	49082
Surr: BFB	83.5	77.4-118	%Rec	1	12/3/2019 1:13:50 PM	49082
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	12/3/2019 1:13:50 PM	49082
Toluene	ND	0.047	mg/Kg	1	12/3/2019 1:13:50 PM	49082
Ethylbenzene	ND	0.047	mg/Kg	1	12/3/2019 1:13:50 PM	49082
Xylenes, Total	ND	0.095	mg/Kg	1	12/3/2019 1:13:50 PM	49082
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	12/3/2019 1:13:50 PM	49082

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

Qualifiers:

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

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

Page 1 of 7

Analytical Report Lab Order 1911D05

Date Reported: 12/6/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Black River 5H

Lab ID: 1911D05-002

Project:

Client Sample ID: CSW 3

Collection Date: 11/26/2019 8:28:00 AM Received Date: 11/30/2019 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	ND	60		mg/Kg	20	12/5/2019 3:48:57 PM	49174
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	12/4/2019 7:42:23 PM	49093
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	12/4/2019 7:42:23 PM	49093
Surr: DNOP	65.4	70-130	S	%Rec	1	12/4/2019 7:42:23 PM	49093
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/3/2019 1:36:37 PM	49082
Surr: BFB	83.0	77.4-118		%Rec	1	12/3/2019 1:36:37 PM	49082
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	12/3/2019 1:36:37 PM	49082
Toluene	ND	0.048		mg/Kg	1	12/3/2019 1:36:37 PM	49082
Ethylbenzene	ND	0.048		mg/Kg	1	12/3/2019 1:36:37 PM	49082
Xylenes, Total	ND	0.097		mg/Kg	1	12/3/2019 1:36:37 PM	49082
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	12/3/2019 1:36:37 PM	49082

Matrix: SOIL

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

Qualifiers:

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

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

Page 2 of 7

Analytical Report Lab Order 1911D05

Date Reported: 12/6/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1911D05-003

Client Sample ID: CSW 9

Collection Date: 11/26/2019 8:54:00 AM Received Date: 11/30/2019 11:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	12/5/2019 4:01:18 PM	49174
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/3/2019 5:41:32 PM	49093
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/3/2019 5:41:32 PM	49093
Surr: DNOP	72.1	70-130	%Rec	1	12/3/2019 5:41:32 PM	49093
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/3/2019 1:59:30 PM	49082
Surr: BFB	82.0	77.4-118	%Rec	1	12/3/2019 1:59:30 PM	49082
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	12/3/2019 1:59:30 PM	49082
Toluene	ND	0.049	mg/Kg	1	12/3/2019 1:59:30 PM	49082
Ethylbenzene	ND	0.049	mg/Kg	1	12/3/2019 1:59:30 PM	49082
Xylenes, Total	ND	0.099	mg/Kg	1	12/3/2019 1:59:30 PM	49082
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	12/3/2019 1:59:30 PM	49082

Matrix: SOIL

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

Qualifiers:

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

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

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

1911D05 06-Dec-19

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: MB-49174

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49174

RunNo: 64987

Prep Date: 12/5/2019

Analysis Date: 12/5/2019

SeqNo: 2228955 Units: mg/Kg

Qual

Analyte Chloride

Result

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

ND 1.5

Sample ID: LCS-49174

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 49174

RunNo: 64987

Prep Date: 12/5/2019

Analysis Date: 12/5/2019

SeqNo: 2228956

Units: mg/Kg

Analyte

90

Chloride

SPK value SPK Ref Val %REC LowLimit

15.00

%RPD

RPDLimit

Qual

15

96.7

110

1.5

WO#:

0

HighLimit

Qualifiers:

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

% Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded ND

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

Analyte detected in the associated Method Blank Analyte detected below quantitation limits

Value above quantitation range

Sample pH Not In Range

Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

1911D05 06-Dec-19

Client:

Souder, Miller & Associates

Project: Black River 5H

Sample ID: LCS-49070

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 49070

RunNo: 64876

Units: %Rec

Prep Date: 12/2/2019 Analysis Date: 12/3/2019

SeqNo: 2224173

%RPD **RPDLimit** Qual

Result

PQL SPK value SPK Ref Val %REC LowLimit 79.0 70

Surr: DNOP

4.0

5.000

10.00

5 000

10.00

130 TestCode: EPA Method 8015M/D: Diesel Range Organics

HighLimit

WO#:

Client ID:

Sample ID: MB-49070

SampType: MBLK

RunNo: 64876

Prep Date: 12/2/2019

PBS

Batch ID: 49070

SeqNo: 2224174

Units: %Rec

130

Analyte

Analysis Date: 12/3/2019

SPK value SPK Ref Val %REC

LowLimit HighLimit 70

%RPD **RPDLimit**

Qual

Surr: DNOP

10

SampType: LCS

105 TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID: LCS-49089

Client ID: LCSS

Batch ID: 49089

4.1

Result

8.5

Result

RunNo: 64876

Units: %Rec

Analyte

Prep Date: 12/2/2019

Analysis Date: 12/3/2019

SeqNo: 2224924

LowLimit

%RPD

RPDLimit

Surr: DNOP

Result

SPK value SPK Ref Val %REC

82 7

HighLimit 70 130

Qual

Sample ID: MB-49089

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID:

Client ID: LCSS

PBS

Batch ID: 49089

RunNo: 64876

Analyte

12/2/2019

Analysis Date: 12/3/2019 **PQL**

SeqNo: 2224925 LowLimit Units: %Rec HighLimit

130

RPDLimit

Qual

Surr: DNOP

Prep Date:

Sample ID: LCS-49093

SampType: LCS

70 TestCode: EPA Method 8015M/D: Diesel Range Organics

70

70

SPK value SPK Ref Val %REC

RunNo: 64876

85.3

%RPD

Prep Date: 12/2/2019

Analysis Date: 12/3/2019

Batch ID: 49093

PQL

10

SeqNo: 2225772

Units: mg/Kg

124

130

130

RPDLimit Qual

Surr: DNOP

Client ID:

Diesel Range Organics (DRO)

3.7

Batch ID: 49093

50.00 88.2 5.000 74.5

SPK value SPK Ref Val

%REC LowLimit

HighLimit 63.9

%RPD

Sample ID: MB-49093

PBS

Motor Oil Range Organics (MRO)

SampType: MBLK

Result

44

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 64876

%RPD

Analyte Diesel Range Organics (DRO)

Prep Date: 12/2/2019

Analysis Date: 12/3/2019 Result PQL

ND

ND

7.9

10 50

10.00

SeqNo: 2225773 SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg HighLimit

RPDLimit Qual

Surr: DNOP

Qualifiers:

Value exceeds Maximum Contaminant Level

Practical Quanitative Limit

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

Sample Diluted Due to Matrix

% Recovery outside of range due to dilution or matrix

79.3

Analyte detected in the associated Method Blank Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range Reporting Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

1911D05 06-Dec-19

WO#:

Client:

Souder, Miller & Associates

Project: Black River 5H

Sample ID: mb-49082 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 49082 RunNo: 64903

Prep Date: 12/2/2019 Analysis Date: 12/3/2019 SeqNo: 2225312 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 880 1000 88.3 77.4 118

Sample ID: Ics-49082 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 49082 RunNo: 64903

Prep Date: 12/2/2019 Analysis Date: 12/3/2019 SeqNo: 2225313 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 97.2
 80
 120

 Surr: BFB
 970
 1000
 96.8
 77.4
 118

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

06-Dec-19

1911D05

WO#:

Client:

Souder, Miller & Associates

Project: Black River 5H

Sample ID: mb-49082 SampType: MBLK				TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS Batch ID: 49082				R	RunNo: 6	4903						
Prep Date: 12/2/2019	Analysis D	Date: 12	2/3/2019	S	SeqNo: 2	225359	Units: mg/K					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120					

Sample ID: LCS-49082	Samp1	Гуре: LC	S	Tes						
Client ID: LCSS	Batcl	h ID: 49 0	082	F	RunNo: 6	4903				
Prep Date: 12/2/2019	Analysis D	Date: 12	2/3/2019	8	SeqNo: 2	225360	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

8 % 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 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-CARLSBA	.D Wor	k Order Nur	mber: 1911D05	··· .	RcptNo	: 1
Received By:	Erin Melendre	z 11/30/	2019 11:10	:00 AM	u us	,	
Completed By:	Erin Melendre	z 11/30/	2019 2:16:5	56 PM	unas	<u></u>	
Reviewed By:	ENM	121	12/19				
Chain of Cus	stody						
1. Is Chain of C	Sustody complete?			Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?	?		<u>FedEx</u>			
<u>Log In</u> 3. Was an atter	mpt made to cool th	he samples?		Yes 🗹	No 🗌	na 🗌	
4. Were all sam	ples received at a	temperature of >0° C	to 6.0°C	Yes 🗹	No 🗀	NA 🗆	
5. Sample(s) in	proper container(s	3)?		Yes 🗹	No 🗌		
6. Sufficient san	nple volume for ind	licated test(s)?		Yes 🗸	No 🗀		
7. Are samples	(except VOA and 0	ONG) properly presen	/ed?	Yes 🗹	No 🗆		
8. Was preserva	ative added to bottl	es?		Yes 🗌	No 🗹	NA \square	
9. VOA vials ha	ve zero headspace	?		Yes 🗌	No 🗌	No VOA Vials 🗸	
10. Were any sa	mple containers re	ceived broken?		Yes	No 🗸	# of preserved	· · · · · ·
	ork match bottle la ancies on chain of			Yes 🗹	No 🗌	bottles checked for pH:	>12 unless noted)
		on Chain of Custody?	?	Yes 🗹	No 🗆	Adjusted?	
13. Is it clear wha	it analyses were re	quested?		Yes 🗹	No 🗌		<i>i</i> 1
	ing times able to be sustomer for author			Yes 🗹	No 🗀	Checked by:	DM 12/2/19
Special Hand	ling (if applica	ble)					
15. Was client no	otified of all discrep	pancies with this order	?	Yes 🗆	No 🗆	NA 🗹	_
Person	Notified:	A SUPERING AND THE STREET	Date	e:	Palaka sama a serimananan meranan meranan		
By Who	om:		Via:	eMail [Phone 🗌 Fax	☐ In Person	
Regard						was manufacture in a variable of the state o	
L,,	nstructions:					And an international control of the state of	
16. Additional re	marks:						
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Chair of Cretory Doors	21411- Chilobad		Mailing Address:	Pro	Phone #:	email or Fax#:	QA/QC Package:	□ Standard □ Level 4 (Full Validation)	npliance		□ EDD (Iype) #of		O	Matrix Sample Name			654 CSW 9					4.1	Time: Relinquished by:	Date: Time: Relinquished by: Receiv



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

December 10, 2019

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

RE: Black River 5H OrderNo.: 1912060

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/3/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1912060

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1912060-001

Client Sample ID: CL8-1'

Collection Date: 12/2/2019 9:48:00 AM

Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	12/6/2019 2:37:42 PM	49195
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/5/2019 3:04:01 PM	49139
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/5/2019 3:04:01 PM	49139
Surr: DNOP	90.2	70-130	%Rec	1	12/5/2019 3:04:01 PM	49139
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/4/2019 4:11:33 PM	49121
Surr: BFB	86.1	77.4-118	%Rec	1	12/4/2019 4:11:33 PM	49121
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	12/4/2019 4:11:33 PM	49121
Toluene	ND	0.046	mg/Kg	1	12/4/2019 4:11:33 PM	49121
Ethylbenzene	ND	0.046	mg/Kg	1	12/4/2019 4:11:33 PM	49121
Xylenes, Total	ND	0.092	mg/Kg	1	12/4/2019 4:11:33 PM	49121
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	12/4/2019 4:11:33 PM	49121

Matrix: SOIL

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

Qualifiers:

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

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

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Analytical Report

Lab Order **1912060**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/10/2019

CLIENT: Souder, Miller & Associates Client Sample ID: CL7-0.5'

 Project:
 Black River 5H
 Collection Date: 12/2/2019 9:52:00 AM

 Lab ID:
 1912060-002
 Matrix: SOIL
 Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	270	60	mg/Kg	20	12/6/2019 2:50:03 PM	49195
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/5/2019 3:28:15 PM	49139
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/5/2019 3:28:15 PM	49139
Surr: DNOP	71.3	70-130	%Rec	1	12/5/2019 3:28:15 PM	49139
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/4/2019 4:35:00 PM	49121
Surr: BFB	83.6	77.4-118	%Rec	1	12/4/2019 4:35:00 PM	49121
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	12/4/2019 4:35:00 PM	49121
Toluene	ND	0.046	mg/Kg	1	12/4/2019 4:35:00 PM	49121
Ethylbenzene	ND	0.046	mg/Kg	1	12/4/2019 4:35:00 PM	49121
Xylenes, Total	ND	0.092	mg/Kg	1	12/4/2019 4:35:00 PM	49121
Surr: 4-Bromofluorobenzene	96.8	80-120	%Rec	1	12/4/2019 4:35:00 PM	49121

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

Qualifiers:

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

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

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Analytical Report Lab Order 1912060

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CL12-4'

 Project:
 Black River 5H
 Collection Date: 12/2/2019 10:02:00 AM

 Lab ID:
 1912060-003
 Matrix: SOIL
 Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	12/6/2019 4:53:33 PM	49205
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/5/2019 3:52:40 PM	49139
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/5/2019 3:52:40 PM	49139
Surr: DNOP	67.8	70-130	S	%Rec	1	12/5/2019 3:52:40 PM	49139
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/4/2019 4:58:25 PM	49121
Surr: BFB	85.6	77.4-118		%Rec	1	12/4/2019 4:58:25 PM	49121
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	12/4/2019 4:58:25 PM	49121
Toluene	ND	0.050		mg/Kg	1	12/4/2019 4:58:25 PM	49121
Ethylbenzene	ND	0.050		mg/Kg	1	12/4/2019 4:58:25 PM	49121
Xylenes, Total	ND	0.099		mg/Kg	1	12/4/2019 4:58:25 PM	49121
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	12/4/2019 4:58:25 PM	49121

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

Qualifiers:

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

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

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Analytical Report

Lab Order **1912060**Date Reported: **12/10/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CL9-0.5'

 Project:
 Black River 5H
 Collection Date: 12/2/2019 10:07:00 AM

 Lab ID:
 1912060-004
 Matrix: SOIL
 Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	12/6/2019 5:30:36 PM	49205
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/5/2019 4:16:50 PM	49139
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/5/2019 4:16:50 PM	49139
Surr: DNOP	58.8	70-130	S	%Rec	1	12/5/2019 4:16:50 PM	49139
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/4/2019 5:21:46 PM	49121
Surr: BFB	85.8	77.4-118		%Rec	1	12/4/2019 5:21:46 PM	49121
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.023		mg/Kg	1	12/4/2019 5:21:46 PM	49121
Toluene	ND	0.046		mg/Kg	1	12/4/2019 5:21:46 PM	49121
Ethylbenzene	ND	0.046		mg/Kg	1	12/4/2019 5:21:46 PM	49121
Xylenes, Total	ND	0.092		mg/Kg	1	12/4/2019 5:21:46 PM	49121
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	12/4/2019 5:21:46 PM	49121

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

Qualifiers:

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

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

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Analytical Report

Lab Order **1912060**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/10/2019

CLIENT: Souder, Miller & Associates Client Sample ID: CL10-0.5'

 Project:
 Black River 5H
 Collection Date: 12/2/2019 10:08:00 AM

 Lab ID:
 1912060-005
 Matrix: SOIL
 Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	270	60		mg/Kg	20	12/6/2019 6:07:40 PM	49205
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/5/2019 4:41:11 PM	49139
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2019 4:41:11 PM	49139
Surr: DNOP	34.6	70-130	S	%Rec	1	12/5/2019 4:41:11 PM	49139
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/4/2019 5:45:24 PM	49121
Surr: BFB	83.1	77.4-118		%Rec	1	12/4/2019 5:45:24 PM	49121
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.023		mg/Kg	1	12/4/2019 5:45:24 PM	49121
Toluene	ND	0.046		mg/Kg	1	12/4/2019 5:45:24 PM	49121
Ethylbenzene	ND	0.046		mg/Kg	1	12/4/2019 5:45:24 PM	49121
Xylenes, Total	ND	0.093		mg/Kg	1	12/4/2019 5:45:24 PM	49121
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	12/4/2019 5:45:24 PM	49121

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

Qualifiers:

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

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

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1912060-006

Lab ID:

Analytical Report

Lab Order 1912060

Client Sample ID: CL11-4'

Received Date: 12/3/2019 9:23:00 AM

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H Collection Date: 12/2/2019 10:18:00 AM

Matrix: SOIL

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 mg/Kg 20 12/6/2019 6:20:00 PM 49205 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 8.9 12/5/2019 5:05:21 PM mg/Kg 49139 Motor Oil Range Organics (MRO) ND mg/Kg 12/5/2019 5:05:21 PM 49139 45 1 Surr: DNOP 49139 64.2 70-130 %Rec 12/5/2019 5:05:21 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 12/4/2019 6:08:57 PM Gasoline Range Organics (GRO) ND 49121 4.8 mg/Kg Surr: BFB 80.2 77.4-118 %Rec 12/4/2019 6:08:57 PM 49121 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 12/4/2019 6:08:57 PM 49121 mg/Kg Toluene ND 0.048 12/4/2019 6:08:57 PM 49121 mg/Kg Ethylbenzene ND 0.048 12/4/2019 6:08:57 PM mg/Kg 1 49121 Xylenes, Total ND 0.096 mg/Kg 12/4/2019 6:08:57 PM 1 Surr: 4-Bromofluorobenzene 93.3 80-120 %Rec 12/4/2019 6:08:57 PM 49121

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

Qualifiers:

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

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

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Analytical Report Lab Order 1912060

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Black River 5H

Lab ID: 1912060-007

Client Sample ID: CSW1

Collection Date: 12/2/2019 10:30:00 AM

Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	ND	60		mg/Kg	20	12/6/2019 6:57:03 PM	49205
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/5/2019 5:29:38 PM	49139
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/5/2019 5:29:38 PM	49139
Surr: DNOP	44.4	70-130	S	%Rec	1	12/5/2019 5:29:38 PM	49139
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/4/2019 7:42:38 PM	49121
Surr: BFB	85.4	77.4-118		%Rec	1	12/4/2019 7:42:38 PM	49121
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	12/4/2019 7:42:38 PM	49121
Toluene	ND	0.049		mg/Kg	1	12/4/2019 7:42:38 PM	49121
Ethylbenzene	ND	0.049		mg/Kg	1	12/4/2019 7:42:38 PM	49121
Xylenes, Total	ND	0.097		mg/Kg	1	12/4/2019 7:42:38 PM	49121
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	12/4/2019 7:42:38 PM	49121

Matrix: SOIL

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

Qualifiers:

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

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

Page 7 of 14

CLIENT: Souder, Miller & Associates

Analytical Report

Lab Order **1912060**

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: CSW4

 Project:
 Black River 5H
 Collection Date: 12/2/2019 10:45:00 AM

 Lab ID:
 1912060-008
 Matrix: SOIL
 Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	170	60		mg/Kg	20	12/6/2019 7:09:25 PM	49205
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/5/2019 5:53:47 PM	49139
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/5/2019 5:53:47 PM	49139
Surr: DNOP	60.0	70-130	S	%Rec	1	12/5/2019 5:53:47 PM	49139
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/4/2019 8:06:08 PM	49121
Surr: BFB	81.0	77.4-118		%Rec	1	12/4/2019 8:06:08 PM	49121
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.023		mg/Kg	1	12/4/2019 8:06:08 PM	49121
Toluene	ND	0.047		mg/Kg	1	12/4/2019 8:06:08 PM	49121
Ethylbenzene	ND	0.047		mg/Kg	1	12/4/2019 8:06:08 PM	49121
Xylenes, Total	ND	0.093		mg/Kg	1	12/4/2019 8:06:08 PM	49121
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	12/4/2019 8:06:08 PM	49121

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

Qualifiers:

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

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

Page 8 of 14

Analytical Report Lab Order 1912060

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW5

 Project:
 Black River 5H
 Collection Date: 12/2/2019 10:10:00 AM

 Lab ID:
 1912060-009
 Matrix: SOIL
 Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	12/6/2019 7:21:45 PM	49205
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	12/5/2019 6:18:05 PM	49139
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/5/2019 6:18:05 PM	49139
Surr: DNOP	56.8	70-130	S	%Rec	1	12/5/2019 6:18:05 PM	49139
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/4/2019 8:29:43 PM	49121
Surr: BFB	85.7	77.4-118		%Rec	1	12/4/2019 8:29:43 PM	49121
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	12/4/2019 8:29:43 PM	49121
Toluene	ND	0.050		mg/Kg	1	12/4/2019 8:29:43 PM	49121
Ethylbenzene	ND	0.050		mg/Kg	1	12/4/2019 8:29:43 PM	49121
Xylenes, Total	ND	0.10		mg/Kg	1	12/4/2019 8:29:43 PM	49121
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	12/4/2019 8:29:43 PM	49121

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

Qualifiers:

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

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

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Analytical Report Lab Order 1912060

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW10

 Project:
 Black River 5H
 Collection Date: 12/2/2019 9:58:00 AM

 Lab ID:
 1912060-010
 Matrix: SOIL
 Received Date: 12/3/2019 9:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	320	60		mg/Kg	20	12/6/2019 7:34:06 PM	49205
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/5/2019 6:42:03 PM	49139
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/5/2019 6:42:03 PM	49139
Surr: DNOP	40.1	70-130	S	%Rec	1	12/5/2019 6:42:03 PM	49139
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/4/2019 8:53:08 PM	49121
Surr: BFB	87.2	77.4-118		%Rec	1	12/4/2019 8:53:08 PM	49121
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	12/4/2019 8:53:08 PM	49121
Toluene	ND	0.048		mg/Kg	1	12/4/2019 8:53:08 PM	49121
Ethylbenzene	ND	0.048		mg/Kg	1	12/4/2019 8:53:08 PM	49121
Xylenes, Total	ND	0.097		mg/Kg	1	12/4/2019 8:53:08 PM	49121
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/4/2019 8:53:08 PM	49121

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

10-Dec-19

1912060

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: MB-49195

Prep Date: 12/6/2019

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49195

RunNo: 65000

Analysis Date: 12/6/2019

SeqNo: 2230260 Units: mg/Kg

Analyte

Result PQL

HighLimit

RPDLimit

WO#:

Qual

Chloride

ND 1.5

Sample ID: LCS-49195

SampType: Ics

TestCode: EPA Method 300.0: Anions

90

Client ID: LCSS Batch ID: 49195

RunNo: 65000

Prep Date: 12/6/2019

Analysis Date: 12/6/2019

SeqNo: 2230261

Units: mg/Kg

110

%RPD

%RPD

Analyte Chloride

Client ID:

Result **PQL**

15

SPK value SPK Ref Val

SPK value SPK Ref Val %REC LowLimit

%REC LowLimit 97.0

HighLimit

RPDLimit

Qual

Sample ID: MB-49205

SampType: mblk

1.5

RunNo: 65000

TestCode: EPA Method 300.0: Anions

Prep Date: 12/6/2019

PBS

Batch ID: 49205 Analysis Date: 12/6/2019

SeqNo: 2230295

Units: mg/Kg

%RPD

Analyte

Result ND 1.5 SPK value SPK Ref Val %REC LowLimit

LowLimit

HighLimit

RPDLimit

Qual

Chloride

Sample ID: LCS-49205

SampType: Ics

RunNo: 65000

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

LCSS

12/6/2019

Batch ID: 49205

Result

14

SeqNo: 2230296

Units: mg/Kg HighLimit

110

Analyte

Analysis Date: 12/6/2019

SPK value SPK Ref Val %REC

15.00

94.0

90

%RPD

Qual

Chloride

PQL 1.5

15.00

RPDLimit

Qualifiers: Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1912060 10-Dec-19

WO#:

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: MB-49139	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	n ID: 49	139	RunNo: 64962						
Prep Date: 12/4/2019	Analysis D	ate: 12	2/5/2019	8	SeqNo: 2	227843	Units: mg/K	(g		
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		128	70	130			
Sample ID: LCS-49139	SampT	ype: LC	:S	Tes	tCode: EI	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID: LCS-49139 Client ID: LCSS	·	ype: LC			tCode: EI RunNo: 6		8015M/D: Die	esel Rango	e Organics	
	·	n ID: 49 °	139	F		4962	8015M/D: Die	J	e Organics	
Client ID: LCSS	Batch	n ID: 49 °	139 2/5/2019	F	RunNo: 6	4962		J	e Organics RPDLimit	Qual
Client ID: LCSS Prep Date: 12/4/2019	Batch Analysis D	n ID: 49 Pate: 12	139 2/5/2019	F	RunNo: 6	4962 227881	Units: mg/K	(g	J	Qual

Sample ID: 1912060-010AMS	SampT	ype: MS TestCode: EPA Method			d 8015M/D: Diesel Range Organics					
Client ID: CSW10	Batch	ID: 49	139	R	RunNo: 6	4962				
Prep Date: 12/4/2019	Analysis D	ate: 12	2/5/2019	S	SeqNo: 2	229378	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.5	47.57	0	75.1	57	142			
Surr: DNOP	1.4		4.757		30.1	70	130			S

Sample ID: 1912060-010AMSD) SampT	ype: M \$	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: CSW10	Batch	ID: 49	139	F	RunNo: 6	4962				
Prep Date: 12/4/2019	Analysis D	ate: 12	2/5/2019	8	SeqNo: 2	229379	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.5	47.35	0	113	57	142	40.0	20	R
Surr: DNOP	2.7		4.735		56.6	70	130	0	0	S

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1912060 10-Dec-19

WO#:

Client:

Souder, Miller & Associates

Project:

Black River 5H

Sample ID: mb-49121	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	n ID: 49	121	R	RunNo: 6	4923				
Prep Date: 12/3/2019	Analysis D	ate: 12	2/4/2019	S	SeqNo: 2	227078	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Curr. DED	910		1000		01 /	77 /	110			

Surr: BFB 810 1000 81.4 77.4 118

Sample ID: Ics-49121	SampT	SampType: LCS TestCode: EPA Method 8			od 8015D: Gasoline Range					
Client ID: LCSS	Batch	n ID: 49	121	R	RunNo: 6	4923				
Prep Date: 12/3/2019	Analysis D	ate: 12	2/4/2019	S	SeqNo: 2	227079	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.2	80	120			
Surr: BFB	1000		1000		101	77.4	118			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 13 of 14

Hall Environmental Analysis Laboratory, Inc.

1912060 10-Dec-19

WO#:

Client:

Souder, Miller & Associates

Project: Black River 5H

Sample ID: mb-49121	Samp	SampType: MBLK		Tes	tCode: El	iles				
Client ID: PBS	Batc	h ID: 49	121	R	RunNo: 6	4923				
Prep Date: 12/3/2019	Analysis [Date: 12	2/4/2019	S	SeqNo: 2	227102	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	80	120			

Sample ID: LCS-49121	Samp	Type: LC	S	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	h ID: 49	121	RunNo: 64923									
Prep Date: 12/3/2019	Analysis [Date: 12	2/4/2019	8	SeqNo: 2	227103	Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.91	0.025	1.000	0	91.3	80	120						
Toluene	0.94	0.050	1.000	0	93.6	80	120						
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120						
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120						
Surr: 4-Bromofluorobenzene	1.0		1.000		102	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 Quanitative Limit

% 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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Number: 1912060		RcptNo: 1
Received By: Yazmine Garduno 1	2/3/2019 9:23:00 AM	nfaymini leifindas	v
Completed By: Desiree Dominguez 1	2/3/2019 10:03:25 AM	THE	
Reviewed By: YG 12/3/19			
<u>Chain of Custody</u>		_	
1. Is Chain of Custody sufficiently complete?	Yes 🗸	No 🗌	Not Present
2 How was the sample delivered?	Courier		
Log In			-
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗆
4. Were all samples received at a temperature of	>0° 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 p	reserved? Yes 🗹	No 🗌	
8. Was preservative added to bottles?	Yes	No 🔽	NA 🗀
9. Received at least 1 vial with headspace <1/4" fo	r AQ VOA? Yes □	No 🗌	NA 🗹
0. Were any sample containers received broken?	Yes 🗀	No 🗹	# of preserved bottles checked
Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗔	for pH: (<2 or >12 tinless noted
2. Are matrices correctly identified on Chain of Cus	stody? Yes	No 🗌	Adjusted?
3, Is it clear what analyses were requested?	Yes 🗸	No 🗌	
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by: EDMIC
pecial Handling (if applicable)			
5. 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:			
7. Cooler Information Cooler No Temp °C Condition Seal I	ntact Seal No Seal Date	Signed By	I

Chain-of-Custody Record E SMA - Carlsback	шe	: d'Rush S day tiprin			I	HALL	E N	N S	HALL ENVIRONMENTAL ANALYSIS I ABORATORY	NTAL
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	K RWer	# S H	4	901 H	awkin	4901 Hawkins NE	- Albu	dnerg	Albuquerque, NM 87109	
	Project #:			el. 50	5-34	Tel. 505-345-3975	Fa	× 50!	Fax 505-345-4107	
							Analysis Request	is Re	quest	
	Project Manager:		_				₽O		(11	
□ Level 4 (Full Validation)	Asmen Making		S (802 SM / C			SMIS	S '⁵Od		iesdA\t	
0) [2	/ A.A.	N. W.					' ^z ON	(A		
										··.
	Cooler Temp(including cr): 以以【V	0)= 4.V								
C Matrix Sample Name T	Container Preservative Type	G HEAL NO.	γ(<u>X∃Т</u> β) 08:H9Τ	9 1808	EDB (W	PAHs b	(j F, B	V) 0828 S) 0728	Total Co	
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CL10-0.51		- 005	\times				×			
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