

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

June 12, 2019

NMOCD District 1 1625 N. French Drive Hobbs, NM 88240

SUBJECT: Amended Remediation Closure Report for the Caudill 8 #002 Release (1RP-4418), Lea County, New Mexico

To Whom It May Concern,

On behalf of Matador Resources, 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 Caudill 8 #002 site. The site is in Unit L, Section 8, Township 16S, Range 37E, Lea County, New Mexico, on private land. Figures 1 and 2 illustrate 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	Caudill 8 #002	Company	Matador Resources			
API Number	30-025-30406	Location	32.9348221 -103.278389			
Incident Number		1RP-4418				
Estimated Date of Release	8/24/2016	Date Reported to NMOCD	8/24/2016			
Land Owner	Private	Reported To	NMOCD District I			
Source of Release	Recirculation pump					
Released Volume	56 bbls	Released Material	produced water			
Recovered Volume	35 bbls	Net Release	21 bbls			
NMOCD Closure Criteria	<50 feet to groundwater					
SMA Response Dates	8/24/2016, 2/24/2017, 3/19/2019, 4/18/2019, 5/27/2019					

1.0 Background

On August 24, 2016, a release was discovered at the Caudill 8 #002 site due to equipment failure. The connection to the water dump valve failed, which caused an excess amount of fluid in the produced water tank. Initial response activities included source elimination and site security. The leak was contained within the bermed containment and all standing fluid was vacuumed up and disposed of at an NMOCD approved facility. Figure 1 illustrates the regional vicinity and well head protection in the area, Figure 2 illustrates the surface water protection in the area, and Figure 3 illustrates the site and sample locations. The C-141 form is included in Appendix A

2.0 Site Information and Closure Criteria

The Caudill 8 #002 site is located approximately 4 miles east of Lovington, New Mexico on private land with a land elevation of approximately 3865 feet above mean sea level.

As summarized in Table 2 and illustrated in Figure 1, depth to groundwater in the area is estimated to be 54 feet below grade surface (bgs). There are two known water sources within 1000 feet 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 11/8/2018). The nearest significant watercourse is an unnamed pond, located approximately 2700 feet to the south. Figure 1 illustrates the site with 1000-foot radii to indicate that it does 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 Activities and Findings

On August 24, 2016, SMA field personnel assessed the release area. A total of 3 sample locations (L1-L3) were established for collection of surface samples. A total of 3 samples were collected for laboratory analysis for motor oil, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D to depths up to six inches. Table 3 itemizes these initial samples and locations are depicted on Figure 3a. This data was submitted to NMOCD by SMA in the form of a remediation work plan dated November 11, 2016 with the proposed work to be the excavation of impacted materials.

After review of the submitted workplan, NMOCD requested further delineation. On June 30, 2017, SMA returned to the Caudill 8 #002 location, at which time an additional sample location (L4) was established and surface samples were recollected from sample locations L1, L2 and L3. A total of 4 samples were collected for laboratory analysis for diesel and gasoline range organics (DRO, and GRO) by EPA Method 8015D.

These results still yielded levels of TPH above NMOCD closure criteria and lacked analysis for all required constituents. An in-situ remediation approach was then taken as the excavation of the release area could cause safety issues or major facility destruction.

4.0 Soil Remediation Summary

On March 19, 2019, SMA returned to the site to guide the application of the bioremediation solution to the release area (Figure 3b). Thirty days after the application, the location was visited on April 18, 2019 to track progress of treatment. NMOCD was notified on May 21, 2019 that closure samples were expected to be collected.

Approximately sixty days after the application, the release area was resampled to ensure proper treatment of contamination. On May 27, 2019, SMA conducted confirmation sampling of the location. The confirmation samples were collected from within the release area in accordance with a systematic sampling approach as defined by SW846 (using Gilbert, 1987 equation 5.2.3 for Stratified Random Sampling which is detailed in Appendix C). This systematic method meets the EPAs data quality assessment standards (DQA) for composite sampling (Myers 1997). Confirmation samples were comprised of five-point composites of the horizontal extents of the release area (SW1 & SW2) and a variety of depths (surface to 2 feet) along the release path and previous sampling locations (L1 - L4) (seen in Figure 3b.)

A total of 8 sample were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory reports are included in Appendix D.

The sample results in Table 3 indicate that the treatment was effective, and the release meets closure criteria. SMA proposes no further action be taken.

5.0 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 Melodie Sanjari at 574-370-9782 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Janyan

Melodie Sanjari Staff Scientist

Reviewed by:

hauna Chubbuck

Shawna Chubbuck Senior Scientist

Page 3 of 4

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 2: Surface Water Radius Map Figure 3a: Site and 2016 Sample Location Map Figure 3b: Closure Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification Table 3: Summary of Sample Results

Appendices:

Appendix A: C141 Forms Appendix B: NMOSE Wells Report Appendix C: VSP Closure Sampling Protocol Appendix D: Laboratory Analytical Reports Page 4 of 63

FIGURES



Released to Imaging: 2/3/2023 8:46:29 AM

Received by OCD: 12/7/2022 10:45:59 AM





Page 8 of 63

Received by OCD: 12/7/2022 10:45:59 AM



TABLES

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	54	OSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	890 & 960	OSE (POD 05621 & POD 10363 Respectively)
Hortizontal Distance to Nearest Significant Watercourse (ft)	2700	Unnamed pond

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
		Close	ure Criteria	a (units in n	ng/kg)	
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene	
< 50' BGS	х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant watercourse?	no	_				
<200' from lakebed, sinkhole or playa lake?	no					
<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?	no yes	-				
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	no					
within incorporated municipal boundaries or within a defined						
municipal fresh water well field?	-					
<100' from wetland?	no	-				
within area overlying a subsurface mine	4					
within an unstable area?	no	4				
within a 100-year floodplain?	no					

.

Table 3: Summary of Sample Results

Matador Resources Caudill #002 (1RP-4418)

Sample Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	
ID	Date	(feet bgs)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NM	OCD Closure	e Criteria	50	10	10	00		100	600
L1		surface			<4.7	65	83	148	
L2	8/24/2016	surface	<10.8	<1.2	<240	18000	12000	30000	
L3		surface			<250	5900	4400	10300	
L1		surface			<3.9	2700		2700	
L2	6/30/2017	surface			<4.8	15		15	
L3	0/30/2017	surface			<4.0	1900		1900	
L4		surface			<4.3	200		200	
-			60 I	Days After	Applicatior	ו			
1.1		surface	<0.207	<0.023	<4.6	<9.9	<49	<63.5	<60
L I		1.5	<0.225	<0.025	<5.0	<9.8	<49	<63.8	<60
12		surface	<0.212	<0.024	<4.7	<9.8	<49	<63.5	<60
LZ		2	<0.208	<0.023	<4.6	<9.9	<50	<64.5	<60
12	5/27/2010	surface	<0.225	<0.025	<5.0	<9.9	<50	<64.9	<60
LJ	5/27/2019	1.5	<0.217	<0.024	<4.8	67	55	122	<60
14		surface	<0.219	<0.024	<4.9	<9.8	<49	<63.7	<60
L4		2	<0.222	<0.025	<4.9	31	<49	31	<60
SW1		sidewall	<0.221	<0.025	<4.9	<10	<50	<64.9	<60
SW2		sidewall	<0.213	<0.024	<4.7	<9.8	<49	<63.5	<60

"--" = Not Analyzed * = per Reclamation Standard (19.15.29.13.D(1) NMAC)

•

APPENDIX A FORM C141

State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr.

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Matador Resources	Contact Casey Snow		
Address 500 N Main St Suite 1Roswell NM 88201	Telephone No. (972) 371-5439		
Facility Name Caudill # 002	Facility Type Oil Well		

Surface Owner

Mineral Owner

API No. 30-025-30406

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	8	16S	37E	1980	FSL	810	FWL	Lea

Latitude_32.9348221___ Longitude_ ,-103.278389 ___

NATURE OF RELEASE

Type of Release overflow of produced water tank	Volume of Release ~56 barrels	Volume Re	ecovered 35 barrels
Source of Release Recirculation pump	Date and Hour of Occurrence	Date and H	lour of Discovery August 24,
	August 24, 2016	2016 9am	
Was Immediate Notice Given?	If YES, To Whom?		
x Yes No Not	Catherine Green		
Required			
By Whom? Rickie Anguiano	Date and Hour August 24, 2016 1	0am	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	
\Box Yes x \Box No			
If a Watercourse was Impacted Describe Fully *			
If a watercourse was impacted, Describe Funy.			
Describe Cause of Problem and Remedial Action Taken.*Connection br	oke to water dump valve. Gas lost on	treater, circula	ating pump pumped oil out of
oil tank to treater putting excess fluid in water tank.			
Describe Area Affected and Cleanup Action Taken.*			
Leak was contained in containment area. Excess fluid was vacuumed un	and removed Soil containing unsatis	factory levels	of BTEX DROs and
chlorides will be removed and replaced. See attached	and removed. Son containing unsaus	lactory levels	of BTEA, DROS, and
enformes will be removed and replaced. See addened.			
I hereby certify that the information given above is true and complete to	the best of my knowledge and underst	and that pursu	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release	notifications and perform corrective ad	ctions for relea	ases which may endanger
public health or the environment. The acceptance of a C-141 report by t	he NMOCD marked as "Final Report"	does not relie	ve the operator of liability
should their operations have failed to adequately investigate and remedia	ate contamination that pose a threat to	ground water,	surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of respon	sibility for co	mpliance with any other
federal, state, or local laws and/or regulations.			
	OIL CONSER	VATION I	DIVISION
G . A			
Signature:			
Approved by Environmental Specialist:			
Printed Name: Casey Snow			
Title: Manager Regulatory Environmental & Safety	Approval Date:	Expiration D	late.
The manager Regulatory, Environmental, & Salety		Expiration D	
E-mail Address: csnow@matadorresources.com	Conditions of Approval:		
	conditions of Approval.		Attached
Date: August 2, 2017, 2017 Phone: (972) 371-5439			

* Attach Additional Sheets If Necessary

Received by OCD: 12/7/2022 10:45:59 AM

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 Page 15 of 63

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

)

Incident ID	
District RP	1RP-4418
Facility ID	
Application ID	A

Release Notification

Responsible Party

Responsible Party Matador Resources Company	OGRID 228937
Contact Name: John Hurt	Contact Telephone 972-371-5200
Contact email Jhurt@matadorresources.com	Incident # (assigned by OCD) 1RP-4418
Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	

Location of Release Source

Latitude 32.9348221

Longitude <u>-103.278389</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Caudill #002	Site Type oil well
Date Release Discovered 8/24/2016	API# (if applicable) 30-025-30406

Unit Letter	Section	Township	Range	County
L	8	16S	37E	Lea

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 56	Volume Recovered (bbls) 35
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	×	
Cause of Release		

Cause of Release

Equipment failure (recirculation pump) causing excess fluid in the produced water tank

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? >25							
🛛 Yes 🗌 No								
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. To NMOCD by Catherine Greene on 8/24/2016								
Initial Response								

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

The source of the release has been stopped.
I The impacted area has been secured to protect human health and the environment.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed and managed appropriately.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: John Hurt
Al 1/2 //2
Signature: Date: <u>6/24//9</u>
email: JHurt@matadorresources.com Telephone: 972-371-5499
OCD Only
Received by: Date:

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>54</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖾 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖾 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🛛 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

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

Data table of soil contaminant concentration data

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

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

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: John Hurt **Title: RES Specialist** Date: 6/24/19 Signature: Telephone: 972-371-5499 email: JHurt@matadorresources.com **OCD Only** Jocelyn Harimon Date: 12/07/2022 Received by:

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) N/A

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Hurt Title: RES Specialist
Signature: Date: Date:
email: JHurt@matadorresources.com Telephone: 972-371-5499
OCD Only
Received by: Jocelyn Harimon Date: 12/07/2022
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and
remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible
party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Ashlay Maxwell Date: 2/03/2023
Printed Name: Astriey iviaxwell Title: Environmental Specialist

APPENDIX B NMOSE WELLS REPORT

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD I been repla O=orphar C=the file closed)	nas aced, ned, is	(qua (qua	arter	s ar s ar	e 1= e sn	=NW 2	2=NE 3 st to lar	3=SW 4=SE gest) (N	E) AD83 UTM in m	eters)	(In feet)	
	PC	D	-	_	_									
POD Number	Su Code bas	b- sin Cour	Q 1tv 64	Q 16	Q 4 §	Sec	Tws	Rna	x	Y	Distance	Depth Well	Depth Water	Water Column
L 05621	L	. LE			3	08	16S	37E	661147	3645185* 🌍	271	94	60	34
L 10903	L	. LE			3	08	16S	37E	661147	3645185* 🌍	271	128	60	68
<u>L 10363</u>	L	. LE	1	2	3	08	16S	37E	661235	3645486* 🌍	301	156	50	106
L 10364	L	. LE	1	2	3	08	16S	37E	661235	3645486* 🔵	301	112	55	57
L 14276 POD1	L	. LE	2	3	3	80	16S	37E	660993	3645027 🌍	351	155	60	95
L 00823	L	. LE		2	4	07	16S	37E	660526	3645376* 🌍	427	105	47	58
L 10230	L	. LE	4	3	3	08	16S	37E	661045	3644883* 🌍	501	100	51	49
L 11615	L	. LE	2	4	3	08	16S	37E	661444	3645085* 🌍	570	165		
L 14120 POD1	L	. LE	3	4	3	08	16S	37E	661246	3644840 🌍	610	186	70	116
L 10559	L	. LE			1	08	16S	37E	661128	3645985* 🌍	633	90		
L 10559 POD2	L	. LE			1	80	16S	37E	661128	3645985* 🌍	633	113		
L 10561	L	. LE	3	2	1	80	16S	37E	661217	3646087* 🌍	757	120	60	60
L 12166 POD1	L	. LE	3	2	1	80	16S	37E	661267	3646075 🌍	766	193		
L 13540 POD1	R L	. LE	3	2	1	80	16S	37E	661203	3646104 🌍	769	128	60	68
L 13540 POD2	L	. LE	3	1	2	08	16S	37E	661547	3645991 🌍	854	202	120	82
L 00702 S	L	. LE	3	2	2	07	16S	37E	660410	3646077* 🌕	886	120	40	80
L 10124	L	. LE		2	1	17	16S	37E	661347	3644580* 🌕	888	157	70	87
L 10601	L	. LE	1	1	1	08	16S	37E	660816	3646283* 😜	917	120	120	0
L 09568	L	. LE		3	2	07	16S	37E	660110	3645770* 🌍	931	150	42	108
L 09630	L	. LE		3	2	07	16S	37E	660110	3645770* 🌍	931	105	68	37
L 13621 POD1	L	. LE	4	1	2	07	16S	37E	660208	3646006 🌍	975	155	63	92
<u>L 09680</u>	L	. LE			1	17	16S	37E	661150	3644372* 🌍	1023	144		
<u>L 00702</u>	L	. LE		1	2	07	16S	37E	660105	3646171* 🌍	1162	118		
L 01889 POD1	L	. LE		1	2	07	16S	37E	660105	3646171* 🌍	1162	90	36	54
L 09276	L	. LE		1	2	07	16S	37E	660105	3646171* 🌍	1162	115	56	59
<u>L 08165</u>	L	. LE	2	1	2	07	16S	37E	660204	3646270* 🌍	1166	103	58	45
*UTM location was derived f	from PLSS - s	see Help												

11/8/18 2:22 PM

Page 21 of 63

Received by OCD: 12/7/2022 10:45:59 AM

water right file.)

been replaced, O=orphaned, C=the file is

closed)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

		POD Sub-		QQ	Q	_	_					Depth	Depth	Water
POD Number	Code	basin	County	64 16	5 4	Sec 07	Tws	Rng 37E	X 659794	Y 3645553* 🥌	Distance	Well	Water	Column
L 00703	R	L	LE			07	16S	37E	659794	3645553*	1173	125		
L 00703 POD4		L	LE			07	16S	37E	659794	3645553* 🥌	1173	100		
L 00703 S		L	LE			07	16S	37E	659794	3645553* 🥃	1173	93	60	33
L 00703 S	R	L	LE			07	16S	37E	659794	3645553* 🥃	1173	93	60	33
<u>L 00824</u>		L	LE			07	16S	37E	659794	3645553* 🌍	1173	135	80	55
<u>L 00824</u>	R	L	LE			07	16S	37E	659794	3645553* 🌍	1173	135	80	55
L 04669		L	LE			07	16S	37E	659794	3645553* 🌍	1173	100	75	25
L 06852		L	LE	4	- 1	07	16S	37E	659705	3645763* 🌍	1307	90	65	25
L 13622 POD1		L	LE	1 2	2 1	08	16S	37E	659930	3646356 🌍	1417	190		
L 13910 POD1		L	LE	2 2	2 1	07	16S	37E	659783	3646285 🌍	1482	169	60	109
L 03479		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	85	15	70
L 04853		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	88	78	10
L 13718 POD1		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	92	44	48
L 13719 POD1		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	92	44	48
L 13720 POD1		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	92	46	46
L 13721 POD1		L	LE		1	07	16S	37E	659385	3645956* 🔵	1672	80	45	35
L 13722 POD1	R	L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	80	45	35
L 13690 POD1		L	LE	2 1	1	07	16S	37E	659459	3646293 🌍	1753	164	60	104
										Avera	ge Depth to	Water:	60	feet
											Minimum	Depth:	15	feet
											Maximum	Depth:	120	feet
Record Count: 45														
UTMNAD83 Radius	Search	(in me	ters):											

Easting (X): 660953.85

Northing (Y): 3645376.3

Radius: 1800

*UTM location was derived from PLSS - see Help

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

APPENDIX C SAMPLING PROTOCOL



Sampling Protocol

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations on the Wabash 20 Fed Com #1H Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type, the release being contained within a bermed area thus reducing the possibility of migration, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of fourteen (14) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

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

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

APPENDIX D LABORATORY ANALYTICAL REPORTS



October 19, 2016

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

RE: Caudill #2

OrderNo.: 1610720

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/14/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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 #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

.

Hall Environmental Analysi	Analytical Report Lab Order 1610720 Date Reported: 10/19/2016									
CLIENT:Souder, Miller & AssociatesProject:Caudill #2Lab ID:1610720-001	Client Sample ID: L1 Collection Date: 8/24/2016 2:00:00 PM Matrix: SOIL Received Date: 10/14/2016 8:45:00 AM									
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S				Anal	/st: TOM			
Diesel Range Organics (DRO)	65	9.8	н	mg/Kg	1	10/19/2016 12:22:26	AM 28076			
Motor Oil Range Organics (MRO)	83	49	н	mg/Kg	1	10/19/2016 12:22:26	AM 28076			
Surr: DNOP	103	70-130	Н	%Rec	1	10/19/2016 12:22:26	AM 28076			
EPA METHOD 8015D: GASOLINE RANG	GE					Anal	/st: NSB			
Gasoline Range Organics (GRO)	ND	4.7	н	mg/Kg	1	10/18/2016 7:43:16 l	PM 28072			
Surr: BFB	85.1	68.3-144	н	%Rec	1	10/18/2016 7:43:16 I	PM 28072			

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method B	lank
	D	Sample Diluted Due to Matrix	E Value above quantitation range		
	H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit		J	Analyte detected below quantitation limits	Page 1 of 6
			Р	Sample pH Not In Range	I uge I of o
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	as specified

Released to Imaging: 2/3/2023 8:46:29 AM

.

Analytical Report Lab Order 1610720

Hall Environmental Analysis Laborator	y, Inc. Date Reported: 10	/19/2016

CLIENT: Souder, Miller & Associates	Client Sample ID: L2										
Project: Caudill #2	Collection Date: 8/24/2016 2:00:00 PM										
Lab ID: 1610720-002	Matrix:	SOIL		Received Date: 10/14/2016 8:45:00 AM							
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	s				Analyst	: том				
Diesel Range Organics (DRO)	18000	1000	Н	mg/Kg	100	10/17/2016 8:49:01 PM	28076				
Motor Oil Range Organics (MRO)	12000	5000	Н	mg/Kg	100	10/17/2016 8:49:01 PM	28076				
Surr: DNOP	0	70-130	SH	%Rec	100	10/17/2016 8:49:01 PM	28076				
EPA METHOD 8015D: GASOLINE RANG	θE					Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	240	ΗD	mg/Kg	50	10/18/2016 8:07:22 PN	28072				
Surr: BFB	86.3	68.3-144	ΗD	%Rec	50	10/18/2016 8:07:22 PM	28072				
EPA METHOD 8021B: VOLATILES						Analyst	: NSB				
Benzene	ND	1.2	ΗD	mg/Kg	50	10/18/2016 8:07:22 PN	28072				
Toluene	ND	2.4	ΗD	mg/Kg	50	10/18/2016 8:07:22 PM	28072				
Ethylbenzene	ND	2.4	ΗD	mg/Kg	50	10/18/2016 8:07:22 PM	28072				
Xylenes, Total	ND	4.8	ΗD	mg/Kg	50	10/18/2016 8:07:22 PM	28072				
Surr: 4-Bromofluorobenzene	100	80-120	ΗD	%Rec	50	10/18/2016 8:07:22 PM	28072				

c tion. 1.1 • 1.12 CI 100.1 tion info c 00.0

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	Blank
	D	Sample Diluted Due to Matrix	Due to Matrix E Value above quantitation range		
	H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit		J	Analyte detected below quantitation limits	Page 2 of 6
			Р	Sample pH Not In Range	1 uge 2 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	it as specified

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

Caudill #2 1610720-003

.

Analytical Report Lab Order 1610720

Hall Environmental Analysis Laboratory, Inc.	

Date Reported: 10/19/2016

	Client Sample ID: L3
	Collection Date: 8/24/2016 2:00:00 PM
Matrix: SOIL	Received Date: 10/14/2016 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6				Analys	t: TOM
Diesel Range Organics (DRO)	5900	97	н	mg/Kg	10	10/17/2016 9:34:59 PN	1 28076
Motor Oil Range Organics (MRO)	4400	480	Н	mg/Kg	10	10/17/2016 9:34:59 PN	1 28076
Surr: DNOP	0	70-130	SH	%Rec	10	10/17/2016 9:34:59 PN	1 28076
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	250	ΗD	mg/Kg	50	10/18/2016 8:31:28 PN	1 28072
Surr: BFB	84.8	68.3-144	ΗD	%Rec	50	10/18/2016 8:31:28 PN	1 28072

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Client:	Souder, N	Miller & As	sociate	es							
Project:	Caudill #	2									
Sample ID	LCS-28085	SampTy	ne. I C	s	Tes	tCode: F	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:		Botch	D. 28	095			7092		, een namg	g	
	1035	Daton	ID. 20		r						
Prep Date:	10/17/2016	Analysis Da	ate: 10	0/17/2016	5	SeqNo: 1	183862	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7		5.000		94.5	70	130			
Sample ID	MB-28085	SampTy	vpe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 28	085	F	RunNo: 3	7982				
Prep Date:	10/17/2016	Analysis Da	ate: 10	0/17/2016	5	SeqNo: 1	183863	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.9		10.00		89.5	70	130			
Sample ID	MB-28076	SampTy	rpe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID Client ID:	MB-28076 PBS	SampTy Batch	′pe: ME ID: 28	3LK 076	Tes F	tCode: E RunNo: 3	PA Method 7981	8015M/D: Die	esel Range	e Organics	
Sample ID Client ID: Prep Date:	MB-28076 PBS 10/14/2016	SampTy Batch Analysis Da	rpe: ME ID: 28 ate: 1 (3LK 076 0/17/2016	Tes F S	tCode: E RunNo: 3 SeqNo: 1	PA Method 7981 184449	8015M/D: Die Units: mg/K	esel Rango g	e Organics	
Sample ID Client ID: Prep Date: Analyte	MB-28076 PBS 10/14/2016	SampTy Batch Analysis Da Result	rpe: ME ID: 28 ate: 1 (PQL	3LK 076 0/17/2016 SPK value	Tes F S SPK Ref Val	tCode: E RunNo: 3 SeqNo: 1 %REC	PA Method 7981 184449 LowLimit	8015M/D: Die Units: mg/K HighLimit	esel Rango g %RPD	e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (MB-28076 PBS 10/14/2016 Organics (DRO)	SampTy Batch Analysis Da Result ND	rpe: ME ID: 28 ate: 1 (<u>PQL</u> 10	3LK 076 0/17/2016 SPK value	Tes F S SPK Ref Val	tCode: E RunNo: 3 SeqNo: 1 %REC	PA Method 7981 184449 LowLimit	8015M/D: Die Units: mg/K HighLimit	g %RPD	e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang	MB-28076 PBS 10/14/2016 Organics (DRO) ge Organics (MRO)	SampTy Batch Analysis Da Result ND ND	rpe: ME ID: 28 ate: 1(<u>PQL</u> 10 50	BLK 076 0/17/2016 SPK value	Tes F SPK Ref Val	tCode: E RunNo: 3 SeqNo: 1 %REC	PA Method 7981 184449 LowLimit	8015M/D: Die Units: mg/K HighLimit	g %RPD	e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range Motor Oil Rang Surr: DNOP	MB-28076 PBS 10/14/2016 Organics (DRO) ge Organics (MRO)	SampTy Batch Analysis Da Result ND ND 8.6	rpe: MB ID: 28 ate: 10 PQL 10 50	BLK 076 0/17/2016 SPK value 10.00	Tes F S SPK Ref Val	tCode: E RunNo: 3 SeqNo: 1 %REC 85.7	PA Method 7981 184449 LowLimit	8015M/D: Die Units: mg/K HighLimit 130	g %RPD	e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP	MB-28076 PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076	SampTy Batch Analysis Da Result ND ND 8.6 SampTy	rpe: MB ID: 28 ate: 10 PQL 10 50 rpe: LC	BLK 076 0/17/2016 SPK value 10.00	Tes F SPK Ref Val Tes	tCode: E RunNo: 3 SeqNo: 1 %REC 85.7 tCode: E	PA Method 7981 184449 LowLimit 70 PA Method	8015M/D: Die Units: mg/K HighLimit 130 8015M/D: Die	g %RPD seel Rango	e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID:	MB-28076 PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076 LCSS	SampTy Batch Analysis Da Result ND ND 8.6 SampTy Batch	rpe: MB ID: 28 ate: 10 PQL 10 50 rpe: LC ID: 28	BLK 076 0/17/2016 SPK value 10.00 S 076	Tes F SPK Ref Val Tes F	tCode: E RunNo: 3 SeqNo: 1 %REC 85.7 tCode: E RunNo: 3	PA Method 7981 184449 LowLimit 70 PA Method 8007	8015M/D: Die Units: mg/K HighLimit 130 8015M/D: Die	g %RPD	e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date:	MB-28076 PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076 LCSS 10/14/2016	SampTy Batch Analysis Da Result ND ND 8.6 SampTy Batch Analysis Da	rpe: ME ID: 28 ate: 10 PQL 10 50 rpe: LC ID: 28 ate: 10	BLK 076)/17/2016 SPK value 10.00 SS 076 0/18/2016	Tes F SPK Ref Val Tes F S	tCode: E RunNo: 3 SeqNo: 1 %REC 85.7 tCode: E RunNo: 3 SeqNo: 1	PA Method 7981 184449 LowLimit 70 PA Method 8007 184792	8015M/D: Die Units: mg/K HighLimit 130 8015M/D: Die Units: mg/K	g %RPD esel Rango	e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte	MB-28076 PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076 LCSS 10/14/2016	SampTy Batch Analysis Da Result ND ND 8.6 SampTy Batch Analysis Da Result	rpe: ME ID: 28 ate: 10 PQL 10 50 rpe: LC ID: 28 ate: 10 PQL	BLK 076 0/17/2016 SPK value 10.00 SS 076 0/18/2016 SPK value	Tes F SPK Ref Val Tes F SPK Ref Val	tCode: E RunNo: 3 SeqNo: 1 %REC 85.7 tCode: E RunNo: 3 SeqNo: 1 %REC	PA Method 7981 184449 LowLimit 70 PA Method 8007 184792 LowLimit	8015M/D: Die Units: mg/K HighLimit 130 8015M/D: Die Units: mg/K HighLimit	g %RPD esel Range g %RPD	e Organics RPDLimit e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (MB-28076 PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076 LCSS 10/14/2016 Organics (DRO)	SampTy Batch Analysis Da Result ND ND 8.6 SampTy Batch Analysis Da Result 45	rpe: ME ID: 28 ate: 10 PQL 10 50 rpe: LC ID: 28 ate: 10 PQL 10	BLK 076 0/17/2016 SPK value 10.00 :S 076 0/18/2016 SPK value 50.00	Tes F SPK Ref Val Tes F SPK Ref Val 0	tCode: E RunNo: 3 SeqNo: 1 %REC 85.7 tCode: E RunNo: 3 SeqNo: 1 %REC 89.2	PA Method 7981 184449 LowLimit 70 PA Method 8007 184792 LowLimit 62.6	8015M/D: Die Units: mg/K HighLimit 130 8015M/D: Die Units: mg/K HighLimit 124	g %RPD esel Range g %RPD	e Organics RPDLimit e Organics RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 Detection Limit
- W Sample container temperature is out of limit as specified

1610720

19-Oct-16

WO#:

Page 4 of 6

Client: Soud Project: Caud	er, Miller & A ill #2	ssociate	es							
Sample ID MB-28072	Samp	Гуре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS Batch ID: 28072				RunNo: 38021						
Prep Date: 10/14/2016	Analysis [Date: 1	0/18/2016	S	SeqNo: 1	185981	Units: mg/H	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.1	68.3	144			
Sample ID LCS-28072	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batc	h ID: 28	072	R	unNo: 3	8021				
Prep Date: 10/14/2016	Analysis [Date: 1	0/18/2016	S	SeqNo: 1	185995	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	74.6	123			
Surr: BFB	930		1000		92.8	68.3	144			

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
- R RPD outside accepted recovery limits
- 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 Detection Limit
- W Sample container temperature is out of limit as specified

1610720

19-Oct-16

WO#:

Page 5 of 6

Client: Soude Project: Coudil	r, Miller & As	sociate	es							
Troject. Caudi	1#2									
Sample ID MB-28072	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: 28	072	F	RunNo: 3	8021				
Prep Date: 10/14/2016	Analysis Da	ate: 10	0/18/2016	S	SeqNo: 1	186010	Units: mg/k	٤g		
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	0.98		1.000		97.7	80	120			
Sample ID LCS-28072	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: 28	072	F	RunNo: 3	8021				
Prep Date: 10/14/2016	Analysis Da	ate: 10	0/18/2016	S	SeqNo: 1	186011	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	75.2	115			
Toluene	0.93	0.050	1.000	0	93.5	80.7	112			
Ethylbenzene	0.96	0.050	1.000	0	95.9	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	94.9	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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
- R RPD outside accepted recovery limits
- 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 Detection Limit
- W Sample container temperature is out of limit as specified

1610720

19-Oct-16

WO#:

Page 6 of 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com	Sam	ple Log-In C	heck List
Client Name: SMA-CARLSBAD V	ork Order Number: 1610720		RcptNo:	1
Received by/date:	· · · · · · · · · · · · · · · · · · ·			
Logged By: Michelle Garcia 10/1	4/2016 8:45:00 AM 🥠	Nurul Ga	num)	
Completed By: Michelle Garcia 10/1	4/2016 12:48:13 PM 1	Minul Ga	nun)	
Reviewed By: a.J (C	114116			
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🔽	No 🗌	Not Present	
3. How was the sample delivered?	UPS			
Log In				
4. Was an attempt made to cool the samples?	Yes 🔽	No 🗌	NA 🗌	
5. Were all samples received at a temperature of >	0° C to 6.0°C Yes ☑	No 🗌		
6. Sample(s) in proper container(s)?	Yes 🖌	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🖌	No 🗌		
8. Are samples (except VOA and ONG) properly pre-	served? Yes 🗹	No 🗌		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌	
10.VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials 🗹	
11, Were any sample containers received broken?	Yes	No 🗹	# of preserved	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗌	for pH: (<2 o	r >12 unless note
13. Are matrices correctly identified on Chain of Cust	ody? Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗌	Checked by	
(If no, notify customer for authorization.)	Yes 🗹	No 🗀		
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this o	rder? Yes	No 🗌	NA 🗹	
Person Notified: By Whom:	Date Date Via: eMail Phon	ne 🗌 Fax	🔲 In Person	
Regarding: Client Instructions:		· · · ·	······································	
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal In 1 1.7 Good Yes	act Seal No Seal Date Sig	ined By		

.

AL	JRΥ							(1	or N	2)	səlddu8 1jA									 ustin.	(sport.
Z	Ĕ																	 		 4	5	T L	ytical re
E S	R		7109	2																Ŧ	, ,	1	he anal
Z	0 M	Б	IM 87	-410	÷				(¥	0/-	im92) 0728					<u> </u>	 			 3	Ŧ	-2	ed on ti
20	Ā	ntal.c	ue, N	5-345	sənt					()	(VV) 80928							 		 S S	rsa		y notati
	S	nmer	nerq	505	s Re	(+	S'BO	1 280	8 / s	ide:	otry Pestic		-		 		 	 		аŅ	Ŕ	F	clear
Z	SI	Jviro	Nbuq	Fax	alysis	('0	S'O	9-°OI	V°°C		D.T) anoinA						 			 ů V	2	5	will be
لىكى است		nallei	۹. ۱	5	Ana			(HA		ANY) 0128						 		-	 D	Ē		ed dats
AL	Z	ww.†	s NE	-397		प्रेन	1-Su			g po	EDB (Wetho		1		 		 			 Ţ		ź	ontracte
I	A	5	awkin	5-345		6	MK.	<u>(</u>	.81	4 P	TPH (Metho		د 2		 					 L,	תמ	2	/ sub-ci
Г			Ц Н	l. 50!		(jəs	eid	es)e	191)8 F	odt∋M H9T	×	×	\times	 					>	Ш	9	ty. Any
r			490	Te		(ʎju	0 586	э) на	⊥ +	BE	BTEX + MT									narks	¢		ossibili
	<u>ו</u> ן ו	: 				()	.208)	s'8M	⊥+	BE	тм +(хэта)	Х							Ren	. –		f this p
			せこ		-		Med -		No	Loc	HEAL NO.	8	600	603						Date Time	Date Time		This serves as notice o
	🗆 Rush		adell	i.		ger:	the Me	hullian	⊠ Yes	perature:	Preservative Type				 					June 10			ccredited laboratories.
_	E Standard	Project Name	Ca	Project #:		Project Mana	Mr.	Sampler:	On Ice:	Sample Tem	Container Type and #	102		>		-				Received by:	Received by:		contracted to other a
וטעס ואסעיע	Carbad							□ Level 4 (Full Validation)			Sample Request ID	17	62	23						Aby:	d by:		tted to Hail Environmental may be sub
01-040	1A - (□ Other		Matrix	50-1		~						Relinquishe	Relinquishe		samples submi
I all'	5		\ddress:			Fax#:	ackage:	lard ation:	<u>م</u>	(Type)	Time	2,00		2						Time:	Time:		f necessary.
כ Re	lient:	ed to	ailing A	ing.	# euou	202	A 20/4	Stand			Date	37-76	<u> </u>	D)ate: 3-1 (6	Date:		<u>ب</u>

.

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller	& Associates	Client Sample ID: L1										
Project: Caudill 2		Collection Date: 6/30/2017 12:00:00 PM										
Lab ID: 1707B17-001	N	Matrix: MEOH (SOIL) Received					Date: 7/21/2017 9:45:00 AM					
Analyses	Re	sult	PQL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 8015M/D:	DIESEL RANGE OR	GANIC	s				Analyst	том				
Diesel Range Organics (DF	RO)	2700	99	н	mg/Kg	10	7/21/2017 1:11:20 PM	32943				
Surr: DNOP		0	70-130	SH	%Rec	10	7/21/2017 1:11:20 PM	32943				
EPA METHOD 8015D: G	ASOLINE RANGE						Analyst:	NSB				
Gasoline Range Organics (GRO)	ND	3.9	н	mg/Kg	1	7/21/2017 12:31:14 PM	R44391				
Surr: BFB		84.5	54-150	н	%Rec	1	7/21/2017 12:31:14 PM	R44391				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blan	k
	D	Sample Diluted Due to Matrix RELIMIN	A	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	1 . 6

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- J Analyte detected below quantitation limits Page 1 of 0
- P Sample pH Not In RangeRL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Project: Caudill 2 Lab ID: 1707B17-002	Matrix:	Client Sample ID: L2 Collection Date: 6/30/2017 1:00:00 PM Matrix: MEOH (SOIL) Received Date: 7/21/2017 9:45:00 AM										
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch					
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6				Analyst	TOM					
Diesel Range Organics (DRO)	15	9.6	Н	mg/Kg	1	7/21/2017 2:44:46 PM	32943					
Surr: DNOP	87.0	70-130	н	%Rec	1	7/21/2017 2:44:46 PM	32943					
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	NSB					
Gasoline Range Organics (GRO)	ND	4.8	Н	mg/Kg	1	7/21/2017 12:55:14 PM	R44391					
Surr: BFB	80.7	54-150	н	%Rec	1	7/21/2017 12:55:14 PM	R44391					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method	Blank	
	D	Sample Diluted Due to Matrix RELIVII	NAI	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J Analyte detected below quantitation limits Pace		
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	Fage 2 01 0	
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit		

- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

Date Reported:

Hall	Environmental	Analysis	Labora	tory, Inc.

Client Sample ID: L3 CLIENT: Souder, Miller & Associates Collection Date: 6/30/2017 2:00:00 PM **Project:** Caudill 2 Matrix: MEOH (SOIL) Received Date: 7/21/2017 9:45:00 AM Lab ID: 1707B17-003 PQL Qual Units **DF** Date Analyzed Batch Analyses Result Analyst: TOM EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 10 7/21/2017 1:55:46 PM 1900 32943 Diesel Range Organics (DRO) 96 н mg/Kg Surr: DNOP 0 70-130 SH 10 7/21/2017 1:55:46 PM 32943 %Rec

	2058						
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	н	mg/Kg	1	7/21/2017 1:19:22 PM	R44391
Surr: BFB	84.4	54-150	н	%Rec	1	7/21/2017 1:19:22 PM	R44391

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	TAB	Analyte detected in the associated Method	Blank				
	D	Sample Diluted Due to Matrix KELINIIN A Value above quantitation range							
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 3 of (
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range					
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit					
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limi	t as specified				

Date Reported:

Hall	Environmental	Analysis	Laboratory,	Inc.
		•		

CLIENT: Souder, Miller & Associates			C	lient Sampl	e ID: L4		
Project: Caudill 2				Collection 1	Date: 6/3	0/2017 3:00:00 PM	
Lab ID: 1707B17-004	Matrix: 1	MEOH (SO	OIL)	Received I	Date: 7/2	1/2017 9:45:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	1				Analyst	том
Diesel Range Organics (DRO)	200	96	н	mg/Kg	10	7/21/2017 2:17:50 PM	32943
Surr: DNOP	0	70-130	SH	%Rec	10	7/21/2017 2:17:50 PM	32943
EPA METHOD 8015D: GASOLINE RAM	IGE					Analys	NSB
Gasoline Range Organics (GRO)	ND	4.3	Н	mg/Kg	1	7/21/2017 1:43:32 PM	R44391
Surr: BFB	85.7	54-150	н	%Rec	1	7/21/2017 1:43:32 PM	R44391

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method I	Blank
	D	Sample Diluted Due to Matrix	A	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 4 of 0
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 age 4 01 0
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limi	t as specified



June 12, 2019

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

RE: Caudill 5 27

OrderNo.: 1905E76

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/31/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 05, 2019.

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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT:	Souder, Miller & Associates		C	ient Sample I	D: L1	-Surface	
Project:	Caudill 5 27		(Collection Dat	t e: 5/2	27/2019 8:50:00 AM	
Lab ID:	1905E76-001	Matrix: SOIL		Received Dat	t e: 5/3	31/2019 8:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	: smb
Chloride		ND	60	mg/Kg	20	6/7/2019 12:08:07 PM	45437
EPA MET	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2019 1:50:49 PM	45333
Motor Oi	l Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 1:50:49 PM	45333
Surr: I	DNOP	96.7	70-130	%Rec	1	6/4/2019 1:50:49 PM	45333
EPA MET	THOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	4.6	mg/Kg	1	6/3/2019 2:49:38 PM	45310
Surr: I	BFB	98.9	73.8-119	%Rec	1	6/3/2019 2:49:38 PM	45310
EPA MET	THOD 8021B: VOLATILES					Analyst	: NSB
Benzene)	ND	0.023	mg/Kg	1	6/3/2019 2:49:38 PM	45310
Toluene		ND	0.046	mg/Kg	1	6/3/2019 2:49:38 PM	45310
Ethylben	zene	ND	0.046	mg/Kg	1	6/3/2019 2:49:38 PM	45310

ND

111

0.092

80-120

mg/Kg

%Rec

1

1

6/3/2019 2:49:38 PM

6/3/2019 2:49:38 PM

45310

45310

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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

Page 1 of 12

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

6/3/2019 6:22:36 PM

45310

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L1	-1.5'	
Project: Caudill 5 27		(Collection Dat	e: 5/2	27/2019 9:00:00 AM	
Lab ID: 1905E76-002	Matrix: SOIL		Received Dat	e: 5/3	31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 12:20:32 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 2:12:45 PM	45333
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 2:12:45 PM	45333
Surr: DNOP	90.4	70-130	%Rec	1	6/4/2019 2:12:45 PM	45333
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Surr: BFB	94.3	73.8-119	%Rec	1	6/3/2019 6:22:36 PM	45310
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Toluene	ND	0.050	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2019 6:22:36 PM	45310

107

80-120

%Rec

1

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

Qualifiers:

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

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

Page 2 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates Project: Caudill 5 27		Cl	ient Sample II Collection Dat): L2	2-Surface	
Lab ID: 1905E76-003	Matrix: SOIL	·	Received Dat	e: 5/3	31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 12:57:45 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 2:34:48 PM	45333
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 2:34:48 PM	45333
Surr: DNOP	70.5	70-130	%Rec	1	6/4/2019 2:34:48 PM	45333
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Surr: BFB	91.0	73.8-119	%Rec	1	6/3/2019 6:46:09 PM	45310
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Toluene	ND	0.047	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Ethylbenzene	ND	0.047	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Xylenes, Total	ND	0.094	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/3/2019 6:46:09 PM	45310

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

Qualifiers:

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

в Analyte detected in the associated Method Blank

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

Page 3 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L2	2-2'	
Project: Caudill 5 27		(Collection Date	e: 5/2	27/2019 10:15:00 AM	
Lab ID: 1905E76-004	Matrix: SOIL		Received Date	e: 5/3	31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 1:34:58 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2019 2:56:59 PM	45333
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/4/2019 2:56:59 PM	45333
Surr: DNOP	122	70-130	%Rec	1	6/4/2019 2:56:59 PM	45333
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Surr: BFB	91.2	73.8-119	%Rec	1	6/3/2019 7:56:47 PM	45310
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Toluene	ND	0.046	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Ethylbenzene	ND	0.046	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Xylenes, Total	ND	0.093	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/3/2019 7:56:47 PM	45310

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 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT:	Souder, Miller & Associates		Cl	ient Sample II	D: L3	3-Surface	
Project:	Caudill 5 27		(Collection Dat	e: 5/2	27/2019 10:50:00 AM	
Lab ID:	1905E76-005	Matrix: SOIL		e: 5/3	/31/2019 8:50:00 AM		
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: smb
Chloride		ND	60	mg/Kg	20	6/7/2019 1:47:23 PM	45437
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: BRM
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2019 3:19:08 PM	45333
Motor O	il Range Organics (MRO)	ND	50	mg/Kg	1	6/4/2019 3:19:08 PM	45333
Surr:	DNOP	87.8	70-130	%Rec	1	6/4/2019 3:19:08 PM	45333
EPA ME	THOD 8015D: GASOLINE RAM	IGE				Analys	t: NSB
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Surr:	BFB	93.8	73.8-119	%Rec	1	6/3/2019 8:20:20 PM	45310
EPA ME	THOD 8021B: VOLATILES					Analys	t: NSB
Benzene	9	ND	0.025	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Toluene		ND	0.050	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Ethylber	izene	ND	0.050	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Xylenes,	, Total	ND	0.10	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Surr:	4-Bromofluorobenzene	106	80-120	%Rec	1	6/3/2019 8:20:20 PM	45310

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

Qualifiers:

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

в Analyte detected in the associated Method Blank

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

Page 5 of 12

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT:	Souder, Miller & Associates	Client Sample ID: L4-Surface									
Project:	Caudill 5 27		(Collection Dat	e: 5/2	27/2019 11:10:00 AM					
Lab ID:	1905E76-007	Matrix: SOIL		Received Date	e: 5/3	31/2019 8:50:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	THOD 300.0: ANIONS					Analys	t: smb				
Chloride		ND	60	mg/Kg	20	6/7/2019 2:37:01 PM	45437				
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: BRM				
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 4:03:05 PM	45333				
Motor Oi	il Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 4:03:05 PM	45333				
Surr: I	DNOP	95.1	70-130	%Rec	1	6/4/2019 4:03:05 PM	45333				
EPA MET	THOD 8015D: GASOLINE RAN	GE				Analys	t: NSB				
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2019 9:07:23 PM	45310				
Surr: I	BFB	96.2	73.8-119	%Rec	1	6/3/2019 9:07:23 PM	45310				
EPA MET	THOD 8021B: VOLATILES					Analys	t: NSB				
Benzene	9	ND	0.024	mg/Kg	1	6/3/2019 9:07:23 PM	45310				
Toluene		ND	0.049	mg/Kg	1	6/3/2019 9:07:23 PM	45310				
Ethylben	izene	ND	0.049	mg/Kg	1	6/3/2019 9:07:23 PM	45310				
Xylenes,	Total	ND	0.097	mg/Kg	1	6/3/2019 9:07:23 PM	45310				
Surr: 4	4-Bromofluorobenzene	108	80-120	%Rec	1	6/3/2019 9:07:23 PM	45310				

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

Qualifiers:

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

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

RL Reporting Limit Page 6 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates	Client Sample ID: SW1									
Project: Caudill 5 27		(Collection Dat	e: 5/2	27/2019 12:00:00 PM					
Lab ID: 1905E76-009	Matrix: SOIL		Received Dat	e: 5/3	31/2019 8:50:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analysi	: smb				
Chloride	ND	60	mg/Kg	20	6/7/2019 3:01:50 PM	45437				
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/4/2019 4:47:01 PM	45333				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/4/2019 4:47:01 PM	45333				
Surr: DNOP	83.1	70-130	%Rec	1	6/4/2019 4:47:01 PM	45333				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2019 9:54:41 PM	45310				
Surr: BFB	94.5	73.8-119	%Rec	1	6/3/2019 9:54:41 PM	45310				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.025	mg/Kg	1	6/3/2019 9:54:41 PM	45310				
Toluene	ND	0.049	mg/Kg	1	6/3/2019 9:54:41 PM	45310				
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2019 9:54:41 PM	45310				
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2019 9:54:41 PM	45310				
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	6/3/2019 9:54:41 PM	45310				

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

Qualifiers:

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

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

Page 7 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT:	Souder, Miller & Associates	Client Sample ID: SW2									
Project:	Caudill 5 27		(Collection Date	e: 5/2	27/2019 12:15:00 PM					
Lab ID:	1905E76-010	Matrix: SOIL		Received Date	e: 5/3	31/2019 8:50:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst	: smb				
Chloride		ND	60	mg/Kg	20	6/7/2019 3:14:14 PM	45437				
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Ra	ange Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 5:08:59 PM	45333				
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 5:08:59 PM	45333				
Surr: E	DNOP	96.4	70-130	%Rec	1	6/4/2019 5:08:59 PM	45333				
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	: NSB				
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	6/3/2019 10:18:27 PM	45310				
Surr: E	3FB	94.3	73.8-119	%Rec	1	6/3/2019 10:18:27 PM	45310				
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB				
Benzene		ND	0.024	mg/Kg	1	6/3/2019 10:18:27 PM	45310				
Toluene		ND	0.047	mg/Kg	1	6/3/2019 10:18:27 PM	45310				
Ethylben	zene	ND	0.047	mg/Kg	1	6/3/2019 10:18:27 PM	45310				
Xylenes,	Total	ND	0.095	mg/Kg	1	6/3/2019 10:18:27 PM	45310				
Surr: 4	I-Bromofluorobenzene	107	80-120	%Rec	1	6/3/2019 10:18:27 PM	45310				

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

Qualifiers:

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

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

Page 8 of 12

Client: Project:	S	Souder, Mil Caudill 5 27	ler & A 7	ssociat	es							
Sample ID:	MB-4543	7	SampT	Гуре: М	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS		Batcl	h ID: 45	437	F	unNo: 60)474				
Prep Date:	6/7/2019	9 A	nalysis D	Date: 6	/7/2019	S	eqNo: 20	047364	Units: mg/K	g		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			ND	1.5								
Sample ID:	LCS-454	37	SampT	Гуре: L(cs	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS		Batcl	h ID: 45	437	F	unNo: 60)474				
Prep Date:	6/7/2019	9 A	nalysis D	Date: 6	/7/2019	S	eqNo: 20)47365	Units: mg/K	g		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			15	1.5	15.00	0	97.3	90	110			

- * 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 12

1905E76

12-Jun-19

WO#:

Client: Souce Project: Cauce	der, Miller & Ass dill 5 27	sociate	es							
Sample ID: LCS-45333	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 45	333	F	RunNo: 6	0392				
Prep Date: 6/3/2019	Analysis Da	te: 6/	4/2019	5	SeqNo: 20)42252	Units: mg/k	ζg		
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	4.9		5.000		97.8	70	130			
Sample ID: MB-45333	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 45	333	F	RunNo: 60)392				
Prep Date: 6/3/2019	Analysis Da	te: 6/	4/2019	S	SeqNo: 20	042253	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRC) ND	50								
Surr: DNOP	10		10.00		105	70	130			

Qualifiers:

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

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

Page 10 of 12

1905E76

12-Jun-19

WO#:

Client:	Souder, N	liller & Ass	sociate	es							
Project:	Caudill 5	27									
Sample ID:	1905E76-001AMS	SampTy	pe: M\$	3	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	L1-Surface	Batch	ID: 45	310	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis Da	ite: 6/	3/2019	S	SeqNo: 2	041211	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	19	4.8	23.97	0	81.2	69.1	142			
Surr: BFB		1000		958.8		109	73.8	119			
Sample ID:	1905E76-001AMSI) SampTy	pe: M S	SD	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	L1-Surface	Batch	ID: 45	310	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis Da	ite: 6/	3/2019	5	SeqNo: 2	041212	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	21	4.9	24.34	0	85.6	69.1	142	6.77	20	
Surr: BFB		1000		973.7		105	73.8	119	0	0	
Sample ID:	LCS-45303	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: 45	303	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis Da	ite: 6/	3/2019	5	SeqNo: 2	041225	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		109	73.8	119			
Sample ID:	MB-45303	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	ID: 45	303	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis Da	ite: 6/	3/2019	5	SeqNo: 2	041226	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		990		1000		98.8	73.8	119			

Qualifiers:

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

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

1905E76

12-Jun-19

WO#:

Page 11 of 12

Client:	Souder, N	1iller & A	ssociate	es							
Project:	Caudill 5	27									
Sample ID:	1905E76-003AMS	Samp	Гуре: М \$	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	L2-Surface	Batc	h ID: 45	310	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis [Date: 6/	3/2019	5	SeqNo: 2	041235	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.80	0.025	0.9852	0	81.6	63.9	127			
Toluene		0.89	0.049	0.9852	0.01130	89.4	69.9	131			
Ethylbenzene		0.94	0.049	0.9852	0	95.3	71	132			
Xylenes, Total		2.9	0.099	2.956	0	96.7	71.8	131			
Surr: 4-Brom	nofluorobenzene	1.0		0.9852		106	80	120			
Sample ID:	1905E76-003AMSI) Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	L2-Surface	Batc	h ID: 45	310	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis [Date: 6/	3/2019	S	SeqNo: 2	041236	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.72	0.024	0.9434	0	76.8	63.9	127	10.4	20	
Toluene		0.84	0.047	0.9434	0.01130	87.6	69.9	131	6.30	20	
Ethylbenzene		0.90	0.047	0.9434	0	95.6	71	132	3.97	20	
Xylenes, Total		2.8	0.094	2.830	0	97.4	71.8	131	3.68	20	
Surr: 4-Brom	nofluorobenzene	1.0		0.9434		110	80	120	0	0	
Sample ID:	LCS-45303	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batc	h ID: 45	303	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis [Date: 6/	3/2019	5	SeqNo: 2	041246	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.1		1.000		108	80	120			
Sample ID:	MB-45303	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batc	h ID: 45	303	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis [Date: 6/	3/2019	S	SeqNo: 2	041247	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.1		1.000		110	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
- 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

WO#: 1905E76

12-Jun-19

	RONMENTAL YSIS RATORY	Hall Environ TEL: 505-34 Website: w	mental Analys 4901 Albuquerqı 5-3975 FAX: 5 vww.hallenviro	s Laborate Hawkins 1 e, NM 871 05-345-41 nmental.co	ory NE 09 Sa 07 om	ample	Log-In C	heck List
Client Name:	SMA-CARLSBAD	Work Order N	umber: 1905	E76		83	RcptNo:	1
Received By:	Jevon Campisi	5/31/2019 8:50:0	00 AM		Juan Camp	 ui		
Completed By:	Leah Baca	5/31/2019 9:46:2	24 AM		In F	Saca.		
Reviewed By:	DAD 5/31/19				Laurja			
Chain of Cus	stody							
1. Is Chain of C	ustody complete?		Yes	\checkmark	No 🗌	Not	Present	
2. How was the	sample delivered?							
Log In	ant mode to easily a second	- 0			м. Г	-		
J. Was an allen	npt made to cool the sample	S ?	Yes	V	NO L		NA 🗀	
4. Were all sam	ples received at a temperatu	re 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 tes	t(s)?	Yes		No 🗌]		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes	/	No 🗌]		
8. Was preserva	tive added to bottles?		Yes		No 🗹	•	NA 🗌	
9. VOA vials hav	ve zero headspace?		Yes [No 🗌	No VC	DA Vials 🔽	TG
10. Were any sar	mple containers received bro	ken?	Yes		No 🔽	#of p	reserved	= 13+1/19
11. Does paperwo	ork match bottle labels?		Yes		No 🗌	bottles	s checked	3 (3)
(Note discrepa	ancies on chain of custody)	of Quata du D	No.		Ne 🗆		(<2 or : Adjusted?	>12 unless noted)
13. Is it clear what	t analyses were requested?	of Custody?	Yes (7		יין נ ק		
14. Were all holdi (If no, notify c	ng times able to be met? ustomer for authorization.)		Yes	2	No 🗌] 0	Checked by:	
Special Handl	ling (if applicable)							
15. Was client no	otified of all discrepancies wi	th this order?	Yes		No		NA 🗹	
Person	Notified:	Da	ite			-		
By Who	om:	Via	a: 🗍 eMa	Pho	one 🗌 F	ax 🗌 In F	Person	
Regard	ing:							
Client I	nstructions:							

17. Cooler Information

ADDR- Carl Load Carl Land Carl Standard Patients Carl Project Name: Project Name: Project Name: Project Name: Project Name: Droject Name: Project Name: Project Name: Project Name: Droject Name: Droject Name: Project Name: Project Name: Droject Name: Droject Name: Droject Name: Name: Droject Name: Droject Name: Droject Name: <	Chain-	-of-CI	ustody Record	Turn-Around	Time:	-				IALL			Rol	NMEN	TAL	Receive
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9	MA -	Carlsbad	□ Standard Project Name	Rush	Saw				INAI	Ys	S	LAB	ORAT	OR	ed by OC
Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project #: Project#: Project#: <tr< td=""><td>Address</td><td></td><td></td><td>Caud</td><td>ション</td><td>27</td><td></td><td>4901</td><td>Hawk</td><td>ns NE</td><td>- Albu</td><td>duero</td><td>intal.con</td><td>n 1 87109</td><td></td><td>CD: 1</td></tr<>	Address			Caud	ション	27		4901	Hawk	ns NE	- Albu	duero	intal.con	n 1 87109		C D: 1
Examples Manager: Fisch: Fisch: Biolin: Televil 4 Full Validation) Manuel Sampler: Mini Biolin: Biolin: Televil 4 Full Validation) Mini Biolin: Conter Proposition Mini Biolin: Conter Proposition Mini Biolin: Mini Mini Mini Biolin: Mini Biolin: Mini Biolin: Mini Biolin: Mini Biolin:				Project #:				Tel.	505-34	5-3975	Ц	ax 50	5-345-4	107		2/7/2
Factific Factific * Redegic: * Redegic: * Redecide * Redecides: * Redecides: * Redecides: * Redecide: * Redecides: * Redecide: * Redecides: * Redecide: * Redecides: * Redecide: * Redecide: * Redecide: * Redcide: * Redcide: * Redcide: * Redcide: * Redcide: </td <td>¥:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Analys</td> <td>is Re</td> <td>duest</td> <td></td> <td></td> <td>2022</td>	¥:										Analys	is Re	duest			2022
Package: Database: Ballon: Internet (Full Validation) Ballon: Internet (Fullon) Ba	r Fax#:			Project Manaç	ger:	e e e e e e e e e e e e e e e e e e e	(1	(0	S.		†O		(ìn			<i>10:</i>
Lation: Az Compliance Sample: MZ: Ac: Other: Sample: MG: Ac: Other: MG: Sample: Ac: Other: MG: MG: Ac: Container Preservative MG: Main: Main: Sample: MG: Main: Sample: MG: MG: Main: Main: Main: MG: S:: Sample: MG: MG: Main: Main: MG: MG: S:: Sample: MG: MG: Main: Main: MG: MG: Main: MG: MG: MG: Main:	Package: dard		Level 4 (Full Validation)	Me	Lodie So	unjari	.208) s'	PCB's	0.00	SMISC	PO₄, S		I92dA\fr			45:59 A
AC Other On Los: Or Yes On Time Matrix Sample Name Container Preservative HEAL NO. Fine Time Matrix Sample Name Container Preservative HEAL NO. Fine Time Matrix Sample Name Container Preservative HEAL NO. Fine An Time Preservative HEAL NO. Preservative HEAL NO. Fine An Time Preservative HEAL NO. Preservative HEAL NO. Fine An Li-Surface An OOG BOOR PesticidesK Pine Li-Surface An OOU Preservative HEAL NO. Pine Li-Surface An OOU Preservative HEAL NO. Pine Li-Surface An OOU Preservative HEAL NO. Pine Li-Surface An OOU Preservative No. Pine Li-Surface An OOU Pine Pine Pine Li-Surface An OOU Pine Pine Pine Li-Surface An OOU Pine Pine Pine Li-Surface An	itation:	🗆 Az Co	ompliance	Sampler: M	25.		amt	אם / 280	(1.4	9728	' ⁷ ON		ləsə		ľ	M
Time Matrix Sample Name # of Coolers Matrix Time Matrix Sample Name Cooler Temposeners 2 °C Time Matrix Sample Name Cooler Temposeners 2 °C Sr Sample Name Container Preservative 0/05575 R: Sr Sample Name Type and # Type R: Sr Sample Name Container Preservative R: L1-Li baggy -000 Preservative N: U L1-Li baggy -000 Preservative N: U L2-3 baggy -000 Preservative N: U L2-3 baggy -000 Preservative N: U L2-3 baggy -000 Preservative N: L2-3 baggy -000 Preservative Preservative	AC	□ Othe		On Ice:	M Yes [ON L	. / 3	07 8\2£	204	s ol	1 's	(AC	(Pr			
Time Matrix Sample Name Cooler Temporene or: 2 % C Matrix Sample Name Cooler Temporene or: 2 % C Matrix Sample Name Matrix Sample Name Matrix Sample Name Container Preservative HEAL NO. Matrix Sample Name Container Preservative Matrix	(Type)		-	# of Coolers:			BB	10)(abic	po	016 lete	ON)/-! (u			
Time Matrix Sample Name Type and # Type and				Cooler Temp(i	ncluding CF): 2.	800	LM∢		Meth	8 Mg	Br, I	AOV	ofiloC			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	RTEX	81H9T 1 1808	EDB (PAHs ARDR	Cht') 0228) o tao			
$q_{1:00}$ $L1-1.5$ ¹ baggy -0.032 $p_{1:00}$ $L1-1.5$ ¹ baggy -0.032 $p_{1:00}$ $p_{1:00}$ $L2-5$ wr fracta $4n$ -0.032 $p_{1:00}$	6.5.8	l'ins	UI-Surface	An		- 00	5	2		4	<u>\.</u>	-				-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9:00		1-1-17	baggy		-002	1700				ma					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	02 - UD		L2-Surface	400-		-003	24				14		- 			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	51=01		12-Z1	baggy		- 004	41				u t					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	05:01		L3-surface			- 005	60				tre		- 1			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c $	an-11		L3-1.5'	baggu		-006	INN			7-	ina					
11:30 14-2' bry Su - 000 S 1 - 000 S	11: 10		L 4. Surface	L'rat		- 007	ad				10					
12:15 J SWI 40 - 000 = 000 = 1 - 1 - 000 = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	11:30		14-2'	645 S. 4.		- 008	20				bi					
12:15 ° SUO 2 4-n -010 + + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	01:21		SWI	40,0		-000-	011				12					
Time: Relinquished by: Time: S-31-19 8:50 S-31-19 8:50 S-31-19 8:50 S-31-19 8:50 Time: S-31-19 8:50 Time	51:21	2	SW2	400		-010	->	-		- 30						
Time: Relinquished by: Time: Relinquished by: Received by: Via: Courier Date Time Remarks: Relinquished by: Via: Courier Date Time Remarks: Please MMTHTHT Please Job and -ocs from Per Met Renove - ocs from				1										*		
Time: Relifeduished by: Received by: Via: Courier Date Time X PLACE MW 1 PH +1/S+ 1. 46/6/18	Time:	Relinquish	led by:	Received oy:	Via:	Date Time	Rema	tad	. 10		Per	Mel	lemo	e - 006 a	nd -008 +	- Sm
	Time:	Relinduish	ed by:	Received by:	Via: Courier	- Date Time 5-31-19 8-50	*	Lea	z	MM	Z	+11	芝川		4.6/	Page 53

Released to Imaging: 2/3/2023 8:46:29 AM



June 14, 2019

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

RE: Caudill Reanalysis

OrderNo.: 1906464

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/8/2019 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1906464

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/14/2019

CLIENT: Souder, Miller & Associates Project: Caudill Reanalysis Lab ID: 1906464-001	Client Sample ID: L3-1.5' Collection Date: 5/27/2019 11:00:00 AM Matrix: SOIL Received Date: 6/8/2019 10:00:00 AM								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	MRA		
Chloride	ND	60		mg/Kg	20	6/13/2019 1:41:21 PM	45561		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM		
Diesel Range Organics (DRO)	70	9.6		mg/Kg	1	6/14/2019 1:24:43 AM	45479		
Motor Oil Range Organics (MRO)	68	48		mg/Kg	1	6/14/2019 1:24:43 AM	45479		
Surr: DNOP	114	70-130		%Rec	1	6/14/2019 1:24:43 AM	45479		
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.8	н	mg/Kg	1	6/11/2019 3:37:26 PM	45462		
Surr: BFB	109	73.8-119	Н	%Rec	1	6/11/2019 3:37:26 PM	45462		
EPA METHOD 8021B: VOLATILES						Analyst	NSB		
Benzene	ND	0.024	н	mg/Kg	1	6/11/2019 3:37:26 PM	45462		
Toluene	ND	0.048	н	mg/Kg	1	6/11/2019 3:37:26 PM	45462		
Ethylbenzene	ND	0.048	Н	mg/Kg	1	6/11/2019 3:37:26 PM	45462		
Xylenes, Total	ND	0.097	Н	mg/Kg	1	6/11/2019 3:37:26 PM	45462		
Surr: 4-Bromofluorobenzene	101	80-120	н	%Rec	1	6/11/2019 3:37:26 PM	45462		

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 6

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1906464

Date Reported: 6/14/2019

CLIENT: Souder, Miller & Associates Project: Caudill Reanalysis	Client Sample ID: L4-2' Collection Date: 5/27/2019 11:30:00 AM									
Lab ID: 1906464-002	Matrix: SOIL		Recei	ved Dat	e: 6/8	8/2019 10:00:00 AM				
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	MRA			
Chloride	ND	60		mg/Kg	20	6/13/2019 1:53:46 PM	45561			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM			
Diesel Range Organics (DRO)	32	9.8		mg/Kg	1	6/12/2019 7:24:46 PM	45479			
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 7:24:46 PM	45479			
Surr: DNOP	112	70-130		%Rec	1	6/12/2019 7:24:46 PM	45479			
EPA METHOD 8015D: GASOLINE RANGI	E					Analyst	NSB			
Gasoline Range Organics (GRO)	ND	4.9	н	mg/Kg	1	6/11/2019 4:00:21 PM	45462			
Surr: BFB	108	73.8-119	н	%Rec	1	6/11/2019 4:00:21 PM	45462			
EPA METHOD 8021B: VOLATILES						Analyst	NSB			
Benzene	ND	0.025	н	mg/Kg	1	6/11/2019 4:00:21 PM	45462			
Toluene	ND	0.049	Н	mg/Kg	1	6/11/2019 4:00:21 PM	45462			
Ethylbenzene	ND	0.049	Н	mg/Kg	1	6/11/2019 4:00:21 PM	45462			
Xylenes, Total	ND	0.099	н	mg/Kg	1	6/11/2019 4:00:21 PM	45462			
Surr: 4-Bromofluorobenzene	99.2	80-120	н	%Rec	1	6/11/2019 4:00:21 PM	45462			

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 6

Client: Project:	Soud Caud	er, Miller & A lill Reanalysis	ssociate	es							
Sample ID:	MB-45561	SampT	ype: m l	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	n ID: 45	561	F	RunNo: 6	0629				
Prep Date:	6/13/2019	Analysis D	Date: 6/	13/2019	5	SeqNo: 20	052139	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-45561	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 45	561	F	RunNo: 6	0629				
Prep Date:	6/13/2019	Analysis D	Date: 6/	13/2019	5	SeqNo: 20	052140	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.7	90	110			

- * 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 6

1906464

14-Jun-19

WO#:

Client: Project:	Souder, Caudill	Miller & A Reanalysis	ssociate	28							
Sample ID: MB-4	15479	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS		Batc	h ID: 45	479	F	RunNo: 6	0537				
Prep Date: 6/10	0/2019	Analysis E	Date: 6/	11/2019	S	SeqNo: 2	049887	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic	s (DRO)	ND	10								
Motor Oil Range Orga	nics (MRO)	ND	50								
Surr: DNOP		9.5		10.00		94.7	70	130			
Sample ID: LCS-	-45479	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCS	S	Batc	h ID: 45	479	F	RunNo: 6	0580				
Prep Date: 6/10	0/2019	Analysis E	Date: 6/	12/2019	S	SeqNo: 2	050992	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic	cs (DRO)	52	10	50.00	0	105	63.9	124			
Surr: DNOP		4.9		5.000		98.8	70	130			

- * 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 6

1906464

14-Jun-19

WO#:

Client: Soud Project: Caud	er, Miller & Ass ill Reanalysis	ociate	es							
Sample ID: MB-45462 SampType: MBLK				Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch I	D: 45	462	F	RunNo: 6	0551				
Prep Date: 6/10/2019	Analysis Dat	e: 6/	11/2019	S	SeqNo: 2	049131	Units: mg/#	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 1000	5.0	1000		104	73.8	119			
Sample ID: LCS-45462	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch I	D: 45	462	F	RunNo: 6	0551				
Prep Date: 6/10/2019	Analysis Dat	e: 6/	11/2019	S	SeqNo: 2	049132	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.7	80.1	123			
Surr: BFB	1100		1000		115	73.8	119			

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

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

WO#: 1906464 14-Jun-19

Client:SoudProject:Caud	er, Miller & A ill Reanalysis	ssociate	es							
Sample ID: MB-45462	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	Batch ID: 45462		F	RunNo: 60551					
Prep Date: 6/10/2019	Analysis [Analysis Date: 6/11/2019		SeqNo: 2049158			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			
Sample ID: LCS-45462	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 45	462	F	RunNo: 6	0551				
Prep Date: 6/10/2019	Analysis [Date: 6/	11/2019	5	SeqNo: 2	049159	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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
- 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 6

1906464

14-Jun-19

WO#:

Received by	• OCD :	12/7/2022	10:45:59 AM
-------------	----------------	-----------	-------------

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environn TEL: 505-345 Website: wy	ental Analysis Labora 4901 Hawkin Albuquerque, NM 8 -3975 FAX: 505-345 ww.hallenvironmental	atory 109 San 107 107	ample Log-In Check List			
Client Name: SMA-CARLSBAD	Work Order Nu	mber: 1906464		RcptNo: 1			
Received By: Isaiah Ortiz Completed By: Leah Baca Reviewed By: TMM 6-10-19	6/8/2019 10:00:0 6/9/2019 1:49:32	D AM PM	I-O Lail Stran	*			
Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered?		Yes 🗹 <u>Courier</u>	No 🗌	Not Present			
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 🗌				
5. Sample(s) in proper container(s)?6 Sufficient sample volume for indicated test(s))?	Yes 🗸	No 🗌				
7 Are samples (except VOA and ONG) property	v prosonvod?	Vec 🗹					
8. Was preservative added to bottles?	y preserved?	Yes	No 🗹				
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🖌			
10. Were any sample containers received broke	n?	Yes	No 🗹	# of preserved			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 unless	noted)		
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?			
13. Is it clear what analyses were requested?14. Were all holding times able to be met? (If no. notify customer for authorization)		Yes ⊻ Yes ⊻	No 🗌 No 🗌	Checked by: DAD 61	10/19		
Special Handling (if applicable)							
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹			
Person Notified: By Whom: Regarding: Client Instructions:	Dat Via	e : eMail P	Phone 🗌 Fax	In Person			
16. Additional remarks:							
17. <u>Cooler Information</u> <u>Cooler No</u> Temp ^o C Condition Set 1 5.4 Good Yes	eal Intact Seal No	Seal Date	Signed By				

Page 1 of 1

Received by OCD: 12/7/2022	10:45:59 AM	Page 62 of (<u>63</u>
Hall ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com Hawkins NE - Albuquerque, NM 87109 05-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) SHIs by 8310 or 8270SIMS 3CRA 8 Metals SINF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 3260 (VOA) (YOA) (fresent/Absent) (fresent/Absent)	Lyze all tech with Bill P C contracted data will be clearly negled on the analytical report.)
4901 Tel. 5	ראואי (סאם (סאט) מכו מפּידים (1983 Pesticides/8082 PCB's	S AND A STATE OF A STA	
	3TEX)/ MTBE / TMB's (8021)	A lo	
Turn-Around Time: Standard A Rush A A Project Name: (Au M) R-analysis. Project #:	Project Manager: MMo Mc Sundary M Sampler: MM On Ice: Styles DNO f Coolers: (-0.2) Cooler Temp(induding CF): 5.4-2 Container Preservative HEAL No. Type and # Type	I type and # I type bwww -001 bwww -002 bwww -002 bwww -002 bww -002 balae Time Beceived by: Via: Council 21/19	
Client: Custody Record	email or Fax#: QA/QC Package: Candard Cackage: Carceditation: Az Compliance NELAC Other Carcel (Full Validation) Accreditation: Az Compliance Carcel (Full Validation) Carcel (Full Validation)	Date Itme Matrix Satisfyer ivalities SPD If UD NUL L3-7.5 SPD If (3) NUL L4-2.1 SPD If (3) If (3) If (3) Date: Time: Relinquished by: Date: Time: Relinquished by: If necessary, samples submitted to Hall Environmental may be subcon	

Released to Imaging: 2/3/20

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	164830
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/3/2023

Page 63 of 63

Action 164830