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

July 22, 2020

#5E29133-BG5

NMOCD District 1
Ms. Victoria Venegas
811 S. First St.,
Artesia, NM 88210

SUBJECT: Remediation Closure Report for the Gaucho 21 Federal 2H Release (1RP-5336), Lea County, New Mexico

To Whom it May Concern:

On behalf of Devon Energy Production Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at Gaucho 21 Federal 2H site. The site is in Unit M, Section 21, Township 22S, Range 34E, Lea County, New Mexico, on federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Gaucho 21 Fed 2H	Company	Devon Energy Production Company
API Number	3002540626	Location	32.3709793, -103.4823151
Incident Number	1RP-5336		
Estimated Date of Release	12/18/2018	Date Reported to NMOCD	1/2/2019
Land Owner	Federal	Reported To	NMOCD, BLM, NMSLO
Source of Release	Dump line of a three-phase separator developed a hole causing fluid to release onto the pad.		
Released Volume	2.5 bbls + 3.95 bbls	Released Material	Crude Oil & Produced Water
Recovered Volume	Crude oil: 2.50 bbls Produced Water: 3 bbls	Net Release	.95 bbls
NMOCD Closure Criteria	>100		
SMA Response Dates	3/12/2020, 3/26/2020, 4/7/2020, 6/11/2020, 7/10/2020		

1.0 Background

On December 18, 2018, a release was discovered at the Gaucho 21 Fed 2H site due to water dump valve developing a hole causing fluid to release onto the pad. Initial response activities were conducted by Devon personnel, and included dispatching a vacuum truck and containment activities, which recovered approximately 5.50 gallons of fluid. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Gaucho 21 Fed 2H is located approximately 20 miles to the southwest of Eunice, New Mexico on Federal (BLM) land at an elevation of approximately 3440 feet above mean sea level (amsl).

Based upon water well data (Appendix B), depth to groundwater in the area is estimated to be 432 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 6/22/2020). There are five (5) known water wells (CP-00865, CP-01803, CP-01706, CP-01705, CP-01740) with depth to groundwater data within 1.55 miles of the release. Water well CP-00865 is located 0.68 miles from the location with a depth to groundwater recorded at 605 feet, water well CP-01803 is at 1.5 miles with a depth of 180 feet, water well CP-01705 is at 1.51 miles with a depth of 282 feet, water well CP-01705 is located 1.52 miles with a depth of 305 feet, and water well CP-01740 is located 1.52 miles from the site with a depth to groundwater recorded at 560 feet. The nearest significant watercourse is an unnamed draw, located approximately 5,217 feet to the west. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

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

3.0 Release Characterization and Remediation Activities

On March 12, 26 and April 7, 2020, SMA personnel was on site in response to the release associated with Gaucho 21 Fed 2H. SMA performed site delineation activities by collecting soil samples around the release site based on the initial C-141 description. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of nine (L1-L5 and SW1-SW4) sample locations were investigated using a hand-auger. A total of twenty (20) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

As summarized in Table 3, results indicated that an area approximately 35 feet by 15 feet by 0.5 feet deep had been impacted.

On June 11, 2020, SMA return to location to oversee excavation, SMA guided the excavation by collecting soil samples for field screening. The walls and base were excavated until filed screening results indicated

that NMOCD Closure Criteria would be met. NMOCD was notified on June 9 and July 8, 2020 that closure samples were expected to be collected two (2) business days.

On June 11 and July 10, 2020, SMA conducted confirmation sampling of the walls and base of the excavation, which measured approximately 35 feet by 15 feet by one foot in depth.

Confirmation samples were comprised of five-point composites of the base (CS1, CS2, CS3) and walls (SW1, SW2, SW3, SW4), as shown on Figure 3.

A total of eight (8) samples were collected for laboratory analysis. Samples were placed into laboratory supplies glassware, labeled, and maintained on ice until delivered to Hall Environmental Analysis Laboratories in Albuquerque, New Mexico and Envirotech Analytical Laboratories in Farmington, New Mexico (Appendix D).

Figure 3 shows the extent of the excavation and sample locations. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D. All results are below the NMOCD Closure Criteria for this site. On behalf of Devon, SMA requests closure for release 1RP-5336.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions located near Hobbs, NM, an NMOCD permitted disposal facility.

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 Ashley Maxwell at 505-320-9241 or Shawna Chubbuck at 505-325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell
Staff Scientist

Shawna Chubbuck
Senior Scientist

ATTACHMENTS:

Figures:

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

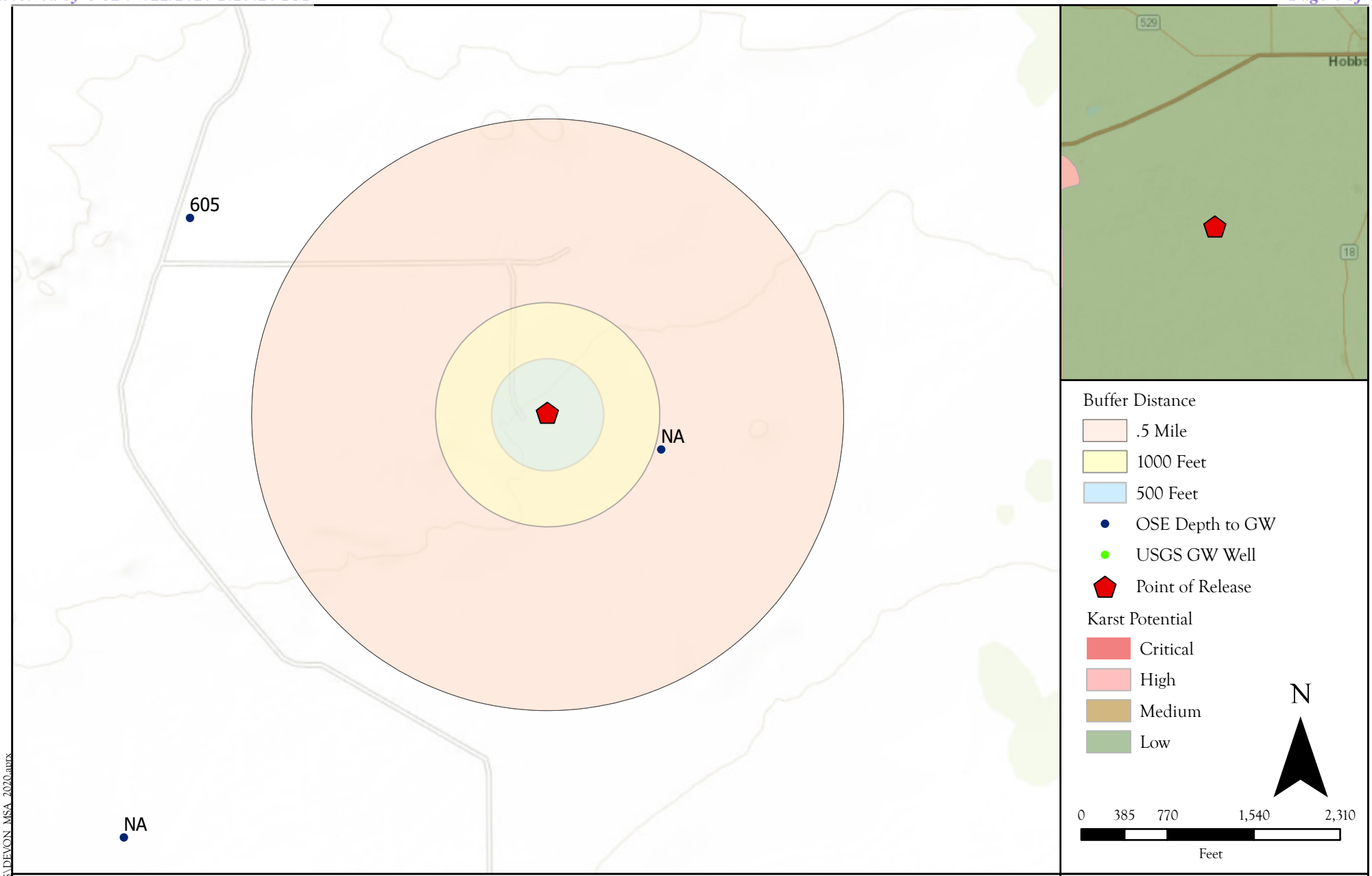
Tables:

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

Appendices:

Appendix A: Form C141
Appendix B: NMOSE Wells Report
Appendix C: Photo Log
Appendix D: Laboratory Analytical Reports

FIGURES



Site Map
Gaucho 21 Federal 2H- Devon Energy
Sec 21 T22S R34E Lea County, New Mexico

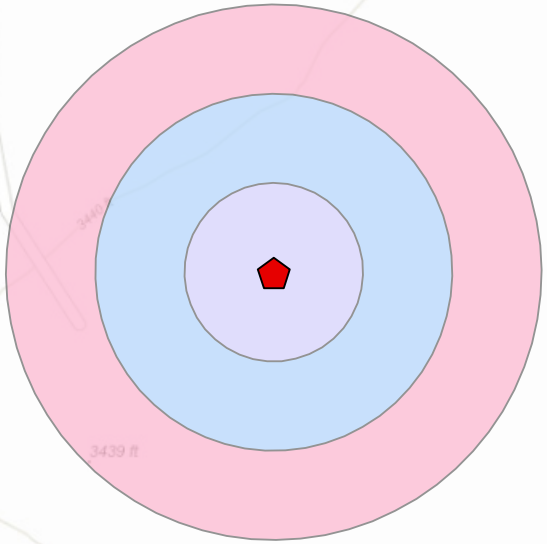
Figure 1

P:\5-Devon MSA 2020 (5E29133)\GIS\DEVON_MSA_2020.aprx
Date Saved: 6/10/2020

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

Drawn Sebastian Orozco
Date 6/22/2020
Checked
Approved

SMA
201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
Serving the Southwest & Rocky Mountains



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

N

0 70 140 280 420

Feet

Surface Water Protection Map
Gaucho 21 Federal 2H- Devon Energy
Sec 21 T22S R34E Lea County, New Mexico

Figure 2

P:\5-Devon MSA 2020 (5E29133)\GIS\DEVON_MSA_2020.aprx
Date Saved: 6/10/2020

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

Drawn Sebastian Orozco
Date 6/22/2020
Checked
Approved

201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
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Equipment

Excavation

Sample Points

Bottom Hole Closure Samples

Closure Side Wall Samples

Initial Soil Samples

Point of Release (1RP-5336)

N

0 4.25 8.5 17 25.5

Feet

Site and Sample Location Map
Gaucho 21 Federal 2H- Devon Energy
Sec 21 T22S R34E Lea County, New Mexico

Figure 3

P:\5-Devon MSA 2020 (5E29133)\GIS\DEVON_MSA_2020.mxd
Date Saved: 6/10/2020

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

Drawn Sebastian Orozco
Date 6/22/2020
Checked
Approved

SMA

201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
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TABLES

Table 2:
NMOCD Closure Criteria

Devon Energy Production Company
Gaucho 21 Fed 2H(1RP-5336)

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	432	OSE & USGS (Appendix B)
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	-
Hortizontal Distance to Nearest Significant Watercourse (ft)	5,217	Unnamed draw to the west

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		**Closure Criteria (units in mg/kg)**				
		Chloride *numerical limit or background, whichever is greater	**TPH**	**GRO + DRO**	**BTEX**	**Benzene**
< 50' BGS		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'	X	20000	2500	1000	50	10
Surface Water	**yes or no**	**if yes, then**				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

Table 3:
Summary of Sample Results

Devon Energy Production Company
Gaucho 21 Fed 2H(1RP-5336)

Sample ID	Sample Date	Depth (feet bgs)	Proposed Action/ Action Taken	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	**Total TPH** mg/Kg	Cl- mg/Kg
NMOCD Closure Criteria				50	10	1000			2,500	20,000
Initial Samples										
L1	3/26/2020	Surface	in-situ	<0.207	<0.023	<4.6	<8.2	<41	<53.8	1,500
		1'		<0.222	<0.025	<4.9	<9.3	<46	<60.2	660
		2'		-	-	-	-	-	-	80
L2	3/26/2020	Surface	exacavate	<0.210	<0.023	<4.7	1,900	1,100	3,000	2,300
		1'	in-situ	<0.215	<0.024	<4.8	140	88	228	1,100
		2'		-	-	<4.8	<9.3	<47	<61.1	1,500
		3'		-	-	<4.7	<9.6	<48	<62.3	230
L3	3/26/2020	Surface	in-situ	<0.217	<0.024	<4.8	500	490	990	99
		1'		<0.213	<0.024	<4.7	<7.3	<36	<48	<60
L4	3/26/2020	Surface	in-situ	<0.207	<0.023	<4.6	15	<42	15	<60
		1'		<0.219	<0.024	<4.9	<9.1	<46	<60	93
L5	3/26/2020	Surface	in-situ	<0.213	<0.024	<4.7	11	47	58	<60
		1'		<0.222	<0.025	<4.9	<8.2	<41	<54.1	<60
SW1	3/26/2020	Surface	exacavate	<1.05	<0.12	<23	2,200	1,200	3,400	580
			in-situ	<0.219	<0.024	<4.9	<9.2	<46	<60.1	<60
SW2	3/26/2020	Surface	in-situ	<0.225	<0.025	<5.0	810	600	1,410	250
				<0.217	<0.024	<4.8	980	610	1,590	600
	4/7/2020			<0.211	<0.023	<4.7	<9.8	<49	<63.5	930
SW3	3/26/2020	Surface	in-situ	<0.222	<0.025	<4.9	<9.9	<49	<63.8	<60
SW4	3/26/2020	Surface	in-situ	<0.208	<0.023	<4.6	<8.9	<45	<58.5	<60
Closure Samples										
CS1	6/11/2020	1'	in-situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	527
CS2		1'		<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	354
CS3		1'		<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	368
SW1	6/11/2020	0-1'	exacavate	<0.100	<0.0250	<20.0	72.6	<50.0	72.6	915
	7/10/2020	0-1	in-situ	<0.222	<0.025	<4.9	<9.9	<50	<64.8	<60
SW2	6/11/2020	0-1'	in-situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	73.1
SW3		0-1'		<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	357
SW4		0-1'		<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	180

"--" = Not Analyzed

APPENDIX A
FORM C141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NCH1903638862
District RP	1RP-5336
Facility ID	
Application ID	pCH1903639119

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # *(assigned by OCD)* NCH1903638862 GAUCHO 21 FED 2H @ 30-025-40626
Contact mailing address 6488 Seven Rivers Hwy	

Location of Release Source

Latitude 32.3709793 Longitude -103.4823151
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Gaucho 21 Fed 2H	Site Type Oil
Date Release Discovered 12/18/2018	API# *(if applicable)* 3002540626

Unit Letter	Section	Township	Range	County
M	21	22S	34E	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) 2.50	Volume Recovered (bbls) 2.50
■ Produced Water	Volume Released (bbls) 3.95	Volume Recovered (bbls) 3
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Hole in the side of water dump valve spilled production fluid. Spill area 50' x 30' x 0.021' on well pad. Spill stayed on location.

State of New Mexico
Oil Conservation Division

Incident ID	NCH1903638862
District RP	1RP-5336
Facility ID	
Application ID	pCH1903639119

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

Initial Response

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

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Kendra DeHoyos Title: EHS Associate

Signature: Date: 1/2/19

email: kendra.dehoyos@dvn.com Telephone: 575-748-3371

OCD Only

Received by: RECEIVED By CHernandez at 10:42 am, Feb 05, 2019

State of New Mexico
Oil Conservation Division

Incident ID	NCH1903638862
District RP	1RP-5336
Facility ID	
Application ID	pCH1903639119

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NCH1903638862
District RP	1RP-5336
Facility ID	
Application ID	pCH1903639119

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: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 7/22/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NCH1903638862
District RP	1RP-5336
Facility ID	
Application ID	pCH1903639119

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ■ Detailed description of proposed remediation technique
- ■ Scaled sitemap with GPS coordinates showing delineation points
- ■ Estimated volume of material to be remediated
- ■ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ■ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 7/22/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NCH1903638862
District RP	1RP-5336
Facility ID	
Application ID	pCH1903639119

Closure

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

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

- ■ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ■ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ■ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ■ Description of remediation activities

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

Printed Name: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 7/22/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

OCD Only

Received by: Cristina Eads Date: 07/22/2020

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

Closure Approved by: Date: 09/21/2020

Printed Name: Cristina Eads Title: Environmental Specialist

APPENDIX B
NMOSE WELLS REPORT

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00865 POD1		CP	LE	2	2	3	20	22S	34E	641845	3583118	1085	885	605	280
CP 01803 POD1		CP	LE	1	1	1	34	22S	34E	644357	3580786	2379	240	180	60
CP 01706 POD1		CP	LE	4	4	2	32	22S	34E	642603	3580185	2390	340	282	58
CP 01705 POD1		CP	LE	4	4	2	32	22S	34E	642588	3580179	2397	700	305	395
CP 01740 POD1		CP	LE	1	1	1	34	22S	34E	644402	3580765	2424	600	560	40

Average Depth to Water: **386 feet**
Minimum Depth: **180 feet**
Maximum Depth: **605 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 642781.296 **Northing (Y):** 3582569.172 **Radius:** 2500

Table 4:
Potential Depth to Groundwater

Devon Energy
Gaucho 21 Federal 2H

Depth To Groundwater			Calculations	
Location Elevation (ft):	3446			
Well Name	**Well Elevation (ft)**	**Well Depth to GW**	**Adjusted elevation**	**Adjusted Depth to GW**
CP 00865 POD 1	3453	605	2848	598
CP 01803 POD 1	3407	180	3227	219
CP 01706 POD 1	3411	282	3129	317
CP 01705 POD 1	3411	350	3061	385
CP 01740 POD 1	3405	600	2805	641
Total # of Wells	5			2160

Potential Depth to GW at Release:	**432**

rr

APPENDIX C
PHOTO LOG

APPENDIX D

LABORATORY ANALYTICAL REPORTS

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Analytical Laboratory

Analytical Report

Report Summary

Client: Souder Miller & Associates

Samples Received: 6/13/2020

Job Number: 19026-0001

Work Order: P006047

Project Name/Location: Gaucho 21 Federal 2H

Report Reviewed By: Date: 6/18/20

Walter Hinchman, Laboratory Director

envirotech
Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	P006047-01A	Soil	06/11/20	06/13/20	Glass Jar, 4 oz.
CS2	P006047-02A	Soil	06/11/20	06/13/20	Glass Jar, 4 oz.
CS3	P006047-03A	Soil	06/11/20	06/13/20	Glass Jar, 4 oz.
SW1	P006047-04A	Soil	06/11/20	06/13/20	Glass Jar, 4 oz.
SW2	P006047-05A	Soil	06/11/20	06/13/20	Glass Jar, 4 oz.
SW3	P006047-06A	Soil	06/11/20	06/13/20	Glass Jar, 4 oz.
SW4	P006047-07A	Soil	06/11/20	06/13/20	Glass Jar, 4 oz.

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Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

CS1
P006047-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*109 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Surrogate: n-Nonane		*101 %*		*50-200*	*2025007*	*06/15/20*	*06/16/20*	*EPA 8015D*	
Nonhalogenated Organics by EPA 8015D - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8015D*	
Anions by EPA 300.0/9056A									
Chloride	**527**	20.0	mg/kg	1	2025010	06/16/20	06/16/20	EPA 300.0/9056A	

envirotech Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

CS2

P006047-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Surrogate: n-Nonane		*94.8 %*		*50-200*	*2025007*	*06/15/20*	*06/16/20*	*EPA 8015D*	
Nonhalogenated Organics by EPA 8015D - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8015D*	
Anions by EPA 300.0/9056A									
Chloride	**354**	20.0	mg/kg	1	2025010	06/16/20	06/16/20	EPA 300.0/9056A	

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Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

CS3
P006047-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Surrogate: n-Nonane		*97.8 %*		*50-200*	*2025007*	*06/15/20*	*06/16/20*	*EPA 8015D*	
Nonhalogenated Organics by EPA 8015D - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8015D*	
Anions by EPA 300.0/9056A									
Chloride	**368**	20.0	mg/kg	1	2025010	06/16/20	06/16/20	EPA 300.0/9056A	

envirotech Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

SW1
P006047-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Diesel Range Organics (C10-C28)	**72.6**	25.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Surrogate: n-Nonane		*105 %*		*50-200*	*2025007*	*06/15/20*	*06/16/20*	*EPA 8015D*	
Nonhalogenated Organics by EPA 8015D - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8015D*	
Anions by EPA 300.0/9056A									
Chloride	**915**	20.0	mg/kg	1	2025010	06/16/20	06/16/20	EPA 300.0/9056A	

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Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

SW2
P006047-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Surrogate: n-Nonane		*93.7 %*		*50-200*	*2025007*	*06/15/20*	*06/16/20*	*EPA 8015D*	
Nonhalogenated Organics by EPA 8015D - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8015D*	
Anions by EPA 300.0/9056A									
Chloride	**73.1**	20.0	mg/kg	1	2025010	06/16/20	06/16/20	EPA 300.0/9056A	

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Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

SW3

P006047-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Surrogate: n-Nonane		*99.2 %*		*50-200*	*2025007*	*06/15/20*	*06/16/20*	*EPA 8015D*	
Nonhalogenated Organics by EPA 8015D - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8015D*	
Anions by EPA 300.0/9056A									
Chloride	**357**	20.0	mg/kg	1	2025010	06/16/20	06/16/20	EPA 300.0/9056A	

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Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

SW4
P006047-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2025007	06/15/20	06/16/20	EPA 8015D	
Surrogate: n-Nonane		*103 %*		*50-200*	*2025007*	*06/15/20*	*06/16/20*	*EPA 8015D*	
Nonhalogenated Organics by EPA 8015D - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2025002	06/16/20	06/16/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*		*50-150*	*2025002*	*06/16/20*	*06/16/20*	*EPA 8015D*	
Anions by EPA 300.0/9056A									
Chloride	**180**	20.0	mg/kg	1	2025010	06/16/20	06/16/20	EPA 300.0/9056A	

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Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

Volatile Organics by EPA 8021B - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2025002 - Purge and Trap EPA 5030A										
Blank (2025002-BLK1)				Prepared & Analyzed: 06/15/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.49*		*"*	*8.00*		*106*	*50-150*			
LCS (2025002-BS1)				Prepared & Analyzed: 06/15/20 1						
Benzene	5.08	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.07	0.0250	"	5.00		101	70-130			
Ethylbenzene	5.04	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.06	0.0250	"	5.00		101	70-130			
Total Xylenes	15.2	0.0250	"	15.0		101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.63*		*"*	*8.00*		*108*	*50-150*			
Matrix Spike (2025002-MS1)		**Source: P006050-01**		Prepared & Analyzed: 06/15/20 1						
Benzene	5.20	0.0250	mg/kg	5.00	ND	104	54.3-133			
Toluene	5.19	0.0250	"	5.00	ND	104	61.4-130			
Ethylbenzene	5.16	0.0250	"	5.00	ND	103	61.4-133			
p,m-Xylene	10.3	0.0500	"	10.0	ND	103	63.3-131			
o-Xylene	5.19	0.0250	"	5.00	ND	104	63.3-131			
Total Xylenes	15.5	0.0250	"	15.0	ND	103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.77*		*"*	*8.00*		*110*	*50-150*			
Matrix Spike Dup (2025002-MSD1)		**Source: P006050-01**		Prepared & Analyzed: 06/15/20 1						
Benzene	4.77	0.0250	mg/kg	5.00	ND	95.3	54.3-133	8.67	20	
Toluene	4.73	0.0250	"	5.00	ND	94.6	61.4-130	9.30	20	
Ethylbenzene	4.71	0.0250	"	5.00	ND	94.2	61.4-133	9.18	20	
p,m-Xylene	9.42	0.0500	"	10.0	ND	94.2	63.3-131	9.19	20	
o-Xylene	4.73	0.0250	"	5.00	ND	94.7	63.3-131	9.23	20	
Total Xylenes	14.2	0.0250	"	15.0	ND	94.3	0-200	9.20	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.71*		*"*	*8.00*		*109*	*50-150*			

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Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2025007 - DRO Extraction EPA 3570										
Blank (2025007-BLK1)				Prepared & Analyzed: 06/15/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*56.9*		*"*	*50.0*		*114*	*50-200*			
LCS (2025007-BS1)				Prepared & Analyzed: 06/15/20 1						
Diesel Range Organics (C10-C28)	442	25.0	mg/kg	500		88.4	38-132			
Surrogate: n-Nonane	*51.5*		*"*	*50.0*		*103*	*50-200*			
Matrix Spike (2025007-MS1)	**Source: P006050-01**			Prepared & Analyzed: 06/15/20 1						
Diesel Range Organics (C10-C28)	7930	500	mg/kg	500	7770	31.0	38-132			M4
Surrogate: n-Nonane	*56.4*		*"*	*50.0*		*113*	*50-200*			
Matrix Spike Dup (2025007-MSD1)	**Source: P006050-01**			Prepared & Analyzed: 06/15/20 1						
Diesel Range Organics (C10-C28)	8050	500	mg/kg	500	7770	56.3	38-132	1.58	20	M4
Surrogate: n-Nonane	*56.6*		*"*	*50.0*		*113*	*50-200*			

envirotech
Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2025002 - Purge and Trap EPA 5030A										
Blank (2025002-BLK1)				Prepared & Analyzed: 06/15/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*"*	*8.00*		*92.2*	*50-150*			
LCS (2025002-BS2)				Prepared & Analyzed: 06/15/20 1						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.47*		*"*	*8.00*		*93.4*	*50-150*			
Matrix Spike (2025002-MS2)		**Source: P006050-01**		Prepared & Analyzed: 06/15/20 1						
Gasoline Range Organics (C6-C10)	50.1	20.0	mg/kg	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*"*	*8.00*		*93.2*	*50-150*			
Matrix Spike Dup (2025002-MSD2)		**Source: P006050-01**		Prepared & Analyzed: 06/15/20 1						
Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	101	70-130	0.802	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.39*		*"*	*8.00*		*92.4*	*50-150*			

envirotech
Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

Anions by EPA 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2025010 - Anion Extraction EPA 300.0/9056A										
Blank (2025010-BLK1)				Prepared: 06/16/20 0 Analyzed: 06/16/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2025010-BS1)				Prepared: 06/16/20 0 Analyzed: 06/16/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2025010-MS1)		**Source: P006046-01**		Prepared: 06/16/20 0 Analyzed: 06/16/20 1						
Chloride	1970	40.0	mg/kg	250	1660	124	80-120			M2
Matrix Spike Dup (2025010-MSD1)		**Source: P006046-01**		Prepared: 06/16/20 0 Analyzed: 06/16/20 1						
Chloride	1770	40.0	mg/kg	250	1660	43.5	80-120	10.8	20	M2

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

envirotech
Analytical Laboratory

Souder Miller & Associates	Project Name:	Gaucho 21 Federal 2H	
401 W. Broadway	Project Number:	19026-0001	**Reported:**
Farmington NM, 87401	Project Manager:	Ashley Maxwell	06/18/20 12:10

Notes and Definitions

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client:	SMA
Project:	Gaucho 21 Federal 2H
Project Manager:	Ashley Maxwell
Address:	201 S. Halagueno St.
City, State, Zip	Carlsbad, NM, 88220
Phone:	(619) 721-4813
Email:	Sebastian.Orozco@Souder miller.com
Report due by:	

Bill To

Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
P000047	19026-0001

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
11:30	6/11/20	Soil	1-4oz	CS1	1	X	X	X			X			
11:35				CS2	2									
11:40				CS3	3									
11:51				SW1	4									
11:55				SW2	5									
12:02				SW3	6									
12:15				SW4	7									

Additional Instructions: Bill Devon WO# 20715201

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Sebastian Orozco	6.12.2020	930		6.12.2020	930
	6.12.2020	1555	Rena Lopez	6/13/20	10:10

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (000) 362-1879
Ph (505) 632-1881 Fx (505) 632-1865
envirotech-inc.com
labadmin@envirotech-inc.com

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

April 06, 2020

Ashley Maxwell

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

RE: Gaucho 21 Federal 2H OrderNo.: 2003C63

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 17 sample(s) on 3/28/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L1-Surface
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:24:00 PM
Lab ID: 2003C63-001 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1500	60		mg/Kg	20	4/1/2020 10:38:46 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.2		mg/Kg	1	4/1/2020 10:41:14 AM	51413
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	4/1/2020 10:41:14 AM	51413
Surr: DNOP	103	55.1-146		%Rec	1	4/1/2020 10:41:14 AM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/1/2020 12:15:34 AM	51406
Surr: BFB	98.5	66.6-105		%Rec	1	4/1/2020 12:15:34 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/1/2020 12:15:34 AM	51406
Toluene	ND	0.046		mg/Kg	1	4/1/2020 12:15:34 AM	51406
Ethylbenzene	ND	0.046		mg/Kg	1	4/1/2020 12:15:34 AM	51406
Xylenes, Total	ND	0.092		mg/Kg	1	4/1/2020 12:15:34 AM	51406
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/1/2020 12:15:34 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L1-1'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:26:00 PM
Lab ID: 2003C63-002 **Matrix:** SOIL **Received Date:** 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	660	60		mg/Kg	20	4/1/2020 11:15:49 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/31/2020 9:04:29 PM	51413
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/31/2020 9:04:29 PM	51413
Surr: DNOP	94.8	55.1-146		%Rec	1	3/31/2020 9:04:29 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2020 12:39:23 AM	51406
Surr: BFB	99.5	66.6-105		%Rec	1	4/1/2020 12:39:23 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	4/1/2020 12:39:23 AM	51406
Toluene	ND	0.049		mg/Kg	1	4/1/2020 12:39:23 AM	51406
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2020 12:39:23 AM	51406
Xylenes, Total	ND	0.099		mg/Kg	1	4/1/2020 12:39:23 AM	51406
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/1/2020 12:39:23 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L1-2'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 3:32:00 PM
Lab ID: 2003C63-003 **Matrix:** SOIL **Received Date:** 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	80	60		mg/Kg	20	4/2/2020 2:39:21 AM	51492

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L2-Surface
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:30:00 PM
Lab ID: 2003C63-004 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	2300	150		mg/Kg	50	4/3/2020 10:56:32 PM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	1900	95		mg/Kg	10	3/31/2020 9:28:25 PM	51413
Motor Oil Range Organics (MRO)	1100	480		mg/Kg	10	3/31/2020 9:28:25 PM	51413
Surr: DNOP	0	55.1-146	S	%Rec	10	3/31/2020 9:28:25 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/1/2020 2:14:59 AM	51406
Surr: BFB	99.1	66.6-105		%Rec	1	4/1/2020 2:14:59 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	4/1/2020 2:14:59 AM	51406
Toluene	ND	0.047		mg/Kg	1	4/1/2020 2:14:59 AM	51406
Ethylbenzene	ND	0.047		mg/Kg	1	4/1/2020 2:14:59 AM	51406
Xylenes, Total	ND	0.093		mg/Kg	1	4/1/2020 2:14:59 AM	51406
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/1/2020 2:14:59 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L2-1'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:34:00 PM
Lab ID: 2003C63-005 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	1100	61		mg/Kg	20	4/2/2020 3:53:50 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	140	8.7		mg/Kg	1	3/31/2020 9:52:22 PM	51413
Motor Oil Range Organics (MRO)	88	44		mg/Kg	1	3/31/2020 9:52:22 PM	51413
Surr: DNOP	97.4	55.1-146		%Rec	1	3/31/2020 9:52:22 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2020 2:38:59 AM	51406
Surr: BFB	99.1	66.6-105		%Rec	1	4/1/2020 2:38:59 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	4/1/2020 2:38:59 AM	51406
Toluene	ND	0.048		mg/Kg	1	4/1/2020 2:38:59 AM	51406
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2020 2:38:59 AM	51406
Xylenes, Total	ND	0.095		mg/Kg	1	4/1/2020 2:38:59 AM	51406
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	4/1/2020 2:38:59 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L2-2'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 3:34:00 PM
Lab ID: 2003C63-006 **Matrix:** SOIL **Received Date:** 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1500	60		mg/Kg	20	4/2/2020 4:06:14 AM	51492

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L2-3'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 3:40:00 PM
Lab ID: 2003C63-007 **Matrix:** SOIL **Received Date:** 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	230	60		mg/Kg	20	4/2/2020 4:18:39 AM	51492

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L3-Surface
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:36:00 PM
Lab ID: 2003C63-008 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	99	60		mg/Kg	20	4/2/2020 4:31:04 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	500	9.9		mg/Kg	1	3/31/2020 10:16:17 PM	51413
Motor Oil Range Organics (MRO)	490	49		mg/Kg	1	3/31/2020 10:16:17 PM	51413
Surr: DNOP	111	55.1-146		%Rec	1	3/31/2020 10:16:17 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2020 3:02:56 AM	51406
Surr: BFB	98.0	66.6-105		%Rec	1	4/1/2020 3:02:56 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	4/1/2020 3:02:56 AM	51406
Toluene	ND	0.048		mg/Kg	1	4/1/2020 3:02:56 AM	51406
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2020 3:02:56 AM	51406
Xylenes, Total	ND	0.097		mg/Kg	1	4/1/2020 3:02:56 AM	51406
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/1/2020 3:02:56 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L3-1'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:40:00 PM
Lab ID: 2003C63-009 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/2/2020 4:43:28 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	7.3		mg/Kg	1	3/31/2020 10:40:12 PM	51413
Motor Oil Range Organics (MRO)	ND	36		mg/Kg	1	3/31/2020 10:40:12 PM	51413
Surr: DNOP	95.9	55.1-146		%Rec	1	3/31/2020 10:40:12 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/1/2020 3:26:54 AM	51406
Surr: BFB	101	66.6-105		%Rec	1	4/1/2020 3:26:54 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/1/2020 3:26:54 AM	51406
Toluene	ND	0.047		mg/Kg	1	4/1/2020 3:26:54 AM	51406
Ethylbenzene	ND	0.047		mg/Kg	1	4/1/2020 3:26:54 AM	51406
Xylenes, Total	ND	0.095		mg/Kg	1	4/1/2020 3:26:54 AM	51406
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/1/2020 3:26:54 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L4-Surface
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:41:00 PM
Lab ID: 2003C63-010 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/2/2020 4:55:52 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	15	8.3		mg/Kg	1	3/31/2020 11:04:06 PM	51413
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/31/2020 11:04:06 PM	51413
Surr: DNOP	95.9	55.1-146		%Rec	1	3/31/2020 11:04:06 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/1/2020 3:50:49 AM	51406
Surr: BFB	99.2	66.6-105		%Rec	1	4/1/2020 3:50:49 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/1/2020 3:50:49 AM	51406
Toluene	ND	0.046		mg/Kg	1	4/1/2020 3:50:49 AM	51406
Ethylbenzene	ND	0.046		mg/Kg	1	4/1/2020 3:50:49 AM	51406
Xylenes, Total	ND	0.092		mg/Kg	1	4/1/2020 3:50:49 AM	51406
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/1/2020 3:50:49 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L4-1'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:43:00 PM
Lab ID: 2003C63-011 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	93	60		mg/Kg	20	4/2/2020 5:08:16 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/31/2020 11:27:57 PM	51413
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/31/2020 11:27:57 PM	51413
Surr: DNOP	96.0	55.1-146		%Rec	1	3/31/2020 11:27:57 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2020 4:14:47 AM	51406
Surr: BFB	99.8	66.6-105		%Rec	1	4/1/2020 4:14:47 AM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/1/2020 4:14:47 AM	51406
Toluene	ND	0.049		mg/Kg	1	4/1/2020 4:14:47 AM	51406
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2020 4:14:47 AM	51406
Xylenes, Total	ND	0.097		mg/Kg	1	4/1/2020 4:14:47 AM	51406
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/1/2020 4:14:47 AM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L5-Surface
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:52:00 PM
Lab ID: 2003C63-012 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/2/2020 5:20:40 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	11	7.9		mg/Kg	1	3/31/2020 11:51:51 PM	51413
Motor Oil Range Organics (MRO)	47	40		mg/Kg	1	3/31/2020 11:51:51 PM	51413
Surr: DNOP	93.2	55.1-146		%Rec	1	3/31/2020 11:51:51 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/1/2020 5:26:35 PM	51406
Surr: BFB	96.9	66.6-105		%Rec	1	4/1/2020 5:26:35 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/1/2020 5:26:35 PM	51406
Toluene	ND	0.047		mg/Kg	1	4/1/2020 5:26:35 PM	51406
Ethylbenzene	ND	0.047		mg/Kg	1	4/1/2020 5:26:35 PM	51406
Xylenes, Total	ND	0.095		mg/Kg	1	4/1/2020 5:26:35 PM	51406
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/1/2020 5:26:35 PM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L5-1'
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 2:57:00 PM
Lab ID: 2003C63-013 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	4/2/2020 5:33:05 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	8.2		mg/Kg	1	4/1/2020 12:15:43 AM	51413
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	4/1/2020 12:15:43 AM	51413
Surr: DNOP	96.2	55.1-146		%Rec	1	4/1/2020 12:15:43 AM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2020 5:50:19 PM	51406
Surr: BFB	97.8	66.6-105		%Rec	1	4/1/2020 5:50:19 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	4/1/2020 5:50:19 PM	51406
Toluene	ND	0.049		mg/Kg	1	4/1/2020 5:50:19 PM	51406
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2020 5:50:19 PM	51406
Xylenes, Total	ND	0.099		mg/Kg	1	4/1/2020 5:50:19 PM	51406
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/1/2020 5:50:19 PM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: SW1
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 3:55:00 PM
Lab ID: 2003C63-014 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	580	60		mg/Kg	20	4/2/2020 11:29:59 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	2200	91		mg/Kg	10	4/1/2020 12:39:34 AM	51413
Motor Oil Range Organics (MRO)	1200	450		mg/Kg	10	4/1/2020 12:39:34 AM	51413
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 12:39:34 AM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	4/1/2020 7:01:35 PM	51406
Surr: BFB	100	66.6-105	D	%Rec	5	4/1/2020 7:01:35 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.12	D	mg/Kg	5	4/1/2020 7:01:35 PM	51406
Toluene	ND	0.23	D	mg/Kg	5	4/1/2020 7:01:35 PM	51406
Ethylbenzene	ND	0.23	D	mg/Kg	5	4/1/2020 7:01:35 PM	51406
Xylenes, Total	ND	0.47	D	mg/Kg	5	4/1/2020 7:01:35 PM	51406
Surr: 4-Bromofluorobenzene	100	80-120	D	%Rec	5	4/1/2020 7:01:35 PM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: SW2
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 4:05:00 PM
Lab ID: 2003C63-015 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	250	60		mg/Kg	20	4/2/2020 11:42:24 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	810	99		mg/Kg	10	4/1/2020 1:03:21 AM	51413
Motor Oil Range Organics (MRO)	600	490		mg/Kg	10	4/1/2020 1:03:21 AM	51413
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 1:03:21 AM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2020 7:25:17 PM	51406
Surr: BFB	108	66.6-105	S	%Rec	1	4/1/2020 7:25:17 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	4/1/2020 7:25:17 PM	51406
Toluene	ND	0.050		mg/Kg	1	4/1/2020 7:25:17 PM	51406
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2020 7:25:17 PM	51406
Xylenes, Total	ND	0.10		mg/Kg	1	4/1/2020 7:25:17 PM	51406
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/1/2020 7:25:17 PM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: SW3
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 4:20:00 PM
Lab ID: 2003C63-016 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	4/2/2020 11:54:48 AM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/1/2020 1:27:08 AM	51413
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2020 1:27:08 AM	51413
Surr: DNOP	94.1	55.1-146		%Rec	1	4/1/2020 1:27:08 AM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2020 7:48:50 PM	51406
Surr: BFB	98.4	66.6-105		%Rec	1	4/1/2020 7:48:50 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	4/1/2020 7:48:50 PM	51406
Toluene	ND	0.049		mg/Kg	1	4/1/2020 7:48:50 PM	51406
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2020 7:48:50 PM	51406
Xylenes, Total	ND	0.099		mg/Kg	1	4/1/2020 7:48:50 PM	51406
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/1/2020 7:48:50 PM	51406

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

Qualifiers:

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

Analytical Report
Lab Order **2003C63**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: SW4
Project: Gaucho 21 Federal 2H
Collection Date: 3/26/2020 4:40:00 PM
Lab ID: 2003C63-017 **Matrix:** SOIL
Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	4/2/2020 12:07:12 PM	51492
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/1/2020 1:50:57 AM	51413
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/1/2020 1:50:57 AM	51413
Surr: DNOP	85.7	55.1-146		%Rec	1	4/1/2020 1:50:57 AM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/1/2020 8:12:17 PM	51406
Surr: BFB	102	66.6-105		%Rec	1	4/1/2020 8:12:17 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	4/1/2020 8:12:17 PM	51406
Toluene	ND	0.046		mg/Kg	1	4/1/2020 8:12:17 PM	51406
Ethylbenzene	ND	0.046		mg/Kg	1	4/1/2020 8:12:17 PM	51406
Xylenes, Total	ND	0.093		mg/Kg	1	4/1/2020 8:12:17 PM	51406
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	4/1/2020 8:12:17 PM	51406

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C63**
06-Apr-20

Client: Souder, Miller & Associates
Project: Gaucho 21 Federal 2H

Sample ID: **MB-51491** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **51491** RunNo: **67773**
Prep Date: **4/1/2020** Analysis Date: **4/1/2020** SeqNo: **2340722** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51491** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **51491** RunNo: **67773**
Prep Date: **4/1/2020** Analysis Date: **4/1/2020** SeqNo: **2340723** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Sample ID: **MB-51492** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **51492** RunNo: **67782**
Prep Date: **4/1/2020** Analysis Date: **4/2/2020** SeqNo: **2341201** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51492** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **51492** RunNo: **67782**
Prep Date: **4/1/2020** Analysis Date: **4/2/2020** SeqNo: **2341202** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C63**
06-Apr-20

Client: Souder, Miller & Associates
Project: Gaucho 21 Federal 2H

Sample ID: **MB-51413** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51413** RunNo: **67721**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339282** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	55.1	146			

Sample ID: **LCS-51413** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51413** RunNo: **67721**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339317** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.3	70	130			
Surr: DNOP	4.6		5.000		92.0	55.1	146			

Sample ID: **LCS-51460** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51460** RunNo: **67718**
Prep Date: **3/31/2020** Analysis Date: **4/2/2020** SeqNo: **2341419** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	55.1	146			

Sample ID: **MB-51460** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51460** RunNo: **67718**
Prep Date: **3/31/2020** Analysis Date: **4/2/2020** SeqNo: **2341420** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C63**
06-Apr-20

Client: Souder, Miller & Associates
Project: Gaucho 21 Federal 2H

Sample ID: **mb-51406**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **51406**	RunNo: **67722**
Prep Date: **3/30/2020**	Analysis Date: **4/1/2020**	SeqNo: **2338693** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	66.6	105			

Sample ID: **lcs-51406**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **51406**	RunNo: **67722**
Prep Date: **3/30/2020**	Analysis Date: **3/31/2020**	SeqNo: **2338694** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	80	120			
Surr: BFB	1100		1000		109	66.6	105			S

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C63**
06-Apr-20

Client: Souder, Miller & Associates
Project: Gaucho 21 Federal 2H

Sample ID: **mb-51406**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **51406**	RunNo: **67722**							
Prep Date: **3/30/2020**	Analysis Date: **4/1/2020**	SeqNo: **2338892**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: **LCS-51406**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **51406**	RunNo: **67722**							
Prep Date: **3/30/2020**	Analysis Date: **3/31/2020**	SeqNo: **2338893**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

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

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

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 2003C63 RcptNo: 1

Received By: **Erin Melendrez** 3/28/2020 8:15:00 AM

Completed By: **Erin Melendrez** 3/28/2020 3:00:12 PM

Reviewed By: JR 3/30/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 3/30/20

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good				
2	5.0	Good				

Chain-of-Custody Record

Client: SMA

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day
☑ Standard ☐ Rush

Project Name: Gaucho 21 Federal 2H

Project #:

Project Manager: Ashley Maxwell

Sampler: SO

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 2.9-0.2(CF) = 2.7 (°C)
5.2-0.2(CF) = 5.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2003063	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/26/20	2:24	Soil	L1 - Surface	(402)	Cool	-001	X	X					X			
	2:26		L1 - 1'			-002	X	X					X			
	3:32		L1 - 2'			-003							X			
	2:30		L2 - Surface			-004	X	X					X			
	2:34		L2 - 1'			-005	X	X					X			
	3:34		L2 - 2'			-006							X			
	3:40		L2 - 3'			-007							X			
	2:36		L3 - Surface			-008	X	X					X			
	2:40		L3 - 1'			-009	X	X					X			
	2:41		L4 - Surface			-010	X	X					X			
	2:43		L4 - 1'			-011	X	X					X			
	2:52		L5 - Surface			-012	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/27/20	14:00	Rebecca Droge			3/27	1400
3/27	1900			courier	3/28/20	0815

Remarks: Bill Devon 2 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: SMA

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day
☑ Standard ☐ Rush

Project Name: Gaucho 21 Federal 2H

Project #:

Project Manager: Ashley Maxwell

Sampler: SO

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 2.9+0.2(CF) = 2.7 (°C)
5.2-0.2(CF) = 5.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2003063	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/26/20	2:57	Soil	L5-1'	(4oz)	Cool	-013	X	X					X			
	3:55		SW1			-014										
	4:05		SW2			-015										
	4:20		SW3			-016										
	4:40		SW4			-017										

Date	Time	Relinquished by	Received by	Via	Date	Time
3/27/20	14:00	Alexis Dragoo				
3/27	1900			Courier	3/28/20	0815

Remarks: Bill Devon

1 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 13, 2020

Ashley Maxwell

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

RE: Gaucho 21 Fed 2H OrderNo.: 2004404

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/9/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2004404**
Date Reported: **4/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L2-2'
Project: Gaucho 21 Fed 2H
Collection Date: 3/26/2020 3:34:00 PM
Lab ID: 2004404-001 **Matrix:** SOIL **Received Date:** 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.3	H	mg/Kg	1	4/11/2020 10:46:53 AM	51703
Motor Oil Range Organics (MRO)	ND	47	H	mg/Kg	1	4/11/2020 10:46:53 AM	51703
Surr: DNOP	93.1	55.1-146	H	%Rec	1	4/11/2020 10:46:53 AM	51703
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	4/12/2020 1:17:51 PM	51694
Surr: BFB	97.8	66.6-105	H	%Rec	1	4/12/2020 1:17:51 PM	51694

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

Qualifiers:

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

Analytical Report
Lab Order **2004404**
Date Reported: **4/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L2-3'
Project: Gaucho 21 Fed 2H
Collection Date: 3/26/2020 3:40:00 PM
Lab ID: 2004404-002 **Matrix:** SOIL **Received Date:** 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.6	H	mg/Kg	1	4/11/2020 11:10:56 AM	51703
Motor Oil Range Organics (MRO)	ND	48	H	mg/Kg	1	4/11/2020 11:10:56 AM	51703
Surr: DNOP	91.8	55.1-146	H	%Rec	1	4/11/2020 11:10:56 AM	51703
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7	H	mg/Kg	1	4/12/2020 1:41:13 PM	51694
Surr: BFB	97.9	66.6-105	H	%Rec	1	4/12/2020 1:41:13 PM	51694

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

Qualifiers:

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

Analytical Report
Lab Order **2004404**
Date Reported: **4/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: SW1 -(2)
Project: Gaucho 21 Fed 2H
Collection Date: 4/7/2020 2:59:00 PM
Lab ID: 2004404-004 **Matrix:** SOIL **Received Date:** 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/11/2020 9:27:07 PM	51736
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/10/2020 6:33:56 PM	51699
Surr: BFB	99.0	70-130		%Rec	1	4/10/2020 6:33:56 PM	51699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/11/2020 11:35:03 AM	51703
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/11/2020 11:35:03 AM	51703
Surr: DNOP	67.4	55.1-146		%Rec	1	4/11/2020 11:35:03 AM	51703
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	4/10/2020 6:33:56 PM	51699
Toluene	ND	0.049		mg/Kg	1	4/10/2020 6:33:56 PM	51699
Ethylbenzene	ND	0.049		mg/Kg	1	4/10/2020 6:33:56 PM	51699
Xylenes, Total	ND	0.097		mg/Kg	1	4/10/2020 6:33:56 PM	51699
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%Rec	1	4/10/2020 6:33:56 PM	51699
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	4/10/2020 6:33:56 PM	51699
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	4/10/2020 6:33:56 PM	51699
Surr: Toluene-d8	93.1	70-130		%Rec	1	4/10/2020 6:33:56 PM	51699

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

Analytical Report
Lab Order **2004404**
Date Reported: **4/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: SW2 -(1)
Project: Gaucho 21 Fed 2H
Collection Date: 4/7/2020 3:05:00 PM
Lab ID: 2004404-005 **Matrix:** SOIL **Received Date:** 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	600	60		mg/Kg	20	4/11/2020 9:39:28 PM	51736
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/10/2020 7:02:28 PM	51699
Surr: BFB	105	70-130		%Rec	1	4/10/2020 7:02:28 PM	51699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	980	17		mg/Kg	2	4/11/2020 11:59:14 AM	51703
Motor Oil Range Organics (MRO)	610	86		mg/Kg	2	4/11/2020 11:59:14 AM	51703
Surr: DNOP	111	55.1-146		%Rec	2	4/11/2020 11:59:14 AM	51703
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	4/10/2020 7:02:28 PM	51699
Toluene	ND	0.048		mg/Kg	1	4/10/2020 7:02:28 PM	51699
Ethylbenzene	ND	0.048		mg/Kg	1	4/10/2020 7:02:28 PM	51699
Xylenes, Total	ND	0.097		mg/Kg	1	4/10/2020 7:02:28 PM	51699
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	1	4/10/2020 7:02:28 PM	51699
Surr: 4-Bromofluorobenzene	73.2	70-130		%Rec	1	4/10/2020 7:02:28 PM	51699
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	4/10/2020 7:02:28 PM	51699
Surr: Toluene-d8	94.2	70-130		%Rec	1	4/10/2020 7:02:28 PM	51699

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004404**
13-Apr-20

Client: Souder, Miller & Associates
Project: Gaucho 21 Fed 2H

Sample ID: **MB-51736**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51736**	RunNo: **68062**							
Prep Date: **4/11/2020**	Analysis Date: **4/11/2020**	SeqNo: **2352424**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51736**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51736**	RunNo: **68062**							
Prep Date: **4/11/2020**	Analysis Date: **4/11/2020**	SeqNo: **2352425**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004404**

13-Apr-20

Client: Souder, Miller & Associates

Project: Gaucho 21 Fed 2H

Sample ID: **MB-51703**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **51703**	RunNo: **68041**
Prep Date: **4/10/2020**	Analysis Date: **4/11/2020**	SeqNo: **2351310** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.4	55.1	146			

Sample ID: **LCS-51703**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **51703**	RunNo: **68041**
Prep Date: **4/10/2020**	Analysis Date: **4/11/2020**	SeqNo: **2351311** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.8		5.000		96.9	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004404**

13-Apr-20

Client: Souder, Miller & Associates

Project: Gaucho 21 Fed 2H

Sample ID: **mb-51694**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **51694**	RunNo: **68059**
Prep Date: **4/9/2020**	Analysis Date: **4/12/2020**	SeqNo: **2352101** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.9	66.6	105			

Sample ID: **LCS-51694**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **51694**	RunNo: **68059**
Prep Date: **4/9/2020**	Analysis Date: **4/12/2020**	SeqNo: **2352103** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	80	120			
Surr: BFB	1100		1000		110	66.6	105			S

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004404**
13-Apr-20

Client: Souder, Miller & Associates
Project: Gaucho 21 Fed 2H

Sample ID: **mb-51699** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **51699** RunNo: **68033**
Prep Date: **4/9/2020** Analysis Date: **4/10/2020** SeqNo: **2351013** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.5	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.6	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID: **lcs-51699** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **51699** RunNo: **68033**
Prep Date: **4/9/2020** Analysis Date: **4/10/2020** SeqNo: **2351014** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.3	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.2	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.3	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: Toluene-d8	0.46		0.5000		91.4	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004404**

13-Apr-20

Client: Souder, Miller & Associates

Project: Gaucho 21 Fed 2H

Sample ID: **mb-51699**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **51699**	RunNo: **68033**
Prep Date: **4/9/2020**	Analysis Date: **4/10/2020**	SeqNo: **2351027** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		101	70	130			

Sample ID: **lcs-51699**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **51699**	RunNo: **68033**
Prep Date: **4/9/2020**	Analysis Date: **4/10/2020**	SeqNo: **2351028** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.4	70	130			
Surr: BFB	510		500.0		103	70	130			

Sample ID: **2004404-005ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **SW2 -(1)**	Batch ID: **51699**	RunNo: **68033**
Prep Date: **4/9/2020**	Analysis Date: **4/10/2020**	SeqNo: **2351031** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.56	2.331	110	70	130			
Surr: BFB	520		491.2		106	70	130			

Sample ID: **2004404-005amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **SW2 -(1)**	Batch ID: **51699**	RunNo: **68033**
Prep Date: **4/9/2020**	Analysis Date: **4/10/2020**	SeqNo: **2351032** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.70	2.331	108	70	130	1.13	20	
Surr: BFB	530		494.1		106	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **SMA-CARLSBAD** Work Order Number: **2004404** RcptNo: **1**

Received By: **Juan Rojas** **4/9/2020 8:25:00 AM**

Completed By: **Isaiah Ortiz** **4/9/2020 10:38:40 AM**

Reviewed By: JR 4/9/20

Chain of Custody

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

Log In

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

IO

# of preserved bottles checked for pH: 4/9/20

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Not Present			
2	0.3	Good	Not Present			

Chain-of-Custody Record

Client: SMA

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day
☑ Standard ☐ Rush

Project Name: Gaucho 21 Fed 2H

Project #:

Project Manager: Ashley Maxwell

Sampler: SO

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 2.4-0.3=2.1 (°C)

0.6-0.3=0.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2004404	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/26/20	3:34	Soil	L2-21*	402	Cool	001		X								
↓	3:40		L2-31*			002		X								
4/7/20	2:55		SW1-(1)			003	X	X					X			
	2:59		SW1-(2)			004	X	X					X			
	3:05		SW2-(1)			005	X	X					X			
↓	3:10	↓	SW2-(2)	↓	↓	006	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/8/20	1330	Sebastian Orozco			4/8/20	1330
4/8/20	1900			courier	4/9/20	8:15

Remarks: Hold SW1-(1) & SW2-(2)

Bill Devon Directly

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 21, 2020

Ashley Maxwell

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

RE: Gaucho 21 OrderNo.: 2007636

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/14/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2007636**
Date Reported: **7/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: SW1
Project: Gaucho 21
Collection Date: 7/10/2020 4:30:00 PM
Lab ID: 2007636-001 **Matrix:** SOIL **Received Date:** 7/14/2020 9:53:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	7/17/2020 3:14:08 PM	53790
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2020 5:30:12 AM	53712
Surr: BFB	98.9	70-130		%Rec	1	7/17/2020 5:30:12 AM	53712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2020 12:14:50 AM	53718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2020 12:14:50 AM	53718
Surr: DNOP	72.9	55.1-146		%Rec	1	7/17/2020 12:14:50 AM	53718
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.025		mg/Kg	1	7/17/2020 5:30:12 AM	53712
Toluene	ND	0.049		mg/Kg	1	7/17/2020 5:30:12 AM	53712
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2020 5:30:12 AM	53712
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2020 5:30:12 AM	53712
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%Rec	1	7/17/2020 5:30:12 AM	53712
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	7/17/2020 5:30:12 AM	53712
Surr: Dibromofluoromethane	106	70-130		%Rec	1	7/17/2020 5:30:12 AM	53712
Surr: Toluene-d8	107	70-130		%Rec	1	7/17/2020 5:30:12 AM	53712

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007636**

21-Jul-20

Client: Souder, Miller & Associates

Project: Gaucho 21

Sample ID: **MB-53790**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **53790**	RunNo: **70420**							
Prep Date: **7/17/2020**	Analysis Date: **7/17/2020**	SeqNo: **2449408**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53790**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **53790**	RunNo: **70420**							
Prep Date: **7/17/2020**	Analysis Date: **7/17/2020**	SeqNo: **2449409**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007636**

21-Jul-20

Client: Souder, Miller & Associates

Project: Gaucho 21

Sample ID: **LCS-53718** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **53718** RunNo: **70424**

Prep Date: **7/15/2020** Analysis Date: **7/16/2020** SeqNo: **2448151** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.6	70	130			
Surr: DNOP	3.6		5.000		71.7	55.1	146			

Sample ID: **MB-53718** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **53718** RunNo: **70424**

Prep Date: **7/15/2020** Analysis Date: **7/16/2020** SeqNo: **2448153** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.2		10.00		72.3	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007636**
21-Jul-20

Client: Souder, Miller & Associates
Project: Gaucho 21

Sample ID: **mb-53712** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **53712** RunNo: **70404**
Prep Date: **7/14/2020** Analysis Date: **7/16/2020** SeqNo: **2447460** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.2	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: **lcs-53712** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **53712** RunNo: **70404**
Prep Date: **7/14/2020** Analysis Date: **7/16/2020** SeqNo: **2447461** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.8	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.8	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID: **mb-53743** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **53743** RunNo: **70438**
Prep Date: **7/15/2020** Analysis Date: **7/17/2020** SeqNo: **2448698** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: **lcs-53743** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **53743** RunNo: **70438**
Prep Date: **7/15/2020** Analysis Date: **7/17/2020** SeqNo: **2448699** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.5	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007636**
21-Jul-20

Client: Souder, Miller & Associates
Project: Gaucho 21

Sample ID: **lcs-53743** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **53743** RunNo: **70438**
Prep Date: **7/15/2020** Analysis Date: **7/17/2020** SeqNo: **2448699** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.50		0.5000		101	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007636**

21-Jul-20

Client: Souder, Miller & Associates

Project: Gaucho 21

Sample ID: **mb-53712**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **53712**	RunNo: **70404**
Prep Date: **7/14/2020**	Analysis Date: **7/16/2020**	SeqNo: **2447478** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.8	70	130			

Sample ID: **lcs-53712**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **53712**	RunNo: **70404**
Prep Date: **7/14/2020**	Analysis Date: **7/16/2020**	SeqNo: **2447479** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.8	70	130			
Surr: BFB	480		500.0		96.5	70	130			

Sample ID: **mb-53743**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **53743**	RunNo: **70438**
Prep Date: **7/15/2020**	Analysis Date: **7/17/2020**	SeqNo: **2448759** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	480		500.0		95.8	70	130			

Sample ID: **lcs-53743**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **53743**	RunNo: **70438**
Prep Date: **7/15/2020**	Analysis Date: **7/17/2020**	SeqNo: **2448760** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	460		500.0		92.0	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller & Associates | Work Order Number: 2007636 | RcptNo: 1

Received By: Juan Rojas 7/14/2020 9:53:00 AM

Completed By: Juan Rojas 7/14/2020 11:19:22 AM

Reviewed By: SPA 7.14.20

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 7/14/20

Special Handling (if applicable)

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

Person Notified: Sebastian Orozco Date: 7/15/20

By Whom: Leah Baca Via: ☑ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: Collection time discrepancy

Client Instructions: Use time on COC

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	1.0	Good				

Chain-of-Custody Record

Client: SMA

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5day Turn
☑ Standard ☐ Rush

Project Name: Gaucho 21

Project #:

Project Manager: Ashley Maxwell

Sampler: SO

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 0.7-0.1=0.6(°C)

1.1-0.1=1.0

HEAL No. 2007636

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Analysis Request: (BTEX) MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(Cl), F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
7/10/20	4:30		~~GST~~ SO SW1	4oz	Cool	-001	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/13/20	0800	[signature]	[signature]		7/13/20	0800
7/13/20	1900	[signature]	[signature]	courier	7/14/20	9:53

Remarks: Devon

PO # 20715201

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.