

May 25, 2018

#5E26784-BG4

NMOCD District II Mike Bratcher 811 S. First St. Artesia, NM 88210

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE GOLDEN D FEDERAL #004 (2RP-4551) RELEASE SITE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of XTO Energy, Inc. (XTO), Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, initial delineation and remediation for a release associated with the Golden D Federal #004 (2RP-4551). The site is located in UNIT E, SECTION 16, TOWNSHIP 21S, RANGE 29E, NMPM, Eddy County, New Mexico, on Federal and State land. Figure 1 illustrates the vicinity and location of the site. Table 1, below, summarizes information regarding the release.

Table 1: Rele	ase Information and Site Ranking
Name	Golden D Federal #004
Company	XTO Energy Inc
Incident Number	2RP-4551
API Number	30-015-35636
Location	32.481906, -103.9908092
Estimated Date of Release	12/21/2017
Date Reported to NMOCD	12/21/2017
Land Owner	BLM/State
Reported To	NMOCD District II
Source of Release	Flow Line
Released Material	Produced Water
Released Volume	26 bbl
Recovered Volume	0 bbl
Net Release	26 bbl
Nearest Waterway	Old Indian Draw is approximately 5 miles south of location
Depth to Groundwater	Estimated to be greater than 100'
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	0
SMA Response Dates	12/21/2017, 1/15/2018, 4/4/2018, 4/5/2018

Golden D Federal #004 (2RP-4551) May 25, 2018 Page 2 of 4

#### 1.0 Background

On December 21, 2017, a leak formed on the steel surface flowline of the Golden D Federal #004 pipeline due to a loose hammer union. The release impacted approximately 4,988 square feet of lease road that includes both federal and state surface.

#### 2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 13 miles east of Carlsbad, with an elevation of approximately 3,344 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. Several wells are located within a three-mile radius of the site, all of which have a depth of groundwater greater than 100 feet. After further evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below, Table 2 summarizes the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
ТРН	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	
50' to 99' = 10	
>100' = 0	0
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	0
Total Site Ranking	0

#### 3.0 Release Characterization

On December 21, 2017, SMA field personnel assessed the release area and collected delineation samples. Four sample locations (L1-L4) along the flow path were augured by hand to a maximum depth of two feet bgs. Soil samples were field-screened for chlorides with a mobile titration unit (EPA 4500).

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On January 15, 2018, SMA field personnel returned to the site to further delineate vertical contamination at sample locations L1 and L2. These locations were augured by hand to a maximum of three feet bgs due to the confining layer of caliche. The soil samples were again field-screened for chlorides with a mobile titration unit (EPA 4500).

All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for MRO, DRO, and GRO by EPA Method 8015D (L1 at 0.5 feet), BTEX by EPA Method 8021 (L1 at 0.5 feet), and Chlorides by Method 300 (all samples). Sample locations are depicted on Figure 2. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

Laboratory results indicated that hydrocarbon impacts are below NMOCD screening RRALs, and chloride impacts decreased with depth.

#### 4.0 Remediation

On April 4 and 5, 2018 after approval from area utilities via 811, SMA personnel was on location to guide and oversee the remediation of impacted soils. The area surrounding sample points L1 and L2 was excavated to a total of 4 feet bgs, while the rest of the impacted area was excavated from 3 feet bgs to 0.5 feet bgs, as outlined in Table 3. Three additional locations were sampled (L5-L7), and each location was sampled from the bottom of the excavation. In addition, a total of 12 sidewall samples were collected to ensure horizontal delineation.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported for proper disposal at an NMOCD permitted disposal facility.

#### 5.0 Scope and Limitations

The scope of our services consisted of the performance of verification of release stabilization, assessment and closure sampling, regulatory liaison, and preparation of 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 Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES

I Austr Wevant

Reviewed by:

Austin Weyant

Project Scientist

Shawna Chubbuck Senior Scientist

Shauna Chubbuck

Golden D Federal #004 (2RP-4551) May 25, 2018 Page 4 of 4

#### **ATTACHMENTS:**

#### Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Site and Sample Location Map

#### Tables:

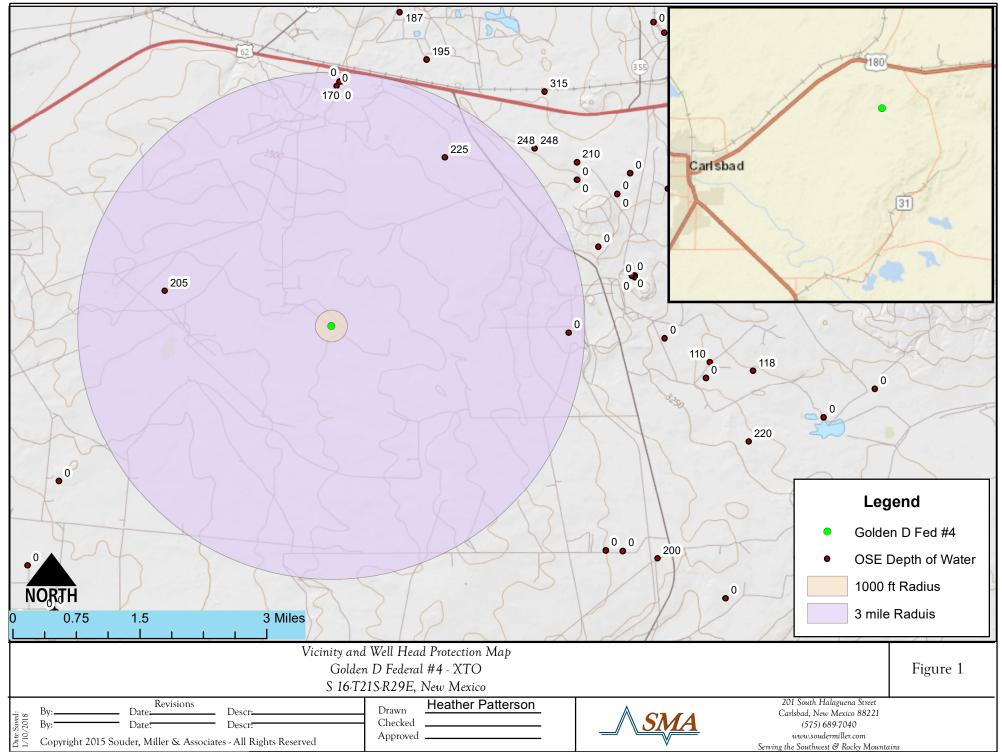
Table 3: Summary of Sample Results

#### Appendices:

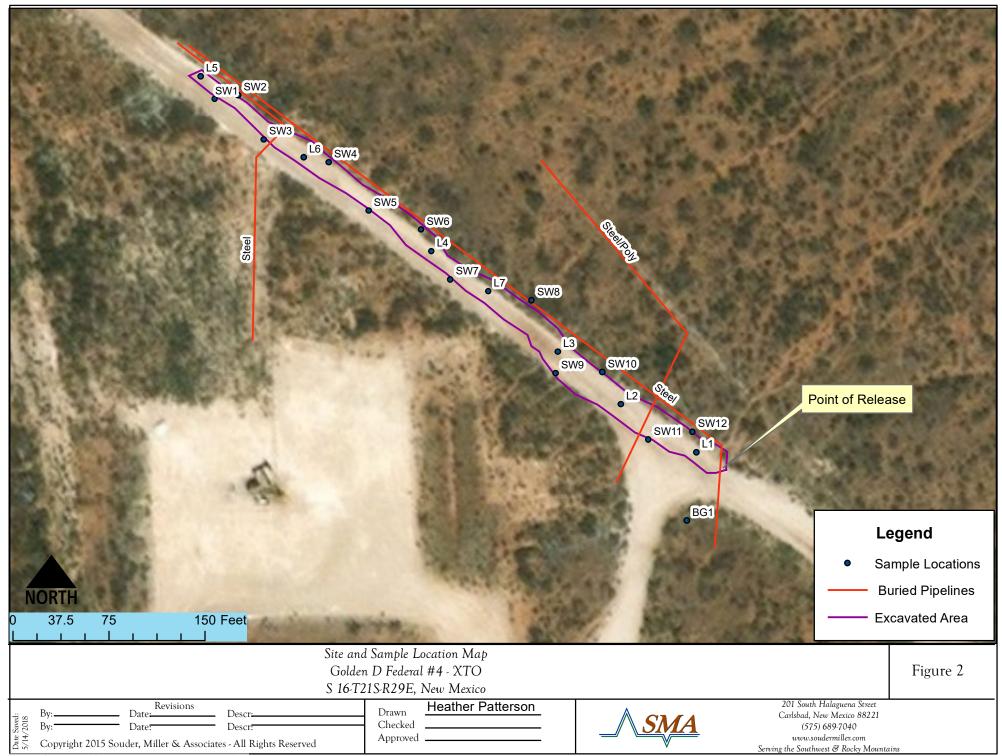
Appendix A: Form C141 Initial and Final Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

# FIGURE 1 VICINITY AND NMOSE DATA MAP



## FIGURE 2 SITE AND SAMPLE LOCATION MAP



## TABLE 3 SUMMARY SAMPLE RESULTS

#### **Golden D Federal #004**

Table 3.

Sample				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Action Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens (ppm)	Laboratory mg/Kg
	NMOCD RRAL's f	for Site Rankin	g 0	50 mg/Kg	10 mg/Kg				5000 mg/Kg		
	12/21/2017	0.5	excavated	<0.24	<0.24	14	150	71	235		14000
	12/21/2017	1	excavated								7000
L1	1/15/2018	2	excavated							1705	1700
	1/15/2018	3	excavated							839	940
	4/5/2018	4	in-situ	<0.23	<0.023	<4.7	<9.3	<47	<62	262	280
	12/21/2017	0.5	excavated								8400
	12/21/2017	1	excavated								8700
L2	12/21/2017	2	excavated								4900
LZ	1/15/2018	2.5	excavated							2282	2500
	1/15/2018	3	excavated							969	800
	4/5/2018	3.5	in-situ			-				363	
	12/21/2017	0.5	excavated			-					7600
L3	12/21/2017	1	excavated			-					980
LS	12/21/2017	2	excavated			-					380
	4/5/2018	3	in-situ			-				363	130
	12/21/2017	0.5	excavated								7100
L4	12/21/2017	1	excavated			-				-	750
L4	12/21/2017	2	excavated			-				-	460
	4/5/2018	2.5	in-situ								<30
L5	4/5/2018	0.5	in-situ								30
L6	4/5/2018	1	in-situ	<0.23	<0.025	<4.9	<9.2	<46	<61	<271	400
17	4/5/2018	1	excavated							<271	130
L7	4/5/2018	2	in-situ			-				<271	91
BG1	12/21/2017	1	in-situ								<30
SW1	4/4/2018	sidewall	in-situ							<271	43
SW2	4/4/2018	sidewall	excavated			-				-	1600
344.2	5/18/2018	sidewall	in-situ								210

Sample				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	CI-
Number on Figure 2	lumber on Sample Date   Depth   Action   Taken	Action Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens (ppm)	Laboratory mg/Kg	
	NMOCD RRAL's for Site Ranking 0		50 mg/Kg	10 mg/Kg				5000 mg/Kg			
SW3	4/4/2018	sidewall	in-situ							392	310
SW4	4/4/2018	sidewall	in-situ							<271	
SW5	4/4/2018	sidewall	in-situ							<271	130
SW6	4/4/2018	sidewall	excavated								1900
3000	5/18/2018	sidewall	in-situ								150
SW7	4/4/2018	sidewall	in-situ							334	
SW8	4/4/2018	sidewall	in-situ							363	230
SW9	4/4/2018	sidewall	in-situ							291	150
SW10	4/4/2018	sidewall	in-situ							420	150
SW11	4/4/2018	sidewall	in-situ							594	500
SW12	4/4/2018	sidewall	in-situ								210

<sup>&</sup>quot;--" = Not Analyzed

### APPENDIX A FORM C141 INITIAL AND FINAL

MM OIL CONSERVATION

ARTESIA DISTRICT 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210

State of New Mexico

JAN 0 4 2018 Minerals and Natural Resources

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 RECEIVED

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

NM OIL CONSERVATION

Form C-141 Revised April 3, 2017 ARTESIA DISTRICT

Submit Copy (Capperopriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Dullu 1	'C, INIVI 87303										
Release Notification	n and Corrective Actio	n									
NAB 1800 936367.	OPERATOR										
Name of Company: XTO Energy BOPCO 260737	Contact: Amy C. Ruth										
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 432-661-0571										
Facility Name: Golden D Federal #004 (location of well is on Federal, location of release point is on NM State Land)	Facility Type: Exploration and I	Production									
		T 4 D 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									
Surface Owner: Federal Mineral Owner:  Surface Owner: Federal Mineral Owner: Ow	rederal 7	API No: 30-015-35636									
LOCATIO	LUCATION OF RELEASE										
Unit Letter Section Township Range Feet from the Nort 21S 29E 1745 Nort		/West Line   County t   Eddy									
Latitude 32.481906° L	Latitude32.481906°Longitude103.998092°NAD83										
NATURE	E OF RELEASE										
Type of Release Produced Water	Volume of Release 26 bbls	Volume Recovered 0 bbls									
Source of Release Flow Line	Date and Hour of Occurrence 12/21/2017 time unknown	Date and Hour of Discovery 12/21/2017 9 am									
Was Immediate Notice Given?	If YES, To Whom?	MOCENIA TO A CONTROL									
☐ Yes ☐ No ☐ Not Required	•	MOCD), Shelly Tucker/Jim Amos (BLM)									
By Whom? Kyle Littrell Was a Watercourse Reached?	Date and Hour: 12/21/2017 3:35  If YES, Volume Impacting the Wa										
☐ Yes ⊠ No	N/A	itoreourse.									
If a Watercourse was Impacted, Describe Fully.* N/A											
Describe Cause of Problem and Remedial Action Taken.*  Steel surface flow line developed a leak due to a loose hammer union. T	he connection was tightened.										
Describe Area Affected and Cleanup Action Taken.*  The release impacted approximately 4,988 square feet of lease road runn  The release extended into NM State land at its east end across the road in  delineation and remediation effort.	ntersection. A remediation contractor	has been contacted to assist with the									
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediator the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulation.	notifications and perform corrective ac he NMOCD marked as "Final Report" ate contamination that pose a threat to	ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health									
Signature:	OIL CONSERS  Approved by Environmental Specialis	VATION DIVISION  ist: (1/1/2/17) (1/1/2/17)									
Printed Name: Amy C. Ruth	· · · · · · · · · · · · · · · · · · ·	More									
Title: Environmental Coordinator	Approval Date: 1818	Expiration pate:									
E-mail Address: Amy Ruth@xtoenergy.com	Conditions of Apployal:	Attached Attached 200-4551									
Date: 1/4/2018 Phone: 432-661-0571  Attach Additional Sheets If Necessary	300 000 000	1 01AP- 1001									

#### Operator/Responsible Party,

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 2/4/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

#### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Form C-141

Revised April 3, 2017

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

accordance with 19.15.29 NMAC.

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

**Release Notification and Corrective Action** 

Submit 1 Copy to appropriate District Office in

						OPERA'	ГOR		☐ Initi	al Report	$\boxtimes$	Final Report
Name of Co	mpany X7	ΓO Energy				Contact Ky	le Littrell				100001	
Address 52	2 W. Mern	od, Suite 70	04 Carlsb	ad, NM 88220		Telephone 1	No. 432-221-733	31				
Facility Na	me Golden	D Federal #	‡4			Facility Type Exploration and Production						
Surface Ow	ner Fed/S	tate		Mineral C	wner	er Federal API No. 30-015-35636						
<i>y</i>				LOCA	TIO	N OF RE	FASE		***			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
Е	16	21s	29e	1745	Nor	th	18	We	est	Eddy		
		La	titude_32	2.481906	Lor	ngitude1	03.998092	N	NAD83			
-	NATURE OF RELEASE											
Type of Rele							Release 26 bbls			Recovered		
Source of Re	lease flow	line				Date and F 12/21/201	Iour of Occurrenc 7	e	Date and 12/21/20	Hour of Dis	scovery	
Was Immedia	ate Notice C		Yes [	] No □ Not Re	equired	If YES, To Mike Brate	Whom? cher/Crystal Weav	ver (NM	OCD), She	elly Tucker/.	Jim Am	ios (BLM)
By Whom?	Kyle Littrell				-	Date and I	Hour 12/21/2017	3:35 pm	by email			
Was a Water							olume Impacting t					
			Yes 🗵	No		N/a						
If a Watercou	ırse was Imp	pacted, Descr	ibe Fully.	*								
Describe Cau	ise of Proble	em and Reme	dial Actio	n Taken *								
				ose hammer union	. The c	onnection wa	s repaired.					
Describe Are	a Affected a	and Cleanup A	Action Tak	cen.*		_						
The release in	npacted app	proximately 4	,899 squar	e feet of lease roa	d runnir	ng NW to SE	on the northeast s	side of tl	ne Golden	Lane 17 Fed	ieral #1	well pad.
The release e	xtended into	NM State La	and at its	east end across the	road in	tersection. R	emediation was p	erforme	d by third	party in acc	ordance	with the
INVIOCED app	noved work	pian.										
				is true and comp								
regulations al	ll operators:	are required t	o report ar	nd/or file certain re ce of a C-141 repo	elease n	otifications a	nd perform correc	tive acti	ons for rel	eases which	may er	ndanger
should their o	perations h	ave failed to a	acceptant	investigate and re	emediate	e contaminati	on that pose a thre	eport a	oes not rei ound wate	r surface wa	rator of ater hu	man health
or the enviror	nment. In a	ddition, NMC	CD accep	tance of a C-141	report d	oes not reliev	e the operator of i	responsi	bility for c	ompliance v	vith any	other
federal, state,	or local lav	vs and/or regu	ılations.	1								
		24		-	-		OIL CONS	<u>SERV</u>	<u>ATION</u>	DIVISIO	<u>N</u>	
Signature		Till	M	3								
Printed Name	Kyle Littr	7			Approved by Environmental Specialist:							
Title: Enviro						Approval Da	te:		Expiration	Date:		
E-mail Addre	ss: Kyle_I	ittrell@xtoer	nergy.com			Conditions of			Attached			
Date: 5-14-20	)18		Phone	e: 432-221-7331						/ titached	· Ш	

\* Attach Additional Sheets If Necessary

2RP-4551

### APPENDIX B NMOSE WELLS REPORT



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

(NAD83 UTM in meters)

(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)

(In feet)

	POD		_	0 0							D 11-	Danilla	<b>VA/</b> =4==
POD Number	Sub- Code basin	County		Q Q 16 4	•	Tws	Rng	Х	Υ	Distance	-	Depth Water	water Column
CP 00516	СР	ED	4	4 4	12	21S	28E	590901	3594984* 🌍	3277	275	205	70
CP 00430	СР	ED	1	4 1	03	21S	29E	596221	3597558*	3874	360	225	135
CP 00419	CP	ED		4 3	32	20S	30E	594250	3599003*	4694	262	170	92

Average Depth to Water: 200 feet

Minimum Depth: 170 feet

Maximum Depth: 225 feet

**Record Count: 3** 

**UTMNAD83 Radius Search (in meters):** 

Easting (X): 594108.67 Northing (Y): 3594310.44 Radius: 5000

\*UTM location was derived from PLSS - see Help

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

## APPENDIX C LABORATORY ANALYTICAL REPORTS



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

January 05, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Golden D4 Road OrderNo.: 1712E24

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/23/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1712E24**Date Reported: **1/5/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-001
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	14000	750	mg/Kg	500	1/3/2018 7:21:31 PM	35804
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	6			Analyst	: TOM
Diesel Range Organics (DRO)	150	10	mg/Kg	1	12/28/2017 8:49:02 PM	35723
Motor Oil Range Organics (MRO)	71	51	mg/Kg	1	12/28/2017 8:49:02 PM	35723
Surr: DNOP	95.9	70-130	%Rec	1	12/28/2017 8:49:02 PM	35723
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	14	4.8	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Surr: BFB	123	15-316	%Rec	1	12/29/2017 1:57:50 AM	35711
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Benzene	ND	0.024	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Toluene	ND	0.048	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Ethylbenzene	ND	0.048	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Xylenes, Total	ND	0.097	mg/Kg	1	12/29/2017 1:57:50 AM	35711
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	12/29/2017 1:57:50 AM	35711

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

- \* 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 Page 1 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-1

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-002
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	7000	300	mg/Kg	200 1/3/2018 7:33:56 PM	35804

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

- \* 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 Page 2 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1712E24** 

Date Reported: 1/5/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-003
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	8400	750	mg/Kg	500 1/3/2018 7:46:21 PM	35804

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

- \* 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 Page 3 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

#### **Analytical Report**

Lab Order **1712E24** 

Date Reported: 1/5/2018

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L2-1

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-004
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 8700
 750
 mg/Kg
 500
 1/3/2018 7:58:45 PM
 35804

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

- \* 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 Page 4 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

#### **Analytical Report**

Lab Order **1712E24**Date Reported: **1/5/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L2-2

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-005
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 4900
 300
 mg/Kg
 200
 1/3/2018 8:11:10 PM
 35804

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

- \* 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 Page 5 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

#### **Analytical Report**

Lab Order **1712E24**Date Reported: **1/5/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L3-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-006
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	7600	750	mg/Kg	500 1/3/2018 8:23:34 PM	35804

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

- \* 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 Page 6 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: L3-1

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-007
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Batch	
<b>EPA METHOD 300.0: ANIONS</b>					Analy	/st: CJS
Chloride	980	30	mg/Kg	20	1/2/2018 8:03:05 PM	35804

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

- \* 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 Page 7 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-2

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-008
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Ar	alyst: CJS
Chloride	380	30	mg/Kg	20 1/2/2018 8:15:30	PM 35804

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

- \* 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1712E24**Date Reported: **1/5/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-0.5

 Project:
 Golden D4 Road
 Collection Date: 12/21/2017 10:50:00 AM

 Lab ID:
 1712E24-009
 Matrix: SOIL
 Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	7100	750	mg/Kg	500 1/3/2018 8:35:59 PM	l 35804

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

- \* 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 Page 9 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712E24

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/5/2018

**CLIENT:** Souder, Miller & Associates Client Sample ID: L4-1

**Project:** Golden D4 Road **Collection Date:** 12/21/2017 10:50:00 AM Lab ID: 1712E24-010 Matrix: SOIL Received Date: 12/23/2017 8:30:00 AM

Analyses	Result PQL Qual Units		al Units	DF	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: CJS
Chloride	750	30	mg/Kg	20	1/2/2018 8:40:19 PM	35804

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 15 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1712E24 Date Reported: 1/5/2018

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L4-2

**CLIENT:** Souder, Miller & Associates **Project:** Golden D4 Road **Collection Date:** 12/21/2017 10:50:00 AM

Lab ID: 1712E24-011 Matrix: SOIL Received Date: 12/23/2017 8:30:00 AM

Analyses	Result	Result PQL Qual Units			DF Date Analyzed				
EPA METHOD 300.0: ANIONS					Analy	yst: CJS			
Chloride	460	30	mg/Kg	20	1/2/2018 8:52:43 PM	l 35804			

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 15 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1712E24** 

05-Jan-18

Client: Souder, Miller & Associates

**Project:** Golden D4 Road

Sample ID MB-35804 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 35804 RunNo: 48126

Prep Date: 1/2/2018 Analysis Date: 1/2/2018 SeqNo: 1545516 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-35804 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 35804 RunNo: 48126

Prep Date: 1/2/2018 Analysis Date: 1/2/2018 SeqNo: 1545517 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

#### 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 Detection Limit
- W Sample container temperature is out of limit as specified

Page 12 of 15

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1712E24 05-Jan-18

**Client:** Souder, Miller & Associates

**Project:** Golden D4 Road

Sample ID LCS-35723 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 35723 RunNo: 48061

Prep Date: 12/27/2017 Analysis Date: 12/28/2017 SeqNo: 1540950 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 48 50.00 0 95.6 73.2 114

Surr: DNOP 87.5 4.4 5.000 70 130

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-35723 SampType: MBLK

Batch ID: 35723 Client ID: PBS RunNo: 48061

Prep Date: Analysis Date: 12/28/2017 SeqNo: 1540955 12/27/2017 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 8.9 10.00 88.7 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Released to Imaging: 3/21/2023 8:07:23 AM

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1712E24** 

05-Jan-18

Client: Souder, Miller & Associates

**Project:** Golden D4 Road

Sample ID MB-35711 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 35711 RunNo: 48084

Prep Date: 12/26/2017 Analysis Date: 12/28/2017 SeqNo: 1541238 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 780 1000 77.6 15 316

Sample ID LCS-35711 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 35711 RunNo: 48084

980

Prep Date: 12/26/2017 Analysis Date: 12/28/2017 SeqNo: 1541239 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 108 75.9 131

97.5

15

316

#### Qualifiers:

Surr: BFB

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

Released to Imaging: 3/21/2023 8:07:23 AM

Page 14 of 15

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1712E24** 

05-Jan-18

Client: Souder, Miller & Associates

**Project:** Golden D4 Road

Sample ID MB-35711	Samp1	SampType: MBLK TestCode: EPA Method		d 8021B: Volatiles							
Client ID: PBS	Batcl	h ID: 35	711	RunNo: 48084							
Prep Date: 12/26/2017	Analysis D	Date: 12	2/28/2017	SeqNo: <b>1541278</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.10									
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	80	120				

Sample ID LCS-35711	SampT	Гуре: <b>LC</b>	s	TestCode: EPA Method			8021B: Vola	tiles		•	
Client ID: LCSS	Batcl	h ID: 35	711	RunNo: 48084							
Prep Date: 12/26/2017	Analysis D	Date: 12	2/28/2017	5	SeqNo: 1	541279	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	0.92	0.10	1.000	0	91.7	70.1	121				
Benzene	0.89	0.025	1.000	0	88.7	77.3	128				
Toluene	0.91	0.050	1.000	0	90.5	79.2	125				
Ethylbenzene	0.89	0.050	1.000	0	89.5	80.7	127				
Xylenes, Total	2.7	0.10	3.000	0	91.2	81.6	129				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120				

#### Qualifiers:

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

Page 15 of 15



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

#### Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Num	E24	RcptNo: 1				
Received By:	Andy Freeman	12/23/2017 8:30:00	) AM		21/-			
Completed By:	Michelle Garcia	12/26/2017 9:30:08			Michell G	•		
Reviewed By:	A,	12/20/2017 9.30.00	) VIAI		" pour G	anue)		
Chain of Cus	stody							
1. Custody sea	als intact on sample b	ottles?	Yes		No 🗌	Not Present	•	
2. Is Chain of	Custody complete?		Yes	•	No 🗆	Not Present	]	
3. How was th	e sample delivered?		Cour	<u>rier</u>				
<u>Log In</u>								
4. Was an atte	empt made to cool the	samples?	Yes	<b>V</b>	No 🗆	NA 🗆		
5. Were all sa	mples received at a te	mperature of >0° C to 6.0°C	Yes	<b>✓</b>	No 🗆	NA 🗆		
6. Sample(s) i	in proper container(s)?	,	Yes	<b>v</b>	No 🗌			
7. Sufficient sa	ample volume for indic	ated test(s)?	Yes	<b>V</b>	No 🗌			
8. Are samples	s (except VOA and ON	IG) properly preserved?	Yes	<b>✓</b>	No 🗆			
9. Was preser	vative added to bottles	6?	Yes		No 🔽	NA =		
10.VOA vials h	ave zero headspace?		Yes		No _	No VOA Vials 🗹	]	
11. Were any s	ample containers rece	ived broken?	Yes		No 🔽	#	·	
	work match bottle labe pancies on chain of c		Yes	<b>V</b>	No 🗆	# of preserved bottles checked for pH: ( </td <td>2 or &gt;12 unless noted)</td>	2 or >12 unless noted)	
	s correctly identified or		Yes	<u>v</u>	No _	Adjusted?		
14. Is it clear wh	nat analyses were requ	uested?	Yes	<b>Y</b>	No 🗀			
	ding times able to be		Yes	$\checkmark$	No 🗌	Checked by		
(If no, notify	customer for authoriz	ation.)		٠				
Special Hand	lling (if applicabl	<u>e)</u>						
16. Was client n	otified of all discrepan	cies with this order?	Yes		No 🗌	NA 🗹		
Persor	n Notified:	Date	processor in the state of the s	MOMOMBUSSICAL COLUMN			<del></del>	
By Wh	iom:	Via:	☐ eMa	ıil 🗌	Phone _ Fax	☐ In Person		
Regard	ding:	ilitaria (Malindria) ema terbestatata kitariania kini kitariania kerindria menengapuntan (Malindria kitaria)	***************************************			······································		
Client	Instructions:		<del>delina de la comp</del> ensa de la compensa del la compensa de la compensa del la compensa de la comp					
17. Additional re	emarks:	<del></del>				·- <u></u>		
18. Cooler Info								
Cooler No	<del></del>		Seal Da	te	Signed By			
<b>[</b> 1	2.0 Good	Yes						
Page 1 of	<u> </u>	<del>_</del> <del></del>	<del></del> -				<u></u>	

Client:	M	E CM C II A	T'		1		٩	Ì	ALL	EZ	/IR	NO	MEN	HALL ENVIRONMENTAL
		- ( as (she	□ Standard		Jan			4	MAL	YSI	SL	ABO	RA	ANALYSIS LABORATORY
			rioject Name.		(			8	ww.hall	www.hallenvironmental.com	menta	al.com		
Mailing Address:	ess:		PIOS	es 104	Rond	39	4901 Hawkins NE	awkins	NE -	Albuan	lerque	Albuquerane, NM 87109	7109	
			Project #:			_	Tel. 50	Tel. 505-345-3975	3975	Fax	505-3	Fax 505-345-4107	7	
Phone #:									Ā	<b>Analysis Request</b>	Requ	est		
email or Fax#:	#.		Project Manager:	iger:		12.00		-		(*				L
QA/QC Package:	:ebi		4	rsho L	7778		34		(SI	OS'*C	3.00.00	-		
□ Standard		☐ Level 4 (Full Validation)	-		2	200			NIS	)d'			ł	
Accreditation	n Other	Jer	Sampler:	AAM	2	ALANNA N				NO2		(		
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= EDD (Type)	(e)		Sample Temperature:	perature: /, }	9+0,1=2.0					-	əpic	0.000		
Date Time	ne Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	LEX + WI	H 8012E	rtieM) Heth	r£8) a'H/	M 8 AR: A) snoi	st Pestio	OV) 808 ime2) 07		
					HISE 3H		21/12/2					15000		
2-247 16:50	50 50	1 61-0.5	400		001	X	X			X				
	-	1-17	1		002			_		×				
		12-0.5			002			_		5×				
		(2-1			COM					٧				
		7-27			700					×				
		43-0.5			200					×				
		43-1			L03					×				
_	_	13-2			Cos			_		X				
-		24-0.5	1		1009					乂				
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M		7-77	1		011					X				
2-21-7 9'w	Relinqui	article by:	Receired	1	Date Time	Remarks:	2000	CA.						
Pate: Time.	à	Imayshed by:	Re Wad by		Date Time (1/23/17			2						



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

January 24, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Golden Federal Road OrderNo.: 1801836

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/17/2018 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

**Analyses** 

**Analytical Report** 

**DF** Date Analyzed

Lab Order:

Lab Order: 1801836

Date Reported: 1/24/2018

1801836

**Batch ID** 

**Batch ID** 

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

Project: Golden Federal Road

1801836-001 **Collection Date:** 1/15/2018 10:08:00 AM Lab ID:

Client Sample ID: L1-2' Matrix: SOIL Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1700 75 mg/Kg 50 1/23/2018 7:56:47 PM 36110

**PQL Qual Units** 

Lab ID: 1801836-002 **Collection Date:** 1/15/2018 10:47:00 AM

Client Sample ID: L1-3' Matrix: SOIL

Result

**PQL Qual Units DF** Date Analyzed **Analyses EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 940 30 mg/Kg 1/19/2018 4:10:35 PM 36110

Lab ID: **Collection Date:** 1/15/2018 11:34:00 AM 1801836-003

Client Sample ID: L2-2.5' Matrix: SOIL

**POL Qual Units** Analyses Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

75 50 1/23/2018 8:09:11 PM Chloride 2500 mg/Kg 36110

Lab ID: 1801836-004 **Collection Date:** 1/15/2018 12:04:00 PM

Client Sample ID: L2-3' Matrix: SOIL

**POL Qual Units** Analyses Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 800 30 mg/Kg 1/19/2018 4:35:24 PM

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

Qualifiers: Value exceeds Maximum Contaminant Level.

> D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1801836** 

24-Jan-18

Client: Souder, Miller & Associates

**Project:** Golden Federal Road

Sample ID MB-36110 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36110 RunNo: 48569

Prep Date: 1/19/2018 Analysis Date: 1/19/2018 SeqNo: 1563719 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-36110 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36110 RunNo: 48569

Prep Date: 1/19/2018 Analysis Date: 1/19/2018 SeqNo: 1563721 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 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 Detection Limit
- W Sample container temperature is out of limit as specified

entitation limits Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Numb	per: 1801836		RcptNo:	1
Received By:	Isaiah Ortiz	1/17/2018 9:50:00 /	<b>M</b>	IGH	_	
Completed By:	Sophia Campuzano	1/17/2018 10:19:31	AM	Sophie Compan	=-	
Reviewed By:	-170	1/17/18				
Chain of Cus	stody					
1. Is Chain of C	Custody complete?		Yes 🗹	No 🗆	Not Present	
2. How was the	e sample delivered?		<u>Courier</u>			
<u>Log In</u>						
3. Was an atten	mpt made to cool the sample	s?	Yes 🗹	No 🗆	na 🗆	
4. Were all sam	iples received at a temperati	are of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient san	nple volume for indicated tes	it(s)?	Yes 🗹	No 🗌		
7. Are samples	(except VOA and ONG) prop	perly preserved?	Yes 🗸	No 🗆		
8. Was preserva	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials hav	ve zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
10. Were any sar	mple containers received bro	oken?	Yes 🗀	No 🗹	# of preserved	· -= · · · · · · · · · · · · · · · · · ·
	ork match bottle labels? ancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
	correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?	
	at analyses were requested?	·	Yes 🗹	No 🗆		
14. Were all holdi	ing times able to be met?		Yes 🗸	No 🗆	Checked by:	
Special Handi	ling (if applicable)					
15. Was client no	otified of all discrepancies w	th this order?	Yes 🗌	No 🗆	NA 🔽	
Person	Notified:	Date:				
By Who	om:	Via:	eMail 🗌	Phone 🗌 Fax	☐ In Person	•
Regard	ding:					
Client I	Instructions:					
16. Additional re	emarks:					
17. Cooler Infor			_			
Cooler No		Seal Intact   Seal No	Seal Date	Signed By		
[!	0.6 Good	Yes				

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HALL ENVIRONMENTA	AT			מ			L																								anslytical report
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5			100								□ Other			Matrix	1.08		**	**						*	6		Relinquished by	+	Relingshed	1	Se sub
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 18, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Golden OrderNo.: 1804586

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 17 sample(s) on 4/11/2018 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: SW 1

**Project:** Golden **Collection Date:** 4/4/2018 8:00:00 AM Lab ID: 1804586-001 Matrix: SOIL Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	43	30	mg/Kg	20 4/16/2018 10:21:01 F	PM 37631

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

**Qualifiers:** Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 21 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW 2

 Project:
 Golden
 Collection Date: 4/4/2018 8:30:00 AM

 Lab ID:
 1804586-002
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	1600	75	mg/Kg	50 4/17/2018 11:07:16 P	PM 37631

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

**Qualifiers:** Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 2 of 21 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit

% Recovery outside of range due to dilution or matrix

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

Client Sample ID: SW 3

**Project:** Golden **Collection Date:** 4/4/2018 9:00:00 AM Lab ID: 1804586-003 Matrix: SOIL Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>				Anal	yst: MRA
Chloride	310	30	mg/Kg	20 4/16/2018 11:10:40	PM 37631

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 21 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: SW 5

 Project:
 Golden
 Collection Date: 4/4/2018 9:40:00 AM

 Lab ID:
 1804586-004
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>				Analy	/st: MRA
Chloride	130	30	mg/Kg	20 4/16/2018 11:23:05 F	PM 37631

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

- \* 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 Page 4 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW 6

 Project:
 Golden
 Collection Date: 4/4/2018 10:00:00 AM

 Lab ID:
 1804586-005
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: MRA
Chloride	1900	75	mg/Kg	50 4/17/2018 11:19:40 PM	37631

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 Page 5 of 21

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

**Client Sample ID: SW 8** 

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

 Project:
 Golden
 Collection Date: 4/4/2018 10:15:00 AM

 Lab ID:
 1804586-006
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 230
 30
 mg/Kg
 20
 4/16/2018 11:47:54 PM
 37631

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

- \* 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 Page 6 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client Sample ID: SW 9

Date Reported: 4/18/2018

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

 Project:
 Golden
 Collection Date: 4/4/2018 10:30:00 AM

 Lab ID:
 1804586-007
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	150	30	mg/Kg	20 4/17/2018 12:00:18 A	AM 37631

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 7 of 21

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW 10

 Project:
 Golden
 Collection Date: 4/4/2018 11:00:00 AM

 Lab ID:
 1804586-008
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: MRA
Chloride	150	30	mg/Kg	20 4/17/2018 12:12:42 AM	A 37631

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

**Qualifiers:** Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 8 of 21 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RLReporting Detection Limit

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

Date Reported: 4/18/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW 11

 Project:
 Golden
 Collection Date: 4/4/2018 11:15:00 AM

 Lab ID:
 1804586-009
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>				Analy	/st: MRA
Chloride	500	30	mg/Kg	20 4/17/2018 12:49:56	AM 37631

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

- \* 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 Page 9 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW 12

 Project:
 Golden
 Collection Date: 4/4/2018 11:20:00 AM

 Lab ID:
 1804586-010
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Ana	lyst: MRA
Chloride	210	30	mg/Kg	20 4/17/2018 1:27:10 /	AM 37631

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 Page 10 of 21

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-4

 Project:
 Golden
 Collection Date: 4/5/2018 10:20:00 AM

 Lab ID:
 1804586-011
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	280	30	mg/Kg	20	4/17/2018 1:39:35 AM	37631
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/13/2018 2:12:37 PM	37571
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/13/2018 2:12:37 PM	37571
Surr: DNOP	73.5	70-130	%Rec	1	4/13/2018 2:12:37 PM	37571
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/13/2018 3:21:07 PM	37580
Surr: BFB	97.0	15-316	%Rec	1	4/13/2018 3:21:07 PM	37580
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	4/13/2018 3:21:07 PM	37580
Toluene	ND	0.047	mg/Kg	1	4/13/2018 3:21:07 PM	37580
Ethylbenzene	ND	0.047	mg/Kg	1	4/13/2018 3:21:07 PM	37580
Xylenes, Total	ND	0.094	mg/Kg	1	4/13/2018 3:21:07 PM	37580
Surr: 4-Bromofluorobenzene	88.3	80-120	%Rec	1	4/13/2018 3:21:07 PM	37580

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

- 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 Page 11 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L6-1

 Project:
 Golden
 Collection Date: 4/5/2018 10:45:00 AM

 Lab ID:
 1804586-012
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	400	30	mg/Kg	20	4/17/2018 1:51:59 AM	37631
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	: ТОМ
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/13/2018 2:34:38 PM	37571
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/13/2018 2:34:38 PM	37571
Surr: DNOP	99.7	70-130	%Rec	1	4/13/2018 2:34:38 PM	37571
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/13/2018 6:51:50 PM	37580
Surr: BFB	96.9	15-316	%Rec	1	4/13/2018 6:51:50 PM	37580
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/13/2018 6:51:50 PM	37580
Toluene	ND	0.049	mg/Kg	1	4/13/2018 6:51:50 PM	37580
Ethylbenzene	ND	0.049	mg/Kg	1	4/13/2018 6:51:50 PM	37580
Xylenes, Total	ND	0.098	mg/Kg	1	4/13/2018 6:51:50 PM	37580
Surr: 4-Bromofluorobenzene	91.3	80-120	%Rec	1	4/13/2018 6:51:50 PM	37580

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

- 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 Page 12 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-2

 Project:
 Golden
 Collection Date: 4/5/2018 11:00:00 AM

 Lab ID:
 1804586-013
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>				Ana	lyst: MRA
Chloride	ND	30	mg/Kg	20 4/17/2018 3:28:05 F	PM 37649

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

- \* 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 Page 13 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L5-0.5

 Project:
 Golden
 Collection Date: 4/5/2018 11:30:00 AM

 Lab ID:
 1804586-014
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	30	30	mg/Kg	20 4/17/2018 4:05:19 Pl	M 37649

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 Page 14 of 21

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-3

 Project:
 Golden
 Collection Date: 4/5/2018 10:30:00 AM

 Lab ID:
 1804586-015
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	130	30	mg/Kg	20 4/17/2018 4:17:43 P	M 37649

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

- \* 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 Page 15 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L7-1'

 Project:
 Golden
 Collection Date: 4/5/2018 12:05:00 PM

 Lab ID:
 1804586-016
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	130	30	mg/Kg	20	4/17/2018 4:30:08 PM	A 37649

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

- \* 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 Page 16 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/18/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L7-2'

 Project:
 Golden
 Collection Date: 4/5/2018 12:27:00 PM

 Lab ID:
 1804586-017
 Matrix: SOIL
 Received Date: 4/11/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	91	30	mg/Kg	20	4/17/2018 4:42:33 PM	1 37649

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

- \* 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 Page 17 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1804586** 

18-Apr-18

Client: Souder, Miller & Associates

**Project:** Golden

Sample ID MB-37631 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37631 RunNo: 50586

Prep Date: 4/16/2018 Analysis Date: 4/16/2018 SeqNo: 1641560 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37631 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37631 RunNo: 50586

Prep Date: 4/16/2018 Analysis Date: 4/16/2018 SeqNo: 1641561 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.1 90 110

Sample ID MB-37649 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37649 RunNo: 50620

Prep Date: 4/17/2018 Analysis Date: 4/17/2018 SeqNo: 1642684 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37649 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37649 RunNo: 50620

Prep Date: 4/17/2018 Analysis Date: 4/17/2018 SeqNo: 1642685 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.5 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 Detection Limit
- W Sample container temperature is out of limit as specified

Page 18 of 21

### Hall Environmental Analysis Laboratory, Inc.

3.8

9.3

WO#: **1804586** 

18-Apr-18

Client: Souder, Miller & Associates

**Project:** Golden

Surr: DNOP

Surr: DNOP

Sample ID LCS-37571 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 37571 RunNo: 50539 Prep Date: 4/12/2018 Analysis Date: 4/13/2018 SeqNo: 1639346 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 47 50.00 0 94.4 70 130

5.000

10.00

76.2

93.2

70

70

130

130

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-37571 SampType: MBLK Batch ID: 37571 Client ID: PBS RunNo: 50539 Prep Date: Analysis Date: 4/13/2018 4/12/2018 SeqNo: 1639347 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

#### 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 Detection Limit
- W Sample container temperature is out of limit as specified

Page 19 of 21

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1804586** 

18-Apr-18

Client: Souder, Miller & Associates

**Project:** Golden

Surr: BFB

Sample ID MB-37580 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 37580 RunNo: 50542

Prep Date: 4/12/2018 Analysis Date: 4/13/2018 SeqNo: 1639961 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 104 15 316

Sample ID LCS-37580 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 37580 RunNo: 50542

1200

Prep Date: 4/12/2018 Analysis Date: 4/13/2018 SeqNo: 1639962 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 0 114 75.9 131

115

15

316

#### 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 Detection Limit
- W Sample container temperature is out of limit as specified

Page 20 of 21

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1804586** 

18-Apr-18

Client: Souder, Miller & Associates

**Project:** Golden

Sample ID MB-37580 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 37580 RunNo: 50542 Prep Date: 4/12/2018 Analysis Date: 4/13/2018 SeqNo: 1639986 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 ND 0.050 Toluene ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 0.95 95.0 Surr: 4-Bromofluorobenzene 1.000 80 120

Sample ID LCS-37580	SampT	ype: LC	s	Tes						
Client ID: LCSS	Batcl	n ID: <b>37</b>	580	F	RunNo: 5	0542				
Prep Date: 4/12/2018	Analysis D	Date: 4/	13/2018	S	SeqNo: 1	639987	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.5	77.3	128			
Toluene	0.91	0.050	1.000	0	91.4	79.2	125			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.8	81.6	129			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order	Number: 1804586		RcptNo:	1
Received By: Erin Melendrez 4/11/2018 9:30	0:00 AM	Max	organ J	
Completed By: Erin Melendrez / 4/11/2018 12:	51:43 PM	une une	<del>, -</del>	
Reviewed By: M 09/11/18				
Labled By: MW 4/11/18				
Chain of Custody				
Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
2. How was the sample delivered?	<u>Courier</u>			
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°0	C Yes 🗹	No 🗌	NA 🗆	
<b>5</b>	·	$\Box$		
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. VOA vials have zero headspace?	<b>V</b> [T]	N- []	Na YOA YELL	
Were any sample containers received broken?	Yes ∐ V □	No ∐ No ☑ ┌	No VOA Vials 🗹	
O. vveie any sample containers received brokess?	Yes □		# of preserved	119 2
1. Does paperwork match bottle labels?	Yes 🗹		bottles checked for pH:	110
(Note discrepancies on chain of custody)		_	1 1 1 1	12 unless noted
2, Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
3. Is it clear what analyses were requested?	Yes 🗹	No 📙		
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No.	Checked by:	
pecial Handling (if applicable)				
5. Was client notified of all discrepancies with this order?	Yes 🗌	No 🔲	NA 🗹	
	1071071-711071-1-1-1-1-1-1-1-1-1-1-1-1-1		.,,,	
	Date: Via:		7 In Passas	
Regarding:	Via: ☐ eMail ☐ P	hone  Fax [	In Person	
Client Instructions:				
6. Additional remarks:			•	
7. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal I	No Seal Date	Signed By		
1 3.4 Good Yes		to or one varieties versions		
Page 1 of 1	<del> </del>	<del></del>	·	<del>_</del>

281	HALL ENVIRONMENTAL		www.nallenvironmental.com 4901 Hawkins NF - Albudilergie NM 87409	10	Analysis		(SMI	(1.8) (1.4( 2.0728 (2.00,e) (4.2087	to sek	TPH 8015B (TPH 8015B (Method EDB (Method R310 R2) (Semi-Nors) (Sem		*	7	*	*	*	*	k			×	**		[sk]		accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	Standard \Rush \G \( \lambda \lambda \rangle \lambda \rangle \rangle \lambda \rangle \	Project Name:	Golden 3	Project #: Te			15081 S (8021)		emperature 3. C	Container Preservative HEAL No $\times$ X Type A $\times$ Type $\times$	you -001	200-	-003	H00-	-005	-000	-007	800-	600-	010-	110-	2) F012	Received by Date Time Remarks	Redented by COUNTIES NASA	OF WINS GRO!	
Chain-of-Custody Record			Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:  □ Standard □ Level 4 (Full Validation)	Accreditation ☐ NELAP ☐ Other	□ EDD (Type)	Matrix Sample Request ID	4/188:00 Soil (WI	5005   8:30	4:60 CW 3	9:40 SWS	10.00 SW6	8 ms 51.00	10:30 Swg	11:00 SW10	11 075 31:11	4 11:00 \ Sw 12	-17 ortin	1-17 4 56:0/8	Relinquished by:	Date: Time: Relinguished by:	40/8/190 XM	If necessary sample submitted to Hall Environmental may be subcontracted to other

797	HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109		Analysis	(V)	no sas on (Gas on (SMI)	(1.8087) (1.808270 S (1.402)	(GR + 1869) 141 or 8 sals or 8 sals (NO A)	BTEX + MTE BTEX + MTE BTEX + MTE TPH 8015B ( TPH (Method EDB (Method EDB (Method RCRA 8 Method	*	*	*	*	*				Date Time Remarks.  Date Time ATD  UNISCRED PAY 2062
Tim-Amind Time.		☐ Standard Naush Color Project Name:	1	Golder	Project #:		Project Manager:	Austin Wayant	Sampler: (Att.) On loe: M. Yes INo	Temperature: 5,4	Container Type and # Type   PAL No	for013	H10-	-015	910-	T10-				
	ustody Record	JMT GEORGE		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:  ☐ Standard ☐ Level 4 (Full Validation)	Accreditation	□ EDD (Type)	ite Time Matrix Sample Request ID	4518 11:00 Sail 14-2	1.8 J	10.30 L3.3	17-10	J 12:27 (7-2'				Date: Time: Relinquished by:

Analytical Report Lab Order 1805C46

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

 Project:
 Golden 4
 Collection Date: 5/18/2018 1:06:00 PM

 Lab ID:
 1805C46-001
 Matrix: SOIL
 Received Date: 5/23/2018 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	210	30	mg/Kg	20 5/24/2018 4:35:41 A	M 38300

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

- \* 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
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{\it J} & \mbox{\it Analyte detected below quantitation limits} & \mbox{\it Page 1 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1805C46

#### Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW6

 Project:
 Golden 4
 Collection Date: 5/18/2018 1:09:00 PM

 Lab ID:
 1805C46-002
 Matrix: SOIL
 Received Date: 5/23/2018 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	A METHOD 300.0: ANIONS Analyst: MRA				st: MRA
Chloride	150	30	mg/Kg	20 5/24/2018 4:48:05 AM	И 38300

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

- \* 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
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{\it J} & \mbox{\it Analyte detected below quantitation limits} & \mbox{\it Page 2 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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

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

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

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

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

COMMENTS

Action 199115

#### **COMMENTS**

Operator:	OGRID:
BOPCO, L.P.	260737
6401 Holiday Hill Rd	Action Number:
Midland, TX 79707	199115
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

#### COMMENTS

Crea	ated By	Comment	Comment Date
am	naxwell	Historical document upload	3/21/2023

District III

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

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

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

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

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

CONDITIONS

Action 199115

#### **CONDITIONS**

Operator:	OGRID:
BOPCO, L.P.	260737
6401 Holiday Hill Rd	Action Number:
Midland, TX 79707	199115
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwe	II None	3/21/2023