#5E26784-BG4



May 25, 2018

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: Release 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							

Engineering • Environmental • Surveying

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

1.0 Background

Table 2

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.

	-	-	
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).

Page 2 of 4

Golden D Federal #004 (2RP-4551) May 25, 2018 Page 3 of 4

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 Reviewed by:

1 Austr Merant

Austin Weyant Project Scientist

hauna Chubbuck

Shawna Chubbuck Senior Scientist

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

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 Page 4 of 4

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FIGURE 1 VICINITY AND NMOSE DATA MAP

Received by OCD: 3/21/2023 8:06:06 AM



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	or 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
	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
	4/4/2018	sidewall	excavated								1600
SW2	5/18/2018	sidewall	in-situ								210

.

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		
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

"--" = Not Analyzed

APPENDIX A FORM C141 INITIAL AND FINAL

·		Page 13
		NM OIL CONSERVATION Form C 141
ARIESIA DISTRICT STATE C	of New Mexico	
11 S. First St., Artesia, NM 88210 JAN 0 4 2018		Kevised April 3, 2017
JUU KIO Brazos Road, Aztec. NM 8/410	ervation Division	Sublinit Opt to the ropriate District Office in accordance with 19.15.29 NMAC.
220 S. St. Erangia Dr. Santa En NIM 97505 KEUEIVEIV	th St. Francis Dr.	
	Fe, NM 87505	RECEIVED
	on and Corrective A	Action
NAB 1800936367	OPERATOR	Initial Report 🔲 Final Report
Name of Company: XTO Energy BOPCO 260737 Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Contact: Amy C. Ruth	AC71
Facility Name: Golden D Federal #004 (location of well is on	Telephone No: 432-661-(Facility Type: Exploratio	
Federal, location of release point is on NM State Land)		
Surface Owner: Federal Mineral Owner	r Federal	API No: 30-015-35636
0 along - welling an CID lander DUM	7	ATTRO: 50-013-55050
	JN OF RELEASE	
Unit LetterSectionTownshipRangeFeet from theNorE1621S29E1745Nor	th/South Line Feet from the 18	East/West Line County West Eddy
Latitude 32.481906° I		
		NAD83
-	E OF RELEASE	
Fype of Release Produced Water	Volume of Release 26 bi	bls Volume Recovered 0 bbls
Source of Release Flow Line	Date and Hour of Occurrer	
Was Immediate Notice Given?	12/21/2017 time unknown If YES, To Whom?	12/21/2017 9 am
Xas minediate Notice Orvent		aver (NMOCD), Shelly Tucker/Jim Amos (BLM)
By Whom? Kyle Littrell	Date and Hour: 12/21/20	17 3:35 pm by email
Was a Watercourse Reached?	If YES, Volume Impacting	
By Whom? Kyle Littrell Was a Watercourse Reached?		
Was a Watercourse Reached? Yes X No If a Watercourse was Impacted, Describe Fully.*	If YES, Volume Impacting	
Was a Watercourse Reached?	If YES, Volume Impacting	
Was a Watercourse Reached? Yes X No If a Watercourse was Impacted, Describe Fully.* N/A	If YES, Volume Impacting	
Was a Watercourse Reached? Yes X No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.*	If YES, Volume Impacting N/A	
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Was a Watercourse Reached? Yes No f 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. Describe Area Affected and Cleanup Action Taken.*	If YES, Volume Impacting N/A The connection was tightened.	the Watercourse.
Was a Watercourse Reached? Yes No f 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. Describe Area Affected and Cleanup Action Taken.* The release impacted approximately 4,988 square feet of lease road run	If YES, Volume Impacting N/A The connection was tightened. ning NW to SE on the northeast	t side of the Golden Lane 17 Federal #1 well pad.
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Was a Watercourse Reached? Yes No 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. Describe Area Affected and Cleanup Action Taken.* The release impacted approximately 4,988 square feet of lease road run The release extended into NM State land at its east end across the road lelineation and remediation effort. Thereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release bublic health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remediation or the environment. In addition, NMOCD acceptance of a C-141 report deeral, state, or local laws and/or regulation Signature: Printed Name: Amy C. Ruth	If YES, Volume Impacting N/A The connection was tightened. The connection was tightened. Ining NW to SE on the northeast intersection. A remediation con the best of my knowledge and e notifications and perform corre- the NMOCD marked as "Final 1 iate contamination that pose a the t does not relieve the operator of OIL CON Approved by Environmental	t side of the Golden Lane 17 Federal #1 well pad. tractor has been contacted to assist with the understand that pursuant to NMOCD rules and ective actions for releases which may endanger Report" does not relicve the operator of liability meat to ground water, surface water, human health f responsibility for compliance with any other NSERVATION DIVISION Specialist:

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Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/4/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 3(P+455) has been assigned. Please refer to this case number in all future correspondence.

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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Page 16 of 71

.

Form C-141 Revised April 3, 2017

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

District IV 1220 S. St. Fran	ncis Dr., Sant	a Fe, NM 8750	5			n St. France, NM 875						
			Rel				orrective A	ction				
						OPERA '	ГOR	Ľ] Initi	al Report	\boxtimes	Final Report
Name of Co						Contact Ky	le Littrell				- Hereit	1
				ad, NM 8822	0	Telephone	No. 432-221-73	31				
Facility Na	me Golden	n D Federal #	4			Facility Typ	e Exploration	and Produ	iction			
Surface Ow	/ner Fed/S	State	l Owner	Federal			API No	o. 30-015-3	5636			
				LOO	CATIO	N OF RE	LEASE					
Unit Letter E	Section	Township	Range	Feet from the		South Line	Feet from the	East/We		County		
E	16	21s	29e	1745	Nor		18	West		Eddy		
		La	titude_32	2.481906	Lor	ngitude1	03.998092	NA	.D83			
T CD 1		1 117 -		NA	TURE	OF REL						
Type of Rele Source of Re							Release 26 bbls			Recovered		
Source of Re	lease now	line				12/21/201			2/21/20	Hour of Dis	covery	
Was Immedi	ate Notice (If YES, To	Whom?		100			
		\boxtimes	Yes] No 🗌 Not	Required	Mike Brat	cher/Crystal Wear	ver (NMO	CD), Sh	elly Tucker/.	Jim An	ios (BLM)
By Whom?					2		Hour 12/21/2017					
Was a Water	course Read	ched?	Yes 🗵	1 No		If YES, Volume Impacting the Watercourse.						
			_			IN/a						
If a Watercon N/A	urse was Im	pacted, Descr	ibe Fully.'	k								
	use of Probl	em and Reme	dial Actio	n Taken.*								
				ose hammer un	ion. The c	onnection wa	s repaired.					
Describe Are	a Affected	and Cleanup	Action Tak	cen.*	-							
The release i	mpacted app	proximately 4	,899 squar	e feet of lease	road runnii	ng NW to SE	on the northeast	side of the	Golden	Lane 17 Fed	leral #1	well pad.
The release e	extended int	o NM State L	and at its e	east end across	the road in	tersection. R	emediation was p	performed	by third	party in acc	ordance	e with the
NMOCD app	proved work	c plan.										
I hereby certi	ify that the i	information gi	ven above	is true and con	mplete to the	he best of my	knowledge and u	inderstand	that pur	suant to NM	OCD r	ules and
regulations a	ll operators	are required t	o report ar	nd/or file certai	n release n	otifications a	nd perform correc	ctive action	s for rel	eases which	may en	ndanger
public health	or the envir	ronment. The	acceptance	ce of a C-141 re	eport by the	e NMOCD m	arked as "Final R	leport" doe	s not rel	ieve the ope	rator of	f liability
or the enviro	nment. In a	ddition. NMC	CD accen	tance of a C-14	41 report d	oes not reliev	on that pose a thr the operator of	responsibi	na wate	r, surface wa	ater, nu vith an	man nealth
federal, state	, or local lay	ws and/or regu	lations.				op of	respension			······) other
	/	\sim	//	1			OIL CON	SERVA	TION	DIVISIO	<u>)N</u>	
Signatur	10	ET AU	the	7								
1	A	Pr				Approved by	Environmental S	nacialist				
Printed Name	Kyle Litti	rell										
Title: Enviro	onmental Co	ordinator				Approval Da	te:	Ex	piration	Date:		
E-mail Addre	ess: Kvle I	Littrell@xtoer	erov com			Conditions of	f Annroval.					
		S. M. C. W. KOOL					i ippiorai.			Attached		
Date: 5-14-20				2: 432-221-73	31					200	155	
Allach Addi	uonal Shee	ets If Necess	ary							2RP-	433	L

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)	``	•					2=NE a	3=SW 4= rgest)) AD83 UTM in me	ters)	(In feet)	
POD Number	POD Sub- Code basin Co	ounty		Q 16		Sec	Tws	Rng		x	Y	Distance	-	-	Water Column
CP 00516		ED					21S		5909	01	3594984* 🌍	3277	275	205	70
CP 00430	CP	ED	1	4	1	03	21S	29E	5962	21	3597558* 🔵	3874	360	225	135
<u>CP 00419</u>	CP	ED		4	3	32	20S	30E	5942	50	3599003* 🌍	4694	262	170	92
											Averaç	ge 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



January 05, 2018

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

OrderNo.: 1712E24

RE: Golden D4 Road

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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

CLIENT: Souder, Miller & Associates

Golden D4 Road

Analytical Report Lab Order 1712E24

Date Reported: 1/5/2018
Client Sample ID: L1-0.5

Collection Date: 12/21/2017 10:50:00 AM Received Date: 12/23/2017 8:30:00 AM

Lab ID: 1712E24-001	Matrix:	SOIL	Received	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 RANG	GE ORGANICS	6			Analyst	: том
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 RAN	IGE				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

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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20		
CLIENT: Souder, Miller & Associates			Client Samp			
Project:Golden D4 RoadLab ID:1712E24-002	Matrix:	SOIL	001100101	llection Date: 12/21/2017 10:50:00 AM eceived 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	

Qualifiers:	1
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20	018
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L2-0.5	
Project: Golden D4 Road	Collection Date: 12/21/2017 10:50:00 AM				М
Lab ID: 1712E24-003	Matrix: SOIL Received Date: 12/23/2017 8:30:00				1
Analyses	Result	PQL Qu	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

1

- * 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

Hall Environmental Analysis Laboratory, In				Analytical Report Lab Order 1712E24 Date Reported: 1/5/2	
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L2-1	
Project: Golden D4 Road	Collection Date: 12/21/2017 10:50:00 AM				M
Lab ID: 1712E24-004	Matrix:	SOIL	Received	Date: 12/23/2017 8:30:00 AM	M
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	8700	750	mg/Kg	500 1/3/2018 7:58:45 PM	I 35804

Qualifiers:	1
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20)18
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L2-2	
Project: Golden D4 Road	Collection Date: 12/21/2017 10:50:00 AM				М
Lab ID: 1712E24-005	Matrix:	SOIL	Received	Date: 12/23/2017 8:30:00 AN	1
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	4900	300	mg/Kg	200 1/3/2018 8:11:10 PM	35804

1

- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20	018
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L3-0.5	
Project: Golden D4 Road	Collection Date: 12/21/2017 10:50:00 AM				Μ
Lab ID: 1712E24-006	Matrix: SOIL Received Date: 12/23/2017 8:30:00 A				1
Analyses	Result	PQL Qu	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

Qualifiers:	:
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20	
CLIENT: Souder, Miller & Associates Project: Golden D4 Road			Client Samp Collection	le ID: L3-1 Date: 12/21/2017 10:50:00 A	M
Lab ID: 1712E24-007	Matrix: SOIL Received Date: 12/23/2017 8:30:00 A				Λ
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	vst: CJS
Chloride	980	30	mg/Kg	20 1/2/2018 8:03:05 PM	35804

1

- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20		
CLIENT: Souder, Miller & Associates			Client Sampl			
Project:Golden D4 RoadLab ID:1712E24-008	Matrix:	SOIL	00110011011	n Date: 12/21/2017 10:50:00 AM d Date: 12/23/2017 8:30:00 AM		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS				Analy	vst: CJS	
Chloride	380	30	mg/Kg	20 1/2/2018 8:15:30 PM	35804	

1

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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/2	
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L4-0.5	
Project: Golden D4 Road			Collection	Date: 12/21/2017 10:50:00 A	M
Lab ID: 1712E24-009	Matrix:	SOIL	Received	Date: 12/23/2017 8:30:00 AN	М
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	7100	750	mg/Kg	500 1/3/2018 8:35:59 PN	1 35804

1

- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20		
CLIENT: Souder, Miller & Associates Project: Golden D4 Road			Client Samp Collection	le ID: L4-1 Date: 12/21/2017 10:50:00 A	M	
Lab ID: 1712E24-010	Matrix:	SOIL	Received	d 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: CJS	
Chloride	750	30	mg/Kg	20 1/2/2018 8:40:19 PM	35804	

Qualifiers:	;
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- * 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 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1712E24 Date Reported: 1/5/20	018		
CLIENT: Souder, Miller & Associates			Client Sampl	le ID: L4-2			
Project: Golden D4 Road			Collection]	Date: 12/21/2017 10:50:00 A	М		
Lab ID: 1712E24-011	Matrix:	SOIL	Received	d 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: CJS		
Chloride	460	30	mg/Kg	20 1/2/2018 8:52:43 PM	35804		

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

Client: Project:		er, Miller & As en D4 Road	sociate	es							
Sample ID	MB-35804	SampTy	pe: m l	olk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 35	804	F	RunNo: 4	8126				
Prep Date:	1/2/2018	Analysis Da	ate: 1/	2/2018	S	SeqNo: 1	545516	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-35804	SampTy	pe: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 35	804	F	RunNo: 4	8126				
Prep Date:	1/2/2018	Analysis Da	ate: 1/	2/2018	S	SeqNo: 1	545517	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.4	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

1712E24

05-Jan-18

WO#:

Page 12 of 15

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

,	Miller & A D4 Road	ssociate	es							
Sample ID LCS-35723	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 35	723	F	RunNo: 4	8061				
Prep Date: 12/27/2017	Analysis D	Date: 12	2/28/2017	S	SeqNo: 1	540950	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	73.2	114			
Surr: DNOP	4.4		5.000		87.5	70	130			
Sample ID MB-35723	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 35	723	F	tunNo: 4	8061				
Prep Date: 12/27/2017	Analysis D	Date: 12	2/28/2017	5	SeqNo: 1	540955	Units: mg/	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (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
- 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

1712E24

05-Jan-18

WO#:

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Client: Project:	,	Miller & As D4 Road	ssociate	es							
Sample ID MB-3	5711	SampT	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS		Batch	ID: 35	711	R	RunNo: 4	8084				
Prep Date: 12/2	6/2017	Analysis D	ate: 12	2/28/2017	17 SeqNo: 1541238 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orgar Surr: BFB	nics (GRO)	ND 780	5.0	1000		77.6	15	316			
Sample ID LCS-	35711	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	;	Batch	ID: 35	711	R	RunNo: 4	8084				
Prep Date: 12/2	6/2017	Analysis D	ate: 12	2/28/2017	S	SeqNo: 1	541239	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orgar Surr: BFB	nics (GRO)	27 980	5.0	25.00 1000	0	108 97.5	75.9 15	131 316			

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

1712E24

05-Jan-18

WO#:

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	ouder, Miller & A olden D4 Road	Associate	es							
Sample ID MB-35711	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Bate	ch ID: 35	711	F	RunNo: 4	8084				
Prep Date: 12/26/20	17 Analysis	Date: 12	2/28/2017	S	SeqNo: 1	541278	Units: mg/k	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTB	E) ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenze	ne 0.90		1.000		90.4	80	120			
Sample ID LCS-3571	1 Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bate	ch ID: 35	711	F	RunNo: 4	8084				
Prep Date: 12/26/20	17 Analysis	Date: 12	2/28/2017	S	SeqNo: 1	541279	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTB	E) 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-Bromofluorobenze	ne 1.0		1.000			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

1712E24

05-Jan-18

WO#:

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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			s Sam	Sample Log-In Check List								
Client Name:	SMA-CARLSBAD	Work Order Number:	1712	24		RcptNo:	1							
Received By:	Andy Freeman	12/23/2017 8:30:00 AM	I		andy									
Completed By:	Michelle Garcia	12/26/2017 9:30:08 AM	1	ų	Mirell Ga									
Reviewed By:	dr.				' ''									
Chain of Custo	ody													
1. Custody seals		Yes		No 🗌	Not Present 🗹									
2. Is Chain of Cu		Yes	\checkmark	No 🗌	Not Present									
3. How was the s	sample delivered?		<u>Cour</u>	ier										
<u>Log In</u>														
4. Was an attempt made to cool the samples?			Yes		No 🗌									
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C			Yes		No 🗌	NA 🗔								
6. Sample(s) in proper container(s)?			Yes	\checkmark	No 🗌									
7. Sufficient sample volume for indicated test(s)?			Yes		No 🗌									
8. Are samples (except VOA and ONG) properly preserved?			Yes	\checkmark	No 🗌									
9. Was preservat		Yes		No 🗹	NA 🗔									
10.VOA vials have		Yes		No 📃	No VOA Vials 🗹									
11. Were any sam	ple containers received bro	ken?	Yes		No 🔽									
			-			# of preserved bottles checked								
	rk match bottle labels? ncies on chain of custody)		Yes	\checkmark	No 🗌	for pH:	>12 unless noted)							
	of Custody?	Yes	v	No	Adjusted?	2 unless holed)								
13 Are matrices correctly identified on Chain of Custody?14 Is it clear what analyses were requested?						· · · ·								
15. Were all holdin		Yes	\mathbf{V}	No 🗌	Checked by:									
(If no, notify cu	stomer for authorization.)													
<u>Special Handlii</u>	ng (if applicable)													
16. Was client notified of all discrepancies with this order?			Yes	i	No 🗌	NA 🗹								
Person N	lotified:	Date			haled an									
By Whon	n:	Via:] eMa	il 🗌 Phor	ne 🗌 Fax	In Person								
Regardin	g:		-											
Client Ins	structions:	na ma da da l a chemita da la construcción de la construcción de la construcción de la construcción de la const La construcción de la construcción d	1963)), (dinin in in in			************************								
17. Additional rem	parks:	· · · · · · · · · · · · ·												
18. <u>Cooler Inform</u> Cooler No 1			eal Da	te Siç	gned By									
Page 1 of 1				<u></u>	·		<u>. </u>							
NTAL TORY		ο Y) selddu8 1iA												
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HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 45-3975 Fax 505-345-4107 Analysis Request		8081 Pesticides (AOV) 80958 OV-ime2) 0728											-	
L ENV LYSIS allenvironn - Albuque i Fax 6	(*OS'*Od' ² ON' ² ()	RCRA 8 Metals	\leq	8	XX	X	×	×	X	X	メ	X	-	
MLL I MLL I ML, ML, ML, ML, ML, ML, ML, ML, ML, ML,	(SMIS 0228	no 0168) a'HA9							_					
4901 Hawkins NE - Tel. 505-345-3975	-	EDB (Method 4 5 borthem) 803		+				-	_	-	-			NV N
4901 H	4 TPH (Gas only)	0.610.0450.0211.0240.0214.030490	×	_	_								1	
	(1S08) a'8MT +		×										Remarks	
orkush Sdy	ley 1	HEAL NO.	001	003	003	500	oppo	500	Cost	609	010	lio	Date Time	Date Time $(r^2/23/r7) \frac{1}{r_{122}}$
a gran a	es Lu	Temperature: 1, 9 her Preservative hd # Type												
Direction of the standard Project Name:	Project Manager: And And Sampler: A	Sample Temp Container Type and #	402	-						1		A	Receined hv.	And by
Chain-of-Custody Record	Level 4 (Full Validation)	Sample Request ID	21-0.5	1-1-	1-2-1	12-2	L3-0.5	13-1	63-2	LU-0.5		ししし	(M	4
-of-Cu	D Other	Matrix	5001	-	-			_	-	-	-	V	Relinquished by:	Set municipal by
Client: 5/ Mailing Address: Phone #:	Fax#: ackage: lard ation		10:50	-	-					-	>	-	Time: R	Time.
Client: Mailing A	email or Fax#: GA/QC Package: Candard Accreditation	Date Time	2-2H7		-			-	-	-	V	V	Date: T	

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



January 24, 2018

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

January 24, 2018

RE: Golden Federal Road

OrderNo.: 1801836

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environ	mental Analysis	Laborat	ory, Inc.		Analytical Report Lab Order: 1801836 Date Reported: 1/24/2018
	ouder, Miller & Associa Golden Federal Road	tes			Lab Order: 1801836
Lab ID:	1801836-001		(Collection D	Date: 1/15/2018 10:08:00 AM
Client Sample ID:	L1-2'			Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		1700	75	mg/Kg	50 1/23/2018 7:56:47 PM 36110
Lab ID:	1801836-002		(Collection D	Date: 1/15/2018 10:47:00 AM
Client Sample ID:	L1-3'			Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		940	30	mg/Kg	20 1/19/2018 4:10:35 PM 36110
Lab ID:	1801836-003		(Collection D	Date: 1/15/2018 11:34:00 AM
Client Sample ID:	L2-2.5'			Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		2500	75	mg/Kg	50 1/23/2018 8:09:11 PM 36110
Lab ID:	1801836-004		(Collection D	Pate: 1/15/2018 12:04:00 PM
Client Sample ID:	L2-3'			Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		800	30	mg/Kg	20 1/19/2018 4:35:24 PM 36110

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

Client: Project:		ler, Miller & As len Federal Roa		es							
Sample ID	MB-36110	SampTy	/pe: m t	olk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 36	110	R	RunNo: 4	8569				
Prep Date:	1/19/2018	Analysis Da	ate: 1/	19/2018	S	SeqNo: 1	563719	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-36110	SampTy	/pe: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 36	110	R	anNo: 4	8569				
Prep Date:	1/19/2018	Analysis Da	ate: 1/	19/2018	S	SeqNo: 1	563721	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	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

1801836

24-Jan-18

WO#:

Page 2 of 2

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HALL ENVIRONMENTAL ANALYSIS LABORATORY		901 Hawki rque, NM (: 505-345	ins NE 87109 Sam -4107	Pa Sample Log-In Check List		
Client Name: SMA-CARLSBAD	Work Order Number: 18	01836		RcptNo: 1		
Received By: Isaiah Ortiz 1.	/17/2018 9:50:00 AM		IG	-		
Completed By: Sophia Campuzano 1.	/17/2018 10:19:31 AM		Sophie Comer-			
Reviewed By: -(MO I)	17/18		., ,			
Chain of Custody						
1. Is Chain of Custody complete?	Ye	s 🗹	No 🗆	Not Present		
2. How was the sample delivered?	<u>Cc</u>	urier				
Log In						
3. Was an attempt made to cool the samples?	Ye	s 🗹	No 🗌			
4. Were all samples received at a temperature of	>0° C to 6.0°C Ye	s 🗹	No 🗌			
5. Sample(s) in proper container(s)?	Ye	s 🔽	No 🗌			
6. Sufficient sample volume for indicated test(s)?	Ye	s 🔽	No 🗌			
7. Are samples (except VOA and ONG) properly pr	reserved? Yes	· ·	No 🗀			
8. Was preservative added to bottles?	Ye	;	No 🔽	NA 🗌		
9. VOA vials have zero headspace?	Ye	;	No 🗌	No VOA Vials 🗹		
10. Were any sample containers received broken?	Ye	s 🗆	No 🗹	# of preserved	· · · ·	
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Ye	5	No 🗌	bottles checked for pH: (<2 or >12	2 unless note	
12. Are matrices correctly identified on Chain of Cus	stody? Ye		No 🗌	Adjusted?		
13, Is it clear what analyses were requested?	Ye		No 🗌			
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Ye	•	No 🗌 🔤	Checked by:		
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	order? Ye	s 🗌	No 🗌	NA 🗹		
Person Notified:	Date:	açennen a mar				
By Whom:	Via: 🗌 el	Mail 🗌	Phone 🗌 Fax	In Person		
Regarding:		1000 000 000 000 000 000 000 000 000 00				
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal 1 0.6 Good Yes	Intact Seal No Seal	Date	Signed By			

1	Chain	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:											<i>lec</i>
Client	Client: SMA -		Car 15 bad	C Standard	K Rust	I Rush 5 day turn	Л			HALL	5	Z S	85	NME	ENVIRONMENTAL	
				Project Name:		0			4	A N	2	2	5	ROR	ANALTSIS LABORALOR	-
Mailin	Mailing Address: 20	1000	S. Halagueno	Golden	R	deral Road		1 1 U I	4001 Hawkine NE	ww.h	www.hallenvironmental.com	onmei	ntal.o	environmental.com		OCD:
			2	Project #:				Tel 5	Tel 505-345-3975	3975	L L	Fav 506	1345	505-245-4107		3/2]
Phone #:	:#:			_							Analysis Request	is Re	senb		Contractory of	1/20
email	email or Fax#:			Project Manager:	ger:		_	_		-		(*)				23 8.
OA/OC	QA/OC Package:		Level 4 (Full Validation)	Austin	Weyan	ant				(SM			_			:06:06
Accre	Accreditation			Sampler: A	NRS											
O NELAP	LAP	D Other			Sayo	O No	_							(\		Иı
D ED	DDD (Type)			Sample Temperature: //	erature: //	-10(65)0.4	_		_			- 2222		0		o Y)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	TM + XJT8 M + XJT8	TFH 8015B	odteM) H9T	EDB (Metho PAH's (8310	em 8 AADA	Anions (F,C	4OV) 80828	-imə2) 0728	TYPE I P	Air Bubbles
8/51/10	\$ 10:08	Gei 1	11-2'	402		100-	_				-		-	2		1
.=	10:47	1.0	61-3'	N.		-002										-
и	11:34	**	12-2.5'	z		E00-						1				-
:	12:04		62-3.			-004						1				
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4		6							+	$\left \right $						
Date:		tsinbu	d by:	Received by		Date Time	Remarks] <u>i</u> i		_	-	_				
Data:	COOV	Reinorthout 0	and hur	-100		116/18 0200	×	5	~							
1 18	1900	12	1		K	053 81/21/1										Page 4.
0.228	If recessary, samp	S SUB	ritted to Hall Environmental may be subcontracted to other accredited laboratories	ntracted to other acc	redited laboratorie	This serve	possibility.	Any su	b-contrac	ted data	will be cle	sarly not	ated on	the analytica	il report.	2_of :



April 18, 2018

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

OrderNo.: 1804586

Dear Austin Weyant:

RE: Golden

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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	
CLIENT: Souder, Miller & Associates Project: Golden			Client Sampl Collection I	e ID: SW 1 Date: 4/4/2018 8:00:00 AM	
Lab ID: 1804586-001	Matrix:	SOIL	Received 1	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

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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW 2	
Project: Golden			Collection I	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 Qu	al 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 F	PM 37631

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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates			Client Sample		
Project: Golden Lab ID: 1804586-003	Matrix:	SOIL	001100110111	Date: 4/4/2018 9:00:00 AM Date: 4/11/2018 9:30:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	vst: MRA
Chloride	310	30	mg/Kg	20 4/16/2018 11:10:40 F	PM 37631

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

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates		-	Client Sampl	e ID: SW 5	
Project: Golden			Collection 1	Date: 4/4/2018 9:40:00 AM	
Lab ID: 1804586-004	Matrix:	SOIL	Received I	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 4/16/2018 11:23:05 P	M 37631

- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW 6	
Project: Golden			Collection I	Date: 4/4/2018 10:00:00 AM	
Lab ID: 1804586-005	Matrix:	SOIL	Received I	Date: 4/11/2018 9:30:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	rst: MRA
Chloride	1900	75	mg/Kg	50 4/17/2018 11:19:40 F	PM 37631

- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18 /2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW 8	
Project: Golden			Collection I	Date: 4/4/2018 10:15:00 AM	
Lab ID: 1804586-006	Matrix:	SOIL	Received I	Date: 4/11/2018 9:30:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	rst: MRA
Chloride	230	30	mg/Kg	20 4/16/2018 11:47:54 F	PM 37631

Qualifiers:	2
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/	
CLIENT: Souder, Miller & Associates			Client Sample	e ID: SW 9	
Project: Golden			Collection I	Date: 4/4/2018 10:30:00 AM	[
Lab ID: 1804586-007	Matrix:	SOIL	Received I	Date: 4/11/2018 9:30:00 AM	[
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	150	30	mg/Kg	20 4/17/2018 12:00:18	AM 37631

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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18,	
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW 10	
Project: Golden			Collection 1	Date: 4/4/2018 11:00:00 AM	1
Lab ID: 1804586-008	Matrix:	SOIL	Received	Date: 4/11/2018 9:30:00 AM	1
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	150	30	mg/Kg	20 4/17/2018 12:12:42	AM 37631

Qualifiers:	:
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- * 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 8 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW 11	
Project: Golden			Collection I	Date: 4/4/2018 11:15:00 AM	
Lab ID: 1804586-009	Matrix:	SOIL	Received I	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	500	30	mg/Kg	20 4/17/2018 12:49:56 A	M 37631

Qualifiers:	:
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW 12	
Project: Golden			Collection 1	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 Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	210	30	mg/Kg	20 4/17/2018 1:27:10 AM	/ 37631

Qualifiers:	1
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- * 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

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

1804586-011

Golden

Analytical Report

Matrix:

Lab Order 1804586 Date Reported: 4/18/2018

	Client Sample ID: L1-4
	Collection Date: 4/5/2018 10:20:00 AM
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 RAM	NGE ORGANICS	6			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

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 21 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

1804586-012

Golden

Analytical Report
Lab Order 1804586

Lab Order **1804586** Date Reported: **4/18/2018**

Client Sample ID: L6-1				
	Collection Date: 4/5/2018 10:45:00 AM			
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					Analys	t: MRA
Chloride	400	30	mg/Kg	20	4/17/2018 1:51:59 AM	37631
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS	;			Analys	t: TOM
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 RA	NGE				Analys	t: 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					Analys	t: 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

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to Maurx
- 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2018		
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L4-2		
Project: Golden			Collection I	Date: 4/5/2018 11:00:00 AM		
Lab ID: 1804586-013	Matrix:	SOIL	Received 1	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	ND	30	mg/Kg	20 4/17/2018 3:28:05 PM	1 37649	

Qualifiers:	:
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	018
CLIENT: Souder, Miller & Associates			Client Samp	le 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 PN	1 37649

Qualifiers:	;
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/	
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L3-3	
Project: Golden			Collection	Date: 4/5/2018 10:30:00 AM	ĺ
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				Anal	yst: MRA
Chloride	130	30	mg/Kg	20 4/17/2018 4:17:43 P	M 37649

Qualifiers:	:
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L7-1'	
Project: Golden			Collection 1	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 Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	rst: MRA
Chloride	130	30	mg/Kg	20 4/17/2018 4:30:08 PM	A 37649

Qualifiers:	1
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- * 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

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804586 Date Reported: 4/18/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	le ID: L7-2'	
Project: Golden			Collection 1	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 Qu	ual 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	/ 37649

Qualifiers:	1
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- * 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

Client: Project:	Souder, N Golden	Miller & Associat	tes							
Sample ID	MB-37631	SampType: m	blk	Tes	tCode: EPA	Method	300.0: Anion	S		
Client ID:	PBS	Batch ID: 3	7631	R	unNo: 5058	6				
Prep Date:	4/16/2018	Analysis Date: 4	/16/2018	S	SeqNo: 1641	560	Units: mg/K	g		
Analyte Chloride		Result PQL ND 1.5		SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-37631	SampType: Ic	S	Tes	tCode: EPA I	Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 3	7631	R	lunNo: 5058	6				
Prep Date:	4/16/2018	Analysis Date: 4	/16/2018	S	SeqNo: 1641	561	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.1	90	110			
Sample ID	MB-37649	SampType: m	blk	Tes	tCode: EPA I	Method	300.0: Anion	S		
Client ID:	PBS	Batch ID: 3	7649	R	unNo: 5062	0				
Prep Date:	4/17/2018	Analysis Date: 4	/17/2018	S	eqNo: 1642	684	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-37649	SampType: Ic	S	Tes	tCode: EPA I	Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 3	7649	R	RunNo: 5062	0				
Prep Date:	4/17/2018	Analysis Date: 4	/17/2018	S	eqNo: 1642	685	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC Lo	owLimit	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

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Client: Souder, Project: Golden	Miller & A	ssociate	es							
Sample ID LCS-37571	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 37	571	F	RunNo: 5	0539				
Prep Date: 4/12/2018	Analysis D	Date: 4	13/2018	S	SeqNo: 1	639346	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	70	130			
Surr: DNOP	3.8		5.000		76.2	70	130			
Sample ID MB-37571	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 37	571	F	RunNo: 5	0539				
Prep Date: 4/12/2018	Analysis D	Date: 4/	13/2018	S	SeqNo: 1	639347	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.2	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 Detection Limit
- W Sample container temperature is out of limit as specified

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Client: Soude Project: Golde	er, Miller & A en	ssociate	es							
Sample ID MB-37580	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 37	580	F	RunNo: 5	0542				
Prep Date: 4/12/2018	Analysis D	Date: 4/	13/2018	S	SeqNo: 1	639961	Units: mg/H	٢g		
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	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	h ID: 37	580	F	RunNo: 5	0542				
Prep Date: 4/12/2018	Analysis D	Date: 4/	13/2018	S	SeqNo: 1	639962	Units: mg/ #	٤g		
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			
Surr: BFB	1200		1000		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

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Client: Soude Project: Golde	r, Miller & A n	ssociate	28							
Sample ID MB-37580	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 37	580	F	RunNo: 5	0542				
Prep Date: 4/12/2018	Analysis D	Date: 4/	13/2018	5	SeqNo: 1	639986	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	80	120			
Sample ID LCS-37580	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 37	580	F	RunNo: 5	0542				
Prep Date: 4/12/2018	Analysis D	Date: 4/	13/2018	S	SeqNo: 1	639987	Units: mg/ł	٢g		
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
- W Sample container temperature is out of limit as specified

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i.

ENVIRONMENTAL ANALYSIS LABORATORY		001 Hawkins NE rque, NM 87109 1: 505-345-4107	Sam	ple Log-In C	heck List
Client Name: SMA-CARLSBAD Work	Order Number: 18	04586		RcptNo:	1
	18 9:30:00 AM 18 12:51:43 PM	U U	MA MA	ड - इ	
Chain of Custody		<u>.</u>	_	_	
1. Is Chain of Custody complete?	Ye	s 🗹 🛛 I	No 🗆	Not Present	
2. How was the sample delivered?	Cor	<u>urier</u>			
Log In 3. Was an attempt made to cool the samples?	Yes	s. 🗹 🛛 M	40 🗌		
4. Were all samples received at a temperature of $>0^\circ$ C to	o6.0°C Yes	s 🔽 🖪	10 🗆		
5. Sample(s) in proper container(s)?	Yes	; 🗹 N	1o 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes	V N	lo 🗌		
7. Are samples (except VOA and ONG) properly preserve	d? Yes	✓ N	o 🗌		
8. Was preservative added to bottles?	Yes		o 🗹	NA 🗆	
9. VOA vials have zero headspace?	Yes		o 🗌	No VOA Vials 🗹	
10. Were any sample containers received broken?	Yes	, 🗆 🛛 N	Io 🗹 🗍		. (1 ->
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	✓ N	•	# of preserved bottles checked for pH:	>12 unless noted)
12, Are matrices correctly identified on Chain of Custody?	Yes	✓ N	•	Adjusted?	
13. Is it clear what analyses were requested?	Yes	✓ N	• □ ↓		
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	✓ N	ol	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this order?	Yes		lo 🔲	NA 🔽	
Person Notified: By Whom: Regarding:	Date:	· · · · · · · · · · · · · · · · · · ·	Fax ↓		•
Client Instructions:					
16. Additional remarks: 17. Cooler Information Cooler No Temp °C Cooler No Temp °C 1 3.4 Good Yes	Seal No Seal D	Date Signe	d By		
Page 1 of 1	<u> </u>			<u> </u>	<u> </u>

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202			www.hallenvironmental.com 4901 Hawkins NF - Albirni.arui NM 87100	10	Analysis	(0)	PO4,5O (8M1 20 / MR	20 / DR 18.1) 1.4.1) 2.002,1 1,8082 1,8082 2,9082	(CR 141 140 140 140 140 140 140 140 140 140	88108 Н9Т 1 РН (Method 1 РН (Method 2 С 2 С 2 С 2 С 2 С 2 С 2 С 2 С	×	×	×		*					Zord	Any sub-contracted data will be clearly notated on the analytical report.
Titra-Around Time	Standard Rush 5 dwy		- Colder -				Wey ant \$ (8021)		Temperature: 3,4	Container Preservative HEAL No TEX + Type and # Type SNU5% BTEX +	4a DI3	-014	-015	-010-	★ -017				Hind Date	1) A How the time time 2.0 July 2.0 July 2.0 July	ves 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.
Choic of Circled's December	Client: SMM Carlory Record		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	n Other	EDD (Type)	Date Time Matrix Sample Request ID	4618 11: a bil 14-2	11.8 [5-0.5	10.30 L3-3	12:00 [7-1'	~ 12:27 L7-2'				Date: Time: Relinquished by: 10/100530 hr A. Ukna	Relind	If necessary, complete submitted to Hall Environmental may be subco

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Hall Environmental Analysis	s Laborat	tory, Inc.		Analytical Report Lab Order 1805C46 Date Reported:
CLIENT: Souder, Miller & Associates			Client Samp	le 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 Qua	al Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	210	30	mg/Kg	20 5/24/2018 4:35:41 AM 38300

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

Hall Environmental Analysis	s Laborat	tory, Inc.		Analytical Report Lab Order 1805C46 Date Reported:	
CLIENT: Souder, Miller & Associates			Client Samp	le 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				Analys	st: MRA
Chloride	150	30	mg/Kg	20 5/24/2018 4:48:05 AM	38300

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Ana
	D	Sample Diluted Due to Matrix	Е	Val
	Н	Holding times for preparation or analysis exceeded	J	Ana
	ND	Not Detected at the Reporting Limit	Р	San
	PQL	Practical Quanitative Limit	RL	Rep

- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 0
- 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

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

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

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

COMMENTS

Operator: BOPCO, L.P.	OGRID: 260737
	Action Number: 199115
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)
COMMENTS	

COMMENTS

Created By	Comment	Comment Date
amaxwell	Historical document upload	3/21/2023

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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
amaxwell	None	3/21/2023

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Action 199115