

April 20, 2018

#5E26084-BG7

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

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE LUCID EMMA 8" STEEL LINE RELEASE (2RP-4646), EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher,

On behalf of Lucid Energy Group (Lucid), Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, initial delineation and remediation for the Emma 8" steel line release. The site is in SECTION 21, TOWNSHIP 19S, RANGE 24E, NMPM, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and location of the site. Table 1 summarizes information regarding the release.

Table 1: Rele	Table 1: Release information and Site Ranking						
Name	Emma 8" Steel Line						
Company	Lucid Energy Group						
RP Number	2RP-4646						
API Number	fAB1806440448						
Location	32.640143°, -104.592043°						
Estimated Date of Release	2/26/2018						
Date Reported to NMOCD	2/28/2018						
Land Owner	Private						
Reported To	NMOCD District II						
Source of Release	Pipeline						
Released Material	Natural Gas and pipeline fluids						
Released Volume	<500 Mcf, <10 bbls						
Recovered Volume	0						
Net Release	<500 Mcf, <10 bbls						
Nearest Waterway	3,000 feet south of North Seven Rivers Draw						
Depth to Groundwater	Estimated to be greater than 200'						
Nearest Domestic Water Source	Greater than 1,000 feet						
NMOCD Ranking	0						
SMA Response Dates	3/5/2018, 3/8/2018, 4/3/2018						

1.0 Background

On February 26, 2018, a pipeline leak occurred along the buried, Emma 8" steel pipeline due to corrosion. The release point occurred at the intersection of three pipelines, the 8-inch gas line, a 6-inch water line, and another 6-inch gas line that runs perpendicular to the first two. The pipeline was shut in, excavated for repair, and all potentially impacted soils were stock piled on a liner. The primary impacted area is approximately 15 feet long by 10 feet wide. Liquids also impacted approximately 250 feet along a two track road that parallels the ROW.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 3000 feet south of North Seven Rivers Draw, with an elevation of approximately 3,718 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. Seven wells are located within a three-mile radius of the site. An eighth well (RA 09923 with a depth of 25 feet bgs) is listed as located in the area, but a review of all available documents on the NMOSE site show this well is actually located in Chavez county. Supporting documents can be found in Appendix B. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 200 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 in Table 2 are 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

Table 2

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 March 5, 2018 SMA field personnel assessed the release area. Repair crews were still on location to work on the open pipeline excavation, and SMA was unable to collect samples from the pipeline excavation. However, SMA collected samples from the area down the two-track road at this time. Three discreet sample locations were collected (L1-L3) at depths of 0.5 to 1.0 feet bgs , two of which had elevated chlorides, and on sample, L2, had hydrocarbon impact above NMOCD RRAL's.

Once repairs were completed, SMA staff returned on March 8, 2018 to sample the open excavation. The excavated area, which was approximately 10 feet deep, was investigated by collecting three bottom hole samples, (BH1-BH3) and four side wall samples (SW1-SW4).

Soil samples were field-screened using an EC meter. 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 analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015D. Sample locations are depicted on Figure 2. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

Samples collected from the ROW indicated elevated chlorides in the two nearest the release, and Sample L2, had hydrocarbon impacts above NMOCD RRAL's. The sample farthest from the release was below all RRAL's, indicating the extent of the flow has been delineated. Samples collected from the excavated area were all within RRAL's for hydrocarbon impacts, but chloride impacts remained, and required further excavation.

4.0 Soil Remediation Summary

On April 3, 2018, after receiving 811 clearance, SMA returned to the site to remediate affected soils. On the two-track runoff area, L1 was excavated to 1-foot bgs, L2 was excavated to 1.5-feet bgs, and L3 was excavated to 2 feet bgs. Due to the presence of multiple buried lines, and a thick bedrock layer, continuation of the open excavation was slow and difficult. However, the excavation was extended to approximately 11 feet bgs on each side of the pipeline (BH1 and BH3), by approximately 0.5 feet by hand beneath the pipeline (BH2), and by 2 feet horizontally on the east and west (SW1 and SW3). Confirmation samples collected from the bottom and sidewalls of the excavation resulted in contaminant levels below RRAL's as set by NMOCD except for bottom hole #2 (BH2) which was collected from directly beneath the two gas lines at the release point. No further action is recommended at this time.

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, 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.

Page 4 of 4

Emma 8" April 20,2018

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:

J. Austr Weyant

Austin Weyant Project Scientist

hauna Chubbuck

Shawna Chubbuck Senior Scientist

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

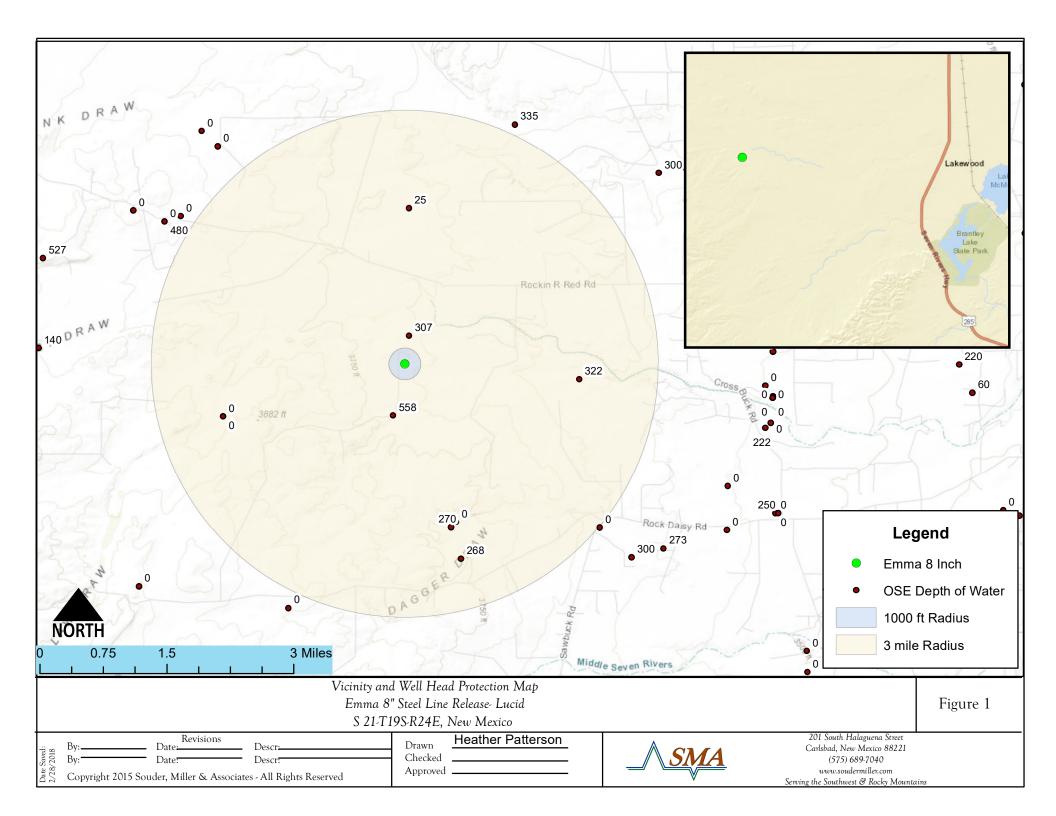


FIGURE 2 SITE AND SAMPLE LOCATION MAP

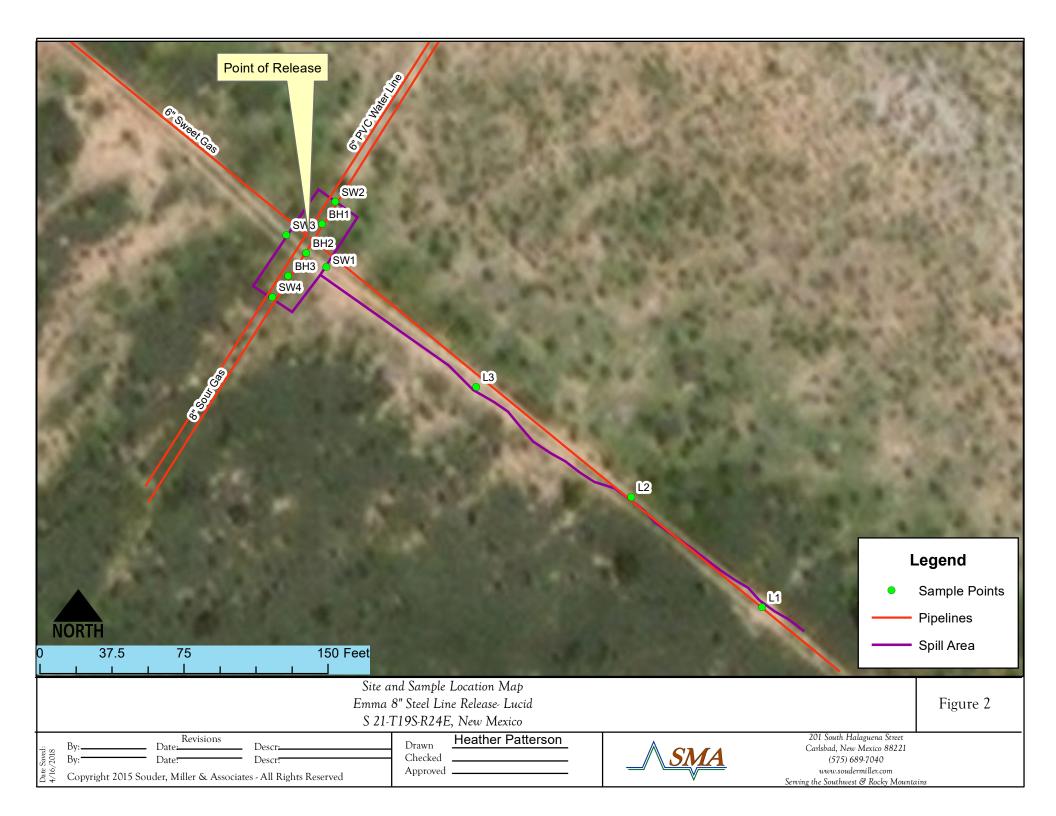


TABLE 3 SUMMARY SAMPLE RESULTS

Emma 8" Steel Line Release Sample Summary

Table 3.

Sample		Denth	Dran so a d	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Laboratory mg/Kg
NMOCD RRAL's for Site Ranking 0			50 mg/Kg	10 mg/Kg				5000 mg/Kg		
L1	3/5/2018	0.5	in-situ	1.74	<0.024	12	<9.7	<49	12	<30
LI	3/5/2018	1	in-situ	0.58	<0.024	5.4	<9.7	<48	5.4	<30
	3/5/2018	0.5	excavated	72.8	<0.48	1300	6000	<500	7300	5100
L2	3/5/2018	1	excavated	95.6	<0.47	1600	4300	260	6160	4300
	3/5/2018	1.5	in-situ	0.4	<0.025	17	290	52	359	480
	3/5/2018	0.5	excavated	21.58	<0.24	560	3,800	300	4,660	5100
L3	3/5/2018	1	excavated	8.26	<0.12	340	1400	100	1840	1800
	4/3/2018	2	in-situ	<0.23	<0.023	<4.7	<9.6	<48	<63	56
BH1	3/8/2018	10	excavated	1.9	<0.047	77	930	130	1137	1600
впі	4/3/2018	11	in-situ							<30
BH2	3/8/2018	9	excavated	3.11	<0.046	120	1600	230	1950	5600
δΠΖ	4/3/2018	9.5	in-situ							1800
BH3	3/8/2018	10	excavated	4.14	<0.047	140	2000	260	2400	1900
внз	4/3/2018	10.5	in-situ							270
SW1	3/8/2018	sidewall	excavated	0.23	<0.023	8.7	140	<45	148.7	6300
2001	4/3/2018	sidewall	in-situ							640
SW2	3/8/2018	sidewall	in-situ	4.6	0.23	63	28	<50	91	<30
SW/2	3/8/2018	sidewall	excavated	6.04	<0.05	140	3100	520	3760	23000
SW3	4/3/2018	sidewall	in-situ							<30
SW4	3/8/2018	sidewall	in-situ	<0.23	<0.024	<4.7	<8.6	<43	<57	<30
SP	3/5/2018	spill pile	haul	58.1	<0.24	970	4200	390	5560	1500

"--" = Not Analyzed

APPENDIX A FORM C141 INITIAL AND FINAL

									DNSEF		ON	
<u>District I</u> 1625 N. French Dr., Distric <u>t II</u>	Hobbs, 1	VM 88240				New Mex and Natura	ico I Resources	MAƙ	0120	318	Revised	Form C-141 1 August 8, 2011
811 S. First St., Arte District III	esia, NM	88210							ubmit 1 (Copy to a		-
1000 Rio Brazos Ro District IV	ad, Aztec	, NM 87410				St. Franc		RE	CEIVE	Daccord	dance with 19.	strict Office in .15.29 NMAC.
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NABISOU	44D	92					RATOR		х	Initia	l Report	Final Repor
Name of Comp	any: Lu	icid Energy		#3710								
Address 201 Facility Name:				8210			No. 575 513-8 e: Pipeline RC					
Surface Owner	: R. Ho	ightaling		Mineral C)wner				API	No.		
				LOCA	TION	OF REI	EASE					
	ection	Township	Range	Feet from the		South Line	Feet from the	East	t/West Li		ounty	
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L.,				Latitude 32.6	401430	Longitude	-104 5920439	 >				
						OF RELI						
Type of Release:	Natural	Gas, and pip	eline liqui		UKE		LASE Release: <500 N	Mcf of	Volur	ne Reco	vered: None	
						gas; < 10bbls of pipeline liquids						
Source of Release	e: Leakii	ng nange in t	ne line.			Date and Hour of Occurrence: Date and Hour of Discovery: 2/26/2018					y: 2/20/2018	
Was Immediate N	Notice G		Yes 🗌	No 🛛 Not Re	quired	If YES, To Whom? ed						
By Whom?						Date and Hour						
Was a Watercour	se Reacl		Yes 🛛	No		If YES, Volume Impacting the Watercourse.						
If a Watercourse	was Imm							<u> </u>				
Describe Cause o	f Proble	m and Remed	lial Action	n Taken.* The so							with internal	corrosion.
Upon discovery t Describe Area Af					r loss. T	ne line remai	ns down until re	pairs c	an be ma	<u>de.</u>		······
The surface area pipeline ROW, ar scrapped off of th	around ti nd ran fo	he source of t r several hun	he leak is dred feet a	approximately 15 along the track. Th	he affect	ed area will b	e excavated and	d the tw	o track v	vill have	e the contamin	
I hereby certify the regulations all op public health or the should their opera or the environment federal, state, or the	nat the interators a he environations hat	formation gives the required to the forment. The ve failed to a dition, NMO	ven above o report an acceptanc dequately CD accep	is true and compl d/or file certain re e of a C-141 repo investigate and re	ete to the clease no rt by the cmediate	e best of my tifications an NMOCD ma contaminatio	knowledge and id perform corre arked as "Final I on that pose a th	underst ctive a Report" reat to	and that ctions for does not ground w	releases releases relieve rater, sur	to NMOCD r s which may e the operator o face water, hu	ndanger f liability 1man health
Signature: Mory Gr							OIL CON		VATIO	DN DI	VISION	
Printed Name: Kerry Egan					A	pproved by]	Signo Environmental S	d By Speciali	st:	P K)r	Mather Care	·
Title: Environme	ental Cor	npliance Coo	rdinator		A	pproval Date	: 351	8	Expirati	on Date	NIA	
E-mail Address:	KEgan@)lucid-energy			c	onditions of	Approval:	ton	had	А	ttached	dhah
Date: 2/28/	2018 al Sheet	s If Necessa		575 810-6021			JE M	IIIC	ICU		CN-	

Operator/Responsible Party,

The OCD has received the form C-141 you provided on <u>3/1/2018</u> regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>3/1/2018</u> 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 <u>2</u> office in <u>ARTESIA</u> on or before <u>4/1/2018</u>. 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

APPENDIX B NMOSE WELLS REPORT



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

(R=POD has (A CLW##### in the been replaced, POD suffix indicates the POD has been replaced O=orphaned, & no longer serves a C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) water right file.) closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) POD Sub-QQQ **Depth Depth Water POD Number** Code basin County 64 16 4 Sec Tws Rng Х Υ Distance Well Water Column RA 05576 ED 1 4 21 19S 24E 538353 3611992* 513 320 307 13 ED 2 2 3 28 19S 24E 538058 3610471* 600 558 RA 05676 1035 42 RA 09923 R CH 1 2 16 19S 24E 538334 3614419* 2933 118 25 93 RA 05723 ED 3 3 34 19S 24E 539170 3608353* 3263 310 270 40 1 2 26 19S 24E 3611184* RA 04727 ED 541594 3348 354 322 32 03 20S 24E 330 RA 03084 FD 539366 3607752* 3895 268 62 1 ED 35 19S 24E RA 04245 4 4 542005 3608363* 4877 300 ED 2 2 10 19S 24E 540341 3616025* 4992 440 335 105 RA 03960 Average Depth to Water: 297 feet 25 feet Minimum Depth: Maximum Depth: 558 feet Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 538259.7

Northing (Y): 3611486.85

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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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GENERAL AND WELL LOCATION	WELL OW			d & Rita L C	ruto	chfield		<u></u>			PHONE (OPTIONAL)					
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EN	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS															
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	(2.5 ACI	RE)	((10 ACRE)		(40 ACRE)		(160 ACRE)		SECTION			TOWNSHIP		RANGE	
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LOCATION 10.24.16.214 PAGE 1	F 2

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1700 JUL - 6

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ЧР	TYPE O	F PUMP:	SUBMER		U JET	NO PUMP – WELL NOT EQUIP OTHER – SPECIFY:	PED		
PUA									
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5. SE	GRAVE	L PACK	0 0	25 🗗	8 3/4 🗗	3/8 bentonite grout	£	<u> </u>	
		_							
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7. TEST & ADDITIONA	ADDITION	IAL STATEN	MENTS OR EXPLA	NATIONS:					
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	FOR OS	E INTERN	AL_USE			· · · · · · · · · · · · · · · · · · ·	WELL RECORD & LOG	(Version 6/9/)8)
	FILE NU	MBER				POD NUMBER	TRN NUMBER		
	LOCATI	ON				ii	· :	PAGE 2 OF	2
			••)			5	

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File No. RA. 9923

2-37768



NEW MEXICO OFFICE OF THE STATE ENGINEER

CHANGE OF OWNERSHIP OF 72-12-1 PERMIT FOR (check one):

🔀 Individual

Corporation

1. OWNER OF RECORD (Seller)

Name:		Name:			
Rita L. Crutchfield		_			
Phone: 575-973-4336 Phone (Work):	🗍 Home 🕅 Cell	Phone: Phone (Work):	🗌 Home 🛄 Cell		
a. Owner of Record File No: RA-0	9923	b. Sub-file No.:	c. Cause No.:		

2. NEW OWNER (Buyer) Note: If more owners need to be listed, attach a separate sheet. Attached? 🗌 Yes

Name: Rodney A. LeMa	у	Name: Mary P. LeMay				
Contact or Agent:	check here if Agent	Contact or Agent:	check here if Agent			
Mailing Address: 1004 Corralito	s Drive	Mailing Address: 1004 Corralitos	Drive			
City: Roswell		City: Roswell				
State: NM	Zip Code: 88201	State: NM	Zip Code: 88201			
Phone: 676-623 -3 21 Phone (Work):	Home Cell	Phone: 675-623-321 Phone (Work):				
E-mail (optional):		E-mail (optional):				

Required: Submit warranty deed(s) or other instrument(s) of conveyance properly recorded with the county clerk's office.

				C., ***	62
3. AMOUNT CONVEY	ED			1	
Amount of Water (ac	re-feet per annum): 3.0				·
LIST ALL KNOWN	POINT(S) OF DIVERSION (POD) FOR THE 72-12-1 PERMIT C	ONVEYED		- 1. WWW	
OSE POD No.	Subdivision	Section	Township	Range	
	NW1/4 NE/14	16	105	27AE	3
	(Lot 4, Block 4 of Los Corralitos Subdivision No.3)				

FOR OSE INTERNAL USE	Change of Ownership, Form wr	02d, Revised 6/14/12	
File No .: RA . 9923	Tm No.: 600 395	Receipt No.: Q.	37768
Trans Desc. (optional):		Sub-Basin:	
			Page 1 of 2

5. ADDITIONAL STATEMENTS OR EXPLANATIONS

	ACKNOWLEDGEMENT FOR INDIVIDUAL
I, We (name of owner(s)),	Rodney A. LeMay and Mary P. LeMay Print Name(s)
affirm the foregoing st	atements are true to the best of (my, our) knowledge and belief.
Kodney	- a Jenay Mary Signature
State of New 1	Mexico
County of Chav	es)
This instrument was ackn	owledged before me this day of November A.D., 20 16 , by (name of owner(s)):
Rodney A. Lel	May and Mary P. LeMay
E CARA JES	OFFICIAL SEAL SICA JARAMILLO

ACKNOWLEDGEMENT FOR CORPORATION

I, We (name of owner(s)), Print Name(s) affirm that the foregoing statements are true to the best of (my, our) knowledge and belief. 982 <u>ر الم</u> Officer Signature Officer Signature State of 1.2 SS. County of) ______ _____ This instrument was acknowledged before me this _____day of ______A.D., 20 ___, by the following on behalf of said corporation. 02 Name of Officer: _____ Title of Officer: Name of Corporation Acknowledging: _____ State of Corporation: Notary Public: My commission expires: FOR OSE INTERNAL USE Change of Ownership, Form wr-02d, Revised 6/14/12 File No.: PA.992 Tm No.: 600395 Receipt No.: 🔿 -Trans Desc. (optional): CONNE Sub-Basin: Page 2 of 2

WARRANTY DEED – JOINT TENANTS

GF#1601348

Rita L. Crutchfield, a widow and surviving joint tenant of Troy D. Crutchfield, deceased, for consideration paid,

grants to: Rodney A. LeMay and Mary P. LeMay, husband and wife, as joint tenants

Whose address is:

1064 Corralito Drive Poswell NM 88201

the following described property situated in Chaves County, New Mexico.

LOT FOUR (4) in BLOCK FOUR (4) of LOS CORRALITOS SUBDIVISION NO. 3, a subdivision in the County of Chaves and State of New Mexico, as shown on the Official Boundary Adjustment Survey of Lots 4 and 5 of Block 4 of Los Corralitos Subdivision No. 3 filed in the Chaves County Clerk's Office on August 8, 2000 and recorded in Book S8 of Survey Records, Chaves County, New Mexico, at Page 33.

SUBJECT to all reservations contained in the Patent and all covenants, easements and restrictions of record and taxes of current year and there after.

With Warranty Covenants

WITNESS our hands and seals this $2\sqrt{10}$ day of November, 2016.

Rita L. Crutchfield

ACKNOWLEDGEMENT FOR NATURAL PERSONS

206

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STATE OF NEW MEXICO)) ss. COUNTY OF CHAVES)

This instrument was acknowledged before me this 2 day of November, 2016, by Rita L. Crutchfield, a widow and surviving joint tenant of Troy D. Crutchfield, deceased.

My Commission Expires: 1612017 STATE OF NEW MEXICO, COUNTY OF, CHAVES OFFICIAL SEAL JESSICA JARAMILLO FILE FOR RECORD NOV 22, 2016 AT 11.54 0 Receipt Number: 395876 Fee: \$25.00 NOTARY PUBLIC Book 00775 Page 00381 Pages 1 STATE OF NE My Commission Expires To Whom Returned: LANDMARK TITL WILL PICK UP Dave-Kunko, County/Clerk Deputy

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

. . . .

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 600395 File Nbr: RA 09923

Dec. 28, 2016

RODNEY A LEMAY 1004 CORRALITOS DR ROSWELLL, NM 88201

Greetings:

Enclosed is one original copy of a Change of Ownership of a Water Right submitted to this office for filing. This Change of Ownership is accepted for filing in accordance with Section 72-1-2.1, NMSA 1978 (1996 Supp.), effective May 15, 1996. The acceptance by the State Engineer Office does not constitute validation of the right claimed.

According to Section 72-1-2.1, NMSA 1978 (1996 Supp.), you must record this Change of Ownership with the clerk of the county in which the water is located. The filing shall be public notice of the existence and contents of the instruments so recorded.

Sincerely Claudi (575)622-6521

Enclosure

chngowrc

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 600395 File Nbr: RA 09923

Dec. 28, 2016

MARY P LEMAY 1004 CORRALITOS DR ROSWELL, NM 88201

Greetings:

Enclosed is one original copy of a Change of Ownership of a Water Right submitted to this office for filing. This Change of Ownership is accepted for filing in accordance with Section 72-1-2.1, NMSA 1978 (1996 Supp.), effective May 15, 1996. The acceptance by the State Engineer Office does not constitute validation of the right claimed.

According to Section 72-1-2.1, NMSA 1978 (1996 Supp.), you must record this Change of Ownership with the clerk of the county in which the water is located. The filing shall be public notice of the existence and contents of the instruments so recorded.

Sincerel Claudia iillen (575) 622 - 6521

Enclosure

chngowrc

Landmark Title Roswell 2724 N Wilshire Roswell, NM 88201 Phone: 575-622-534

December 7, 2016

New Mexico State Engineer 1900 West Second Street Roswell, NM 88201

> RE: File # 16-01348 1004 Corralitos Dr, Roswell RA-09923 Crutchfield to LeMay

To Whom It May Concern:

Pursuant to the above described transaction, enclosed please find the following:

- 1. Change of Ownership of Water Rights (3 originals)
- 2. Copy of recorded Warranty Deed from Rita L Crutchfield to Rodney & Mary LeMay (Book 00775, Page 00381)
- 3. Check #11951 from Landmark Title in the amount of \$2.00 for transfers of water rights.

Please return an Original of the Change of Ownership for us to record at the Chaves County Clerk's Office. If you need anything or have any questions, please do not hesitate to contact us.

Sincerely,

aula M Franco

Paula G Franco encl

APPENDIX C LABORATORY ANALYTICAL REPORTS



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

March 14, 2018

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

OrderNo.: 1803363

RE: Emma 8

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/7/2018 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 Analysis Laboratory, Inc.

Date Reported: 3/14/2018

CLIENT: Souder, Miller & Associates Project: Emma 8 Lab ID: 1803363-001	Client Sample ID: L1-0.5 Collection Date: 3/5/2018 9:55:00 AM Matrix: SOIL Received Date: 3/7/2018 9:50:00 AM								
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	: CJS			
Chloride	ND	30	mg/Kg	20	3/13/2018 3:02:30 AM	36973			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5			Analys	: TOM			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/9/2018 7:12:11 PM	36911			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/9/2018 7:12:11 PM	36911			
Surr: DNOP	82.5	70-130	%Rec	1	3/9/2018 7:12:11 PM	36911			
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	: NSB			
Gasoline Range Organics (GRO)	12	4.9	mg/Kg	1	3/8/2018 4:46:22 PM	36891			
Surr: BFB	142	15-316	%Rec	1	3/8/2018 4:46:22 PM	36891			
EPA METHOD 8021B: VOLATILES					Analys	: NSB			
Benzene	ND	0.024	mg/Kg	1	3/8/2018 4:46:22 PM	36891			
Toluene	0.12	0.049	mg/Kg	1	3/8/2018 4:46:22 PM	36891			
Ethylbenzene	0.12	0.049	mg/Kg	1	3/8/2018 4:46:22 PM	36891			
Xylenes, Total	1.5	0.098	mg/Kg	1	3/8/2018 4:46:22 PM	36891			
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	3/8/2018 4:46:22 PM	36891			

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 12
- 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.

Date Reported: 3/14/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: L1-1								
Project: Emma 8			Collection 1	Date: 3/5	2018 10:05:00 AM				
Lab ID: 1803363-002	Matrix:	SOIL	Received Date: 3/7/2018 9:50:00 AM						
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: CJS			
Chloride	ND	30	mg/Kg	20	3/13/2018 3:39:43 AM	36973			
EPA METHOD 8015M/D: DIESEL RANG		5			Analys	t: TOM			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/9/2018 7:36:34 PM	36911			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/9/2018 7:36:34 PM	36911			
Surr: DNOP	98.5	70-130	%Rec	1	3/9/2018 7:36:34 PM	36911			
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB			
Gasoline Range Organics (GRO)	5.4	4.8	mg/Kg	1	3/8/2018 5:09:32 PM	36891			
Surr: BFB	117	15-316	%Rec	1	3/8/2018 5:09:32 PM	36891			
EPA METHOD 8021B: VOLATILES					Analys	t: NSB			
Benzene	ND	0.024	mg/Kg	1	3/8/2018 5:09:32 PM	36891			
Toluene	ND	0.048	mg/Kg	1	3/8/2018 5:09:32 PM	36891			
Ethylbenzene	ND	0.048	mg/Kg	1	3/8/2018 5:09:32 PM	36891			
Xylenes, Total	0.58	0.096	mg/Kg	1	3/8/2018 5:09:32 PM	36891			
Surr: 4-Bromofluorobenzene	97.4	80-120	%Rec	1	3/8/2018 5:09:32 PM	36891			

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 S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 12 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Lab Order **1803363** Date Reported: **3/14/2018**

CLIENT: Souder, Miller & Associates		Client Sample ID: L2-0.5									
Project: Emma 8		Collection Date: 3/5/2018 10:04:00 AM									
Lab ID: 1803363-003	Matrix:	SOIL		Received Date: 3/7/2018 9:50:00 AM							
Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS						Analyst	MRA				
Chloride	5100	300		mg/Kg	200	3/13/2018 7:11:33 PM	36973				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	5				Analyst	TOM				
Diesel Range Organics (DRO)	6000	99		mg/Kg	10	3/13/2018 1:19:55 PM	36911				
Motor Oil Range Organics (MRO)	ND	500	D	mg/Kg	10	3/13/2018 1:19:55 PM	36911				
Surr: DNOP	0	70-130	S	%Rec	10	3/13/2018 1:19:55 PM	36911				
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	NSB				
Gasoline Range Organics (GRO)	1300	96		mg/Kg	20	3/8/2018 5:32:55 PM	36891				
Surr: BFB	460	15-316	S	%Rec	20	3/8/2018 5:32:55 PM	36891				
EPA METHOD 8021B: VOLATILES						Analyst	NSB				
Benzene	ND	0.48		mg/Kg	20	3/8/2018 5:32:55 PM	36891				
Toluene	3.7	0.96		mg/Kg	20	3/8/2018 5:32:55 PM	36891				
Ethylbenzene	6.1	0.96		mg/Kg	20	3/8/2018 5:32:55 PM	36891				
Xylenes, Total	63	1.9		mg/Kg	20	3/8/2018 5:32:55 PM	36891				
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	20	3/8/2018 5:32:55 PM	36891				

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 12
- 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.

Date Reported: 3/14/2018

CLIENT: Souder, Miller & Associates Project: Emma 8	Client Sample ID: L2-1 Collection Date: 3/5/2018 10:09:00 AM								
Lab ID: 1803363-004	Matrix:	SOIL		Received Date: 3/7/2018 9:50:00 AM					
Analyses	Result	PQL Q)ual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analys	st: MRA		
Chloride	4300	150		mg/Kg	100	3/13/2018 7:23:57 PM	36973		
EPA METHOD 8015M/D: DIESEL RANG		5				Analys	st: TOM		
Diesel Range Organics (DRO)	4300	46		mg/Kg	5	3/13/2018 10:33:56 A	A 36911		
Motor Oil Range Organics (MRO)	260	230		mg/Kg	5	3/13/2018 10:33:56 AM	A 36911		
Surr: DNOP	109	70-130		%Rec	5	3/13/2018 10:33:56 A	M 36911		
EPA METHOD 8015D: GASOLINE RANG	GE					Analys	st: NSB		
Gasoline Range Organics (GRO)	1600	94		mg/Kg	20	3/8/2018 6:19:30 PM	36891		
Surr: BFB	505	15-316	S	%Rec	20	3/8/2018 6:19:30 PM	36891		
EPA METHOD 8021B: VOLATILES						Analys	st: NSB		
Benzene	ND	0.47		mg/Kg	20	3/8/2018 6:19:30 PM	36891		
Toluene	5.6	0.94		mg/Kg	20	3/8/2018 6:19:30 PM	36891		
Ethylbenzene	8.0	0.94		mg/Kg	20	3/8/2018 6:19:30 PM	36891		
Xylenes, Total	82	1.9		mg/Kg	20	3/8/2018 6:19:30 PM	36891		
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	20	3/8/2018 6:19:30 PM	36891		

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 12
- 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.

CLIENT: Souder, Miller & Associates

Project: Emma 8

Date Reported: 3/14/2018 Client Sample ID: L2-1.5 Collection Date: 3/5/2018 10:13:00 AM

- i ojeetti - iiiii o								
Lab ID: 1803363-005	Matrix:	Received	Received Date: 3/7/2018 9:50:00 AM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: CJS		
Chloride	480	30	mg/Kg	20	3/13/2018 4:41:45 AM	36973		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	6			Analys	t: TOM		
Diesel Range Organics (DRO)	290	9.4	mg/Kg	1	3/9/2018 8:49:51 PM	36911		
Motor Oil Range Organics (MRO)	52	47	mg/Kg	1	3/9/2018 8:49:51 PM	36911		
Surr: DNOP	91.2	70-130	%Rec	1	3/9/2018 8:49:51 PM	36911		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB		
Gasoline Range Organics (GRO)	17	5.0	mg/Kg	1	3/8/2018 7:06:01 PM	36891		
Surr: BFB	204	15-316	%Rec	1	3/8/2018 7:06:01 PM	36891		
EPA METHOD 8021B: VOLATILES					Analys	t: NSB		
Benzene	ND	0.025	mg/Kg	1	3/8/2018 7:06:01 PM	36891		
Toluene	ND	0.050	mg/Kg	1	3/8/2018 7:06:01 PM	36891		
Ethylbenzene	ND	0.050	mg/Kg	1	3/8/2018 7:06:01 PM	36891		
Xylenes, Total	0.40	0.10	mg/Kg	1	3/8/2018 7:06:01 PM	36891		
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	3/8/2018 7:06:01 PM	36891		
		-						

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
- 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 5 of 12
- 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.

Date Reported: 3/14/2018

CLIENT:Souder, Miller & AssociatesProject:Emma 8Lab ID:1803363-006	Client Sample ID: L3-0.5Collection Date: 3/5/2018 9:50:00 AMMatrix: SOILReceived Date: 3/7/2018 9:50:00 AM								
Analyses	Result	PQL ()ual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analys	t: MRA		
Chloride	5100	300		mg/Kg	200	3/13/2018 7:36:22 PM	36973		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S				Analys	t: TOM		
Diesel Range Organics (DRO)	3800	50		mg/Kg	5	3/13/2018 11:30:02 AM	/ 36911		
Motor Oil Range Organics (MRO)	300	250		mg/Kg	5	3/13/2018 11:30:02 AM	/ 36911		
Surr: DNOP	108	70-130		%Rec	5	3/13/2018 11:30:02 AM	/ 36911		
EPA METHOD 8015D: GASOLINE RANG	Ε					Analys	t: NSB		
Gasoline Range Organics (GRO)	560	48		mg/Kg	10	3/8/2018 7:52:50 PM	36891		
Surr: BFB	453	15-316	S	%Rec	10	3/8/2018 7:52:50 PM	36891		
EPA METHOD 8021B: VOLATILES						Analys	t: NSB		
Benzene	ND	0.24		mg/Kg	10	3/8/2018 7:52:50 PM	36891		
Toluene	0.68	0.48		mg/Kg	10	3/8/2018 7:52:50 PM	36891		
Ethylbenzene	1.9	0.48		mg/Kg	10	3/8/2018 7:52:50 PM	36891		
Xylenes, Total	19	0.97		mg/Kg	10	3/8/2018 7:52:50 PM	36891		
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	10	3/8/2018 7:52:50 PM	36891		

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 12
- 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.

Date Reported: 3/14/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: L3-1										
Project: Emma 8		Collection Date: 3/5/2018 10:00:00 AM									
Lab ID: 1803363-007	Matrix:	SOIL		Received 1	Date: 3/7	/2018 9:50:00 AM					
Analyses	Result	PQL ()ual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS						Analyst	MRA				
Chloride	1800	75		mg/Kg	50	3/13/2018 7:48:47 PM	36973				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6				Analyst	TOM				
Diesel Range Organics (DRO)	1400	20		mg/Kg	2	3/12/2018 1:11:58 PM	36911				
Motor Oil Range Organics (MRO)	100	99		mg/Kg	2	3/12/2018 1:11:58 PM	36911				
Surr: DNOP	93.6	70-130		%Rec	2	3/12/2018 1:11:58 PM	36911				
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB				
Gasoline Range Organics (GRO)	340	25		mg/Kg	5	3/8/2018 8:39:39 PM	36891				
Surr: BFB	552	15-316	S	%Rec	5	3/8/2018 8:39:39 PM	36891				
EPA METHOD 8021B: VOLATILES						Analyst	NSB				
Benzene	ND	0.12		mg/Kg	5	3/8/2018 8:39:39 PM	36891				
Toluene	0.26	0.25		mg/Kg	5	3/8/2018 8:39:39 PM	36891				
Ethylbenzene	ND	0.25		mg/Kg	5	3/8/2018 8:39:39 PM	36891				
Xylenes, Total	8.0	0.50		mg/Kg	5	3/8/2018 8:39:39 PM	36891				
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	5	3/8/2018 8:39:39 PM	36891				

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
- D Sample Diffeed 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 12
- 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.

Date Reported: 3/14/2018

CLIENT:Souder, Miller & AssociatesProject:Emma 8Lab ID:1803363-008	Client Sample ID: SP1 Collection Date: 3/5/2018 10:30:00 AM Matrix: SOIL Received Date: 3/7/2018 9:50:00 AM						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	st: MRA	
Chloride	1500	75	mg/Kg	50	3/13/2018 8:01:12 PM	36973	
EPA METHOD 8015M/D: DIESEL RANGE		S			Analys	st: TOM	
Diesel Range Organics (DRO)	4200	48	mg/Kg	5	3/13/2018 12:25:07 PM	VI 36911	
Motor Oil Range Organics (MRO)	390	240	mg/Kg	5	3/13/2018 12:25:07 PM	VI 36911	
Surr: DNOP	107	70-130	%Rec	5	3/13/2018 12:25:07 PI	VI 36911	
EPA METHOD 8015D: GASOLINE RANG	ε				Analys	st: NSB	
Gasoline Range Organics (GRO)	970	49	mg/Kg	10	3/8/2018 9:26:25 PM	36891	
Surr: BFB	566	15-316	S %Rec	10	3/8/2018 9:26:25 PM	36891	
EPA METHOD 8021B: VOLATILES					Analys	st: NSB	
Benzene	ND	0.24	mg/Kg	10	3/8/2018 9:26:25 PM	36891	
Toluene	3.3	0.49	mg/Kg	10	3/8/2018 9:26:25 PM	36891	
Ethylbenzene	4.8	0.49	mg/Kg	10	3/8/2018 9:26:25 PM	36891	
Xylenes, Total	50	0.97	mg/Kg	10	3/8/2018 9:26:25 PM	36891	
Surr: 4-Bromofluorobenzene	116	80-120	%Rec	10	3/8/2018 9:26:25 PM	36891	

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, Emma 8	Miller & Ass	sociate	es							
Sample ID	MB-36973	SampTy	pe: ml	olk	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch	ID: 36	973	RunNo: 49736						
Prep Date:	3/12/2018	Analysis Da	te: 3/	/13/2018	5	SeqNo: 1	608868	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-36973	SampTy	pe: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 36	973	F	RunNo: 4	9736				
Prep Date:	3/12/2018	Analysis Da	te: 3/	13/2018	S	SeqNo: 1	608869	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.0	90	110			

Qualifiers:

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

Page 9 of 12

Client:SouderProject:Emma	, Miller & A 8	ssociate	es							
Sample ID LCS-36911	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batcl	h ID: 36	911	F	RunNo: 49665					
Prep Date: 3/8/2018	Analysis D	Date: 3	9/2018	SeqNo: 1606616			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	70	130			
Surr: DNOP	4.0		5.000		80.3	70	130			
Sample ID MB-36911	SampT	уре: МІ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batcl	h ID: 36	911	F	anNo: 4	9665				
Prep Date: 3/8/2018	Analysis D	Date: 3/	9/2018	S	SeqNo: 1	606617	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
7 11 101) 10	. too all									
Diesel Range Organics (DRO)	ND	10								
		10 50								

- * 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 10 of 12

Client: Souder, Project: Emma 8	Miller & A 3	ssociate	28							
Sample ID MB-36891	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	n ID: 36	891	F	RunNo: 4	9653				
Prep Date: 3/7/2018	Analysis D	ate: 3/	8/2018	S	SeqNo: 1	605661	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.5	15	316			
Sample ID LCS-36891	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	е	
Client ID: LCSS	Batch	n ID: 36	891	F	RunNo: 4	9653				
Prep Date: 3/7/2018	Analysis D	ate: 3/	8/2018	5	SeqNo: 1	605662	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	75.9	131			
Surr: BFB	1100		1000		113	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 11 of 12

Client:	Souder, N	liller & A	ssociate	es							
Project:	Emma 8										
Sample ID MB-3	6891	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS		Batch	h ID: 36	891	F	RunNo: 4	9653				
Prep Date: 3/7/2	2018	Analysis D	Date: 3/	8/2018	5	SeqNo: 1	605685	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Kylenes, Total		ND	0.10								
Surr: 4-Bromofluorol	oenzene	0.95		1.000		94.6	80	120			
Sample ID LCS-:	36891	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSS	i	Batch	h ID: 36	891	F	RunNo: 4	9653				
Prep Date: 3/7/2	2018	Analysis D	Date: 3/	8/2018	5	SeqNo: 1	605686	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte			I GL	0							
,		1.0	0.025	1.000	0	104	77.3	128			
Benzene					0 0		77.3 79.2	128 125			
Senzene Foluene		1.0	0.025	1.000	-	104		-			
Benzene Toluene Ethylbenzene Xylenes, Total		1.0 1.0	0.025 0.050	1.000 1.000	0	104 103	79.2	125			

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 12

WO#: 1803363 14-Mar-18

ANALYSIS LABORATORY	Hall Environmental A Albug TEL: 505-345-3975 F Website: www.hall.	4901 Hawkins uerque, NM 87 AX: 505-345-4	NE 109 Sar 107	nple Log-In C	heck List
Client Name: SMA-CARLSBAD V	Vork Order Number	1803363		RcptNo:	1
Received By: Mandy Woods 3/7.	/2018 9:50:00 AM		you		
and a second second second second	2018 11:06:05 AM		Ma		
Reviewed By: Sile 03/07/18	2018 11:06:05 AM		ma	7	
Chain of Custoda		Label	ed B	4 705	
Chain of Custody		11/2	-	· ·	
 Is Chain of Custody complete? How was the sample delivered? 		res ☑ ≥ourier	No 🗌	Not Present	
	2	<u>ound</u>			
Log In 3. Was an attempt made to cool the samples?	Y	'es 🗹	No 🗌	NA 🗌	
Were all samples received at a temperature of >0	°C to 6.0°C Y	es 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?	Y	es 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Y	es 🔽	No 🗆		
7. Are samples (except VOA and ONG) properly pres	erved? Ye	es 🗹	No 🗆		
8. Was preservative added to bottles?	Ye	es 🗆	No 🗹	NA 🗆	
VOA vials have zero headspace?	Ye	es 🗆	No 🗌	No VOA Vials 🔽	
0. Were any sample containers received broken?	Y	es 🗆	No 🗹		
1. Does paperwork match bottle labels?	Ye	es 🔽	No 🗆	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custod	1.0 V.		No 🗆	<2 or > Adjusted?	12 unless noted)
 Is it clear what analyses were requested? 		s⊻ s√		/ cjusteur	
 Were all holding times able to be met? (If no, notify customer for authorization.) 		s 🗹		Checked by:	
pecial Handling (if applicable)			0		
5. Was client notified of all discrepancies with this ord	ier? Ye	es 🗆	No 🗆	NA 🔽	
Person Notified:	Date:				
By Whom:	·	Mail 🗌 Pho	ne 🗌 Fax	In Person	
Regarding:					
Client Instructions:			-		
6. Additional remarks:					
7. Cooler Information					
Cooler No Temp °C Condition Seal Inta	ct Seal No Seal	Date Si	gned By		
1 1.4 Good Yes		3	9.00 Dy		
			Control and the second second second		

dard I Level 4 (Full Validation) tation AP D Other Time Matrix Sample Request ID <i>9</i> :57 Soil L1 - 0.5 biol L2 - 1.5 for 10:13 L2 - 1.5 for 10:13 L2 - 1.5 for 10:13 L2 - 1.5
Relinciplished by Relinciplished by Relinciplished by Relinciplished by



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

March 29, 2018

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

OrderNo.: 1803670

RE: Emma 8"

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/13/2018 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 Analysis Laboratory, Inc.

Lab Order 1803670 Date Reported: 3/29/2018

CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW	/1	
Project: Emma 8"			Collection 2	Date: 3/8	/2018 3:05:00 PM	
Lab ID: 1803670-001	Matrix:	SOIL	Received	Date: 3/1	3/2018 9:40:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	6300	300	mg/Kg	200	3/27/2018 5:53:07 PM	37209
EPA METHOD 8015M/D: DIESEL RANG		;			Analys	t: TOM
Diesel Range Organics (DRO)	140	9.1	mg/Kg	1	3/15/2018 2:22:24 PM	37027
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/15/2018 2:22:24 PM	37027
Surr: DNOP	121	70-130	%Rec	1	3/15/2018 2:22:24 PM	37027
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	: NSB
Gasoline Range Organics (GRO)	8.7	4.6	mg/Kg	1	3/15/2018 12:21:48 AM	36995
Surr: BFB	157	15-316	%Rec	1	3/15/2018 12:21:48 AM	36995
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.023	mg/Kg	1	3/15/2018 12:21:48 AM	36995
Toluene	ND	0.046	mg/Kg	1	3/15/2018 12:21:48 AM	36995
Ethylbenzene	ND	0.046	mg/Kg	1	3/15/2018 12:21:48 AM	36995
Xylenes, Total	0.23	0.092	mg/Kg	1	3/15/2018 12:21:48 AM	36995
Surr: 4-Bromofluorobenzene	120	80-120 S	%Rec	1	3/15/2018 12:21:48 AM	36995

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
- 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 11
- 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.

Lab Order 1803670 Date Reported: 3/29/2018

CLIENT:Souder, Miller & AssociatesProject:Emma 8"Lab ID:1803670-002	Matrix:	SOIL	Collection	ple ID: SW2 n Date: 3/8/2018 3:1 d Date: 3/13/2018 9:		
Analyses	Result	PQL Qu	al Units	DF Date An	alyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CJS
Chloride	ND	30	mg/Kg	20 3/23/201	8 5:23:40 PM	37209
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANIC	cs			Analyst:	том
Diesel Range Organics (DRO)	28	10	mg/Kg	1 3/15/201	8 2:46:50 PM	37027
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1 3/15/201	8 2:46:50 PM	37027
Surr: DNOP	101	70-130	%Rec	1 3/15/201	8 2:46:50 PM	37027
EPA METHOD 8015D: GASOLINE RANG	ε				Analyst:	NSB
Gasoline Range Organics (GRO)	63	9.6	mg/Kg	2 3/15/201	8 12:45:18 AM	36995
Surr: BFB	182	15-316	%Rec	2 3/15/201	8 12:45:18 AM	36995
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.23	0.048	mg/Kg	2 3/15/201	8 12:45:18 AM	36995
Toluene	1.7	0.096	mg/Kg	2 3/15/201	8 12:45:18 AM	36995
Ethylbenzene	0.27	0.096	mg/Kg	2 3/15/201	8 12:45:18 AM	36995
Xylenes, Total	2.4	0.19	mg/Kg	2 3/15/201	8 12:45:18 AM	36995
Surr: 4-Bromofluorobenzene	130	80-120	S %Rec	2 3/15/201	8 12:45:18 AM	36995

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

Date Reported: 3/29/2018

CLIENT:Souder, Miller & AssociatesProject:Emma 8"Lab ID:1803670-003	Matrix:	SOIL	C		Date: 3/8/	'3 /2018 3:13:00 PM 3/2018 9:40:00 AM	
Analyses	Result	PQL ()ual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	23000	750		mg/Kg	500	3/27/2018 6:05:32 PM	37217
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	5				Analyst	TOM
Diesel Range Organics (DRO)	3100	90		mg/Kg	10	3/15/2018 3:11:23 PM	37027
Motor Oil Range Organics (MRO)	520	450		mg/Kg	10	3/15/2018 3:11:23 PM	37027
Surr: DNOP	0	70-130	S	%Rec	10	3/15/2018 3:11:23 PM	37027
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	: NSB
Gasoline Range Organics (GRO)	140	10		mg/Kg	2	3/15/2018 1:08:38 AM	36995
Surr: BFB	437	15-316	S	%Rec	2	3/15/2018 1:08:38 AM	36995
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.050		mg/Kg	2	3/15/2018 1:08:38 AM	36995
Toluene	0.61	0.10		mg/Kg	2	3/15/2018 1:08:38 AM	36995
Ethylbenzene	0.45	0.10		mg/Kg	2	3/15/2018 1:08:38 AM	36995
Xylenes, Total	4.8	0.20		mg/Kg	2	3/15/2018 1:08:38 AM	36995
Surr: 4-Bromofluorobenzene	142	80-120	S	%Rec	2	3/15/2018 1:08:38 AM	36995

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

- 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 11
- 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.

Date Reported: 3/29/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: SW4					
Project: Emma 8"			Collection 1	Date: 3/8	/2018 3:15:00 PM	
Lab ID: 1803670-004	Matrix:	SOIL	Received	Date: 3/1	3/2018 9:40:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SRM
Chloride	ND	30	mg/Kg	20	3/25/2018 10:58:15 AM	1 37217
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analys	t: TOM
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	3/15/2018 3:35:50 PM	37027
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	3/15/2018 3:35:50 PM	37027
Surr: DNOP	106	70-130	%Rec	1	3/15/2018 3:35:50 PM	37027
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/14/2018 9:54:12 AM	36995
Surr: BFB	96.1	15-316	%Rec	1	3/14/2018 9:54:12 AM	36995
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	3/15/2018 1:32:03 AM	36995
Toluene	ND	0.047	mg/Kg	1	3/15/2018 1:32:03 AM	36995
Ethylbenzene	ND	0.047	mg/Kg	1	3/15/2018 1:32:03 AM	36995
Xylenes, Total	ND	0.095	mg/Kg	1	3/15/2018 1:32:03 AM	36995
Surr: 4-Bromofluorobenzene	129	80-120 S	%Rec	1	3/15/2018 1:32:03 AM	36995

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 11
- 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.

Lab Order **1803670** Date Reported: **3/29/2018**

CLIENT: Souder, Miller & Associates		Client Sample ID: BH1-10 Collection Date: 3/8/2018 3:17:00 PM					
Project: Emma 8"				Collection	Date: 3/8	/2018 3:17:00 PM	
Lab ID: 1803670-005	Matrix:	SOIL		Received 1	Date: 3/1	3/2018 9:40:00 AM	
Analyses	Result	PQL ()ual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	1600	75		mg/Kg	50	3/27/2018 6:42:45 PM	37217
EPA METHOD 8015M/D: DIESEL RANG		5				Analys	t: TOM
Diesel Range Organics (DRO)	930	20		mg/Kg	2	3/16/2018 8:42:48 AM	37027
Motor Oil Range Organics (MRO)	130	100		mg/Kg	2	3/16/2018 8:42:48 AM	37027
Surr: DNOP	106	70-130		%Rec	2	3/16/2018 8:42:48 AM	37027
EPA METHOD 8015D: GASOLINE RAN	GE					Analys	t: NSB
Gasoline Range Organics (GRO)	77	9.4		mg/Kg	2	3/15/2018 1:55:16 AM	36995
Surr: BFB	365	15-316	S	%Rec	2	3/15/2018 1:55:16 AM	36995
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.047		mg/Kg	2	3/15/2018 1:55:16 AM	36995
Toluene	0.37	0.094		mg/Kg	2	3/15/2018 1:55:16 AM	36995
Ethylbenzene	0.17	0.094		mg/Kg	2	3/15/2018 1:55:16 AM	36995
Xylenes, Total	1.3	0.19		mg/Kg	2	3/15/2018 1:55:16 AM	36995
Surr: 4-Bromofluorobenzene	142	80-120	S	%Rec	2	3/15/2018 1:55:16 AM	36995

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 11
- 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.

Lab Order **1803670** Date Reported: **3/29/2018**

CLIENT:Souder, Miller & AssociatesProject:Emma 8"Lab ID:1803670-006	Matrix:	SOIL		Client Sample ID: BH2-9 Collection Date: 3/8/2018 3:21:00 PM Received Date: 3/13/2018 9:40:00 AM					
Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analys	t: MRA		
Chloride	5600	300		mg/Kg	200	3/27/2018 6:55:09 PM	37217		
EPA METHOD 8015M/D: DIESEL RANG		5				Analys	t: TOM		
Diesel Range Organics (DRO)	1600	18		mg/Kg	2	3/16/2018 9:31:53 AM	37027		
Motor Oil Range Organics (MRO)	230	92		mg/Kg	2	3/16/2018 9:31:53 AM	37027		
Surr: DNOP	119	70-130		%Rec	2	3/16/2018 9:31:53 AM	37027		
EPA METHOD 8015D: GASOLINE RAN	GE					Analys	t: NSB		
Gasoline Range Organics (GRO)	120	9.2		mg/Kg	2	3/15/2018 2:18:41 AM	36995		
Surr: BFB	424	15-316	S	%Rec	2	3/15/2018 2:18:41 AM	36995		
EPA METHOD 8021B: VOLATILES						Analys	t: NSB		
Benzene	ND	0.046		mg/Kg	2	3/15/2018 2:18:41 AM	36995		
Toluene	0.41	0.092		mg/Kg	2	3/15/2018 2:18:41 AM	36995		
Ethylbenzene	0.30	0.092		mg/Kg	2	3/15/2018 2:18:41 AM	36995		
Xylenes, Total	2.4	0.18		mg/Kg	2	3/15/2018 2:18:41 AM	36995		
Surr: 4-Bromofluorobenzene	147	80-120	S	%Rec	2	3/15/2018 2:18:41 AM	36995		

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
- 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 6 of 11
- 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.

Lab Order **1803670** Date Reported: **3/29/2018**

CLIENT:Souder, Miller & AssociatesProject:Emma 8"Lab ID:1803670-007	Matrix: 3	SOIL			Date: 3/8	I3-10 3/2018 3:25:00 PM 3/2018 9:40:00 AM	
Analyses	Result	PQL ()ual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1900	75		mg/Kg	50	3/27/2018 7:07:34 PM	37217
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5				Analyst	: том
Diesel Range Organics (DRO)	2000	38		mg/Kg	4	3/16/2018 10:20:30 AM	37027
Motor Oil Range Organics (MRO)	260	190		mg/Kg	4	3/16/2018 10:20:30 AM	37027
Surr: DNOP	112	70-130		%Rec	4	3/16/2018 10:20:30 AM	37027
EPA METHOD 8015D: GASOLINE RANG	θE					Analyst	: NSB
Gasoline Range Organics (GRO)	140	9.4		mg/Kg	2	3/15/2018 2:42:09 AM	36995
Surr: BFB	566	15-316	S	%Rec	2	3/15/2018 2:42:09 AM	36995
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.047		mg/Kg	2	3/15/2018 2:42:09 AM	36995
Toluene	0.61	0.094		mg/Kg	2	3/15/2018 2:42:09 AM	36995
Ethylbenzene	0.33	0.094		mg/Kg	2	3/15/2018 2:42:09 AM	36995
Xylenes, Total	3.2	0.19		mg/Kg	2	3/15/2018 2:42:09 AM	36995
Surr: 4-Bromofluorobenzene	150	80-120	S	%Rec	2	3/15/2018 2:42:09 AM	36995

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

Client:	Souder, N	Ailler & Associate	es							
Project:	Emma 8"									
Sample ID	MB-37209	SampType: m	blk	Tes	tCode: E	PA Method	300.0: Anion:	5		
Client ID:	PBS	Batch ID: 37			lunNo: 5			-		
Prep Date:	3/23/2018	Analysis Date: 3	/23/2018	5	SeqNo: 1	620548	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-37209	SampType: Ic:	S	Tes	tCode: E	PA Method	300.0: Anion:	5		
Client ID:	LCSS	Batch ID: 37	209	R	unNo: 5	0034				
Prep Date:	3/23/2018	Analysis Date: 3	/23/2018	S	SeqNo: 1	620549	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	91.9	90	110			
Sample ID	MB-37217	SampType: M	BLK	Tes	tCode: E	PA Method	300.0: Anion:	6		
Client ID:	PBS	Batch ID: 37	217	R	unNo: 5	0064				
Prep Date:	3/23/2018	Analysis Date: 3	/25/2018	S	SeqNo: 1	621314	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-37217	SampType: LC	cs	Tes	tCode: E	PA Method	300.0: Anion:	6		
•		-			tCode: El RunNo: 5		300.0: Anion:	3		
•	LCSS	SampType: LC	217	R		0064	300.0: Anion Units: mg/K	-		
Client ID:	LCSS	SampType: LC Batch ID: 37	217 /25/2018	R	RunNo: 5	0064		-	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 8 of 11

WO#:	1803670

Client: Souder, Project: Emma 8	Miller & A 3"	ssociate	es							
Sample ID LCS-37027	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 37	027	F	anNo: 4	9816				
Prep Date: 3/14/2018	Analysis D	ate: 3/	15/2018	S	SeqNo: 1	612106	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	5.3		5.000		107	70	130			
Sample ID MB-37027	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 37	027	F	tunNo: 4	9816				
Prep Date: 3/14/2018	Analysis D	ate: 3/	/15/2018	S	SeqNo: 1	612107	Units: mg/	٤g		
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	11		10.00		111	70	130			

Qualifiers:

- * 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
- S % 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
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 9 of 11

Client: Project:	Souder, N Emma 8"	/liller & A	ssociate	es							
Sample ID	MB-36995	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	е	
Client ID:	PBS	Batch	n ID: 36	995	F	aunNo: 4	9775				
Prep Date:	3/13/2018	Analysis D	ate: 3	/14/2018	S	SeqNo: 1	611145	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND	5.0								
Surr: BFB		950		1000		95.4	15	316			
Sample ID	LCS-36995	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSS	Batch	n ID: 36	995	F	RunNo: 4	9775				
Prep Date:	3/13/2018	Analysis D	ate: 3	/14/2018	5	SeqNo: 1	611146	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
5	e Organics (GRO)	24	5.0	25.00	0	95.2	75.9	131			
Surr: BFB		1000		1000		102	15	316			
Sample ID	RB	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	PBS	Batch	n ID: G 4	19776	F	aunNo: 4	9776				
Prep Date:		Analysis D	ate: 3	/14/2018	S	SeqNo: 1	611239	Units: %Re	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		95.7	15	316			
Sample ID	2.5UG GRO LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	n ID: G 4	49776	F	RunNo: 4	9776				
Prep Date:		Analysis D	ate: 3	/14/2018	5	SeqNo: 1	611240	Units: %Ree	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		114	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 10 of 11

Client: Souder Project: Emma	, Miller & A 8"	Associate	es							
Sample ID MB-36995	Samp	Туре: М І	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 36	995	F	RunNo: 4	9775				
Prep Date: 3/13/2018	Analysis [Date: 3	/14/2018	S	SeqNo: 1	611192	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	80	120			
Sample ID LCS-36995	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 36	995	F	RunNo: 4	9775				
Prep Date: 3/13/2018	Analvsis [Date: 3	/14/2018	ę	SeaNo: 1	611193	Units: ma/k	(a		

Fiep Date. 3/13/2018	Analysis L	Jale. 3/	14/2010	3		011193	Units. mg/r	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	77.3	128			
Toluene	1.0	0.050	1.000	0	103	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127			
Xylenes, Total	3.1	0.10	3.000	0	104	81.6	129			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	80	120			

Qualifiers:

- 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
- Practical Quanitative Limit PQL
- S % 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
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 11 of 11

HALL ENVIRONME ANALYSIS LABORATOR		TEL: 505-34	490 Albuquerq 15-3975 FAX:	sis Laboratory I Hawkins NE ue, NM 87109 505-345-4107 onmental.com	Sar	nple Log-In C	Check List
Client Name: SMA-C.	ARLSBAD	Work Order N	umber: 1803	670		RcptNo	: 1
Received By: Mandy	/ Woods	3/13/2018 9:40:	00 AM	L.	hase	5	
Reviewed By: DD MW 3/3/18	lelendrez S ⁄	3/13/2018 10:32 3/13/18	<u></u>	И	i ng	5	
<u>Chain of Custody</u> 1. Is Chain of Custody co	malata?		Yes		No 🗌		
2. How was the sample d			res <u>Cour</u>			Not Present	
<u>Log In</u> 3. Was an attempt made	to cool the samples?		Yes		No 🗌	NA 🗌	
4. Were all samples recei	ved at a temperature o	f ≥0° C to 6.0°C	Yes		No 🗌	NA 🗔	
5. Sample(s) in proper co	ntainer(s)?		Yes		No 🗌		
6. Sufficient sample volun	ne for indicated test(s)	?	Yes		No 🗋		
7. Are samples (except V	DA and ONG) properly	preserved?	Yes		No 🗆		
8. Was preservative adde	d to bottles?		Yes		No 🔽	NA 🗀	
9. VOA vials have zero he	adspace?		Yes	1	No 🗌	No VOA Vials 🗹	
10, Were any sample conta	-	?	Yes		No 🔽		· · · · · · · · · · · · · · · · · · ·
11. Does paperwork match (Note discrepancies on			Yes		No 🗌	# of preserved bottles checked for pH:	>12 unless noted)
12, Are matrices correctly id	• •	ustody?	Yes	✓ N	No 🗌	Adjusted?	
13. Is it clear what analyses	were requested?	·		_	No 🗌	 - !	
14. Were all holding times a (If no, notify customer fo			Yes	۱ 🗸	No 🗌	Checked by:	
Special Handling (if a	pplicable)						
15. Was client notified of a		is order?	Yes		No 🗆	NA 🗹	
Person Notified:	The second secon	Da	ite:			·	
By Whom:		Via	,	il 🗌 Phone	🗌 Fax	In Person	
Regarding:		and an internal sector of the					· ·
Client Instructions	6:				and all stars of the second stars of	and a second	
16. Additional remarks:							J
17. <u>Cooler Information</u> Cooler No Temp 1 3.6	C Condition Sea Good Yes	l Intact Seal No	Seal Da	te Signe	ed By		

Ċ	-ulet	ot-Cl	Chain-of-Custody Record	I urn-Around I in	ne:S da	lime: S day turn												
Client:	SM	4	C'bul	Standard	□ Rush					A		Z	R.	S	HALL ENVIRONMENT	Z	A.	
				Project Name:					_				ב	R	ANALTSIS LABUKALUK		R.	
Mailing Address:	ddress:			Euru	na	: 2		4901	Hawl	4901 Hawkins NE	. 9	bugue	www.italienvironmental.com ns NE - Albuquerone, NM 87109	NM 8	87109			
				Project #:			_	Tel.	505-3	Tel. 505-345-3975	10	Fax	505-345-4107	15-41	20			
Phone #:											Ana	lysis	Analysis Request	sst	5			
email or Fax#:	ax#:			Project Manager:	1.		(_	10		-	(†		-			-	-
QA/QC Package:	ckage:			TV	1 1	1 .	1208				(S	OS'*	s,9(-			-	
X Standard	pro		Level 4 (Full Validation)	1 tring	2 m	1 dat) s,		0		WIS	04'	bd a	-		1		
Accreditation	tion	□ Other	ßr	Sampler: HC	24 fu	- 17 at Horson	amt ·				\$ 0/28	² ON' ⁸	7808 /	()	,	-		(IN-
EDD (Type)	Type)			Temp	ature: 3.1	. 7	+ 38			-	_							N OI
Date	Time	Matrix	Sample Request ID	Container Pro Type and #	Preservative Type	HEAL No.	TEX + MTB	3TM + X3T8	TPH (Method TPH (Method	EDB (Wetho	01:68) a'HA9 PAH's (83:10	(¶C)) snoinA	8081 Pesticid	AOV) 80828 -ime2) 0728			1	וי אוואאופ ו
3/4/83	3.05	Sor	SWI	705		198-	×			-	-		-	-			-	1
143	-		SWZ	1		-002	×	\times			-	×		-			-	-
1	3.13	Л	SW3			-003	7		X		-	×					-	
-	3:15	-	Swy	/		-00H	X	×				\times					-	-
	3.17	_	<i>w</i>			-005	×	1	X			×						-
	12:5	_	812 - 9			-006	×	×				×		_			-	
	3:25	-	8版4歳-10	~		-007	×	\times				X						
											-						+	
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Pate: 1 Tin	Time:	Relipquished	11	Received by:		Aate, Time	Remarks	arks.		-	_	-	-	_		-	_	
912/15/	2	Relinduce	1 mm	A A A A A A A A A A A A A A A A A A A	Silaire	Sale Time	0	5	16	X								
118/21	R	Ð	124 APT 120		Com	2111.												
VALUE II	no fipeop	Interesting	HILED OF FIGH STIMILITING HER WERE AND ADDRESS OF ADDRE		ecited laboratories.	Intersected as notice of this possibility. Any sub-contracted data will be clearly notated on	indissod s	ty. Any	Bub-cont	racted da	ta will be	s clearly	notated	on the a	inalvitcal	report.		



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

April 16, 2018

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

OrderNo.: 1804322

RE: Emma 8

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/5/2018 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 Analysis Laboratory, Inc.

Date Reported: 4/16/2018

CLIENT: Souder, Miller & Associates Project: Emma 8				Date: 4/3	/2018 10:37:00 AM	
Lab ID: 1804322-001	Matrix:	SOIL	Received	Date: 4/5	/2018 10:15:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	56	30	mg/Kg	20	4/10/2018 8:37:05 PM	37522
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/10/2018 9:13:49 PM	37482
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/10/2018 9:13:49 PM	37482
Surr: DNOP	75.0	70-130	%Rec	1	4/10/2018 9:13:49 PM	37482
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/9/2018 8:41:20 PM	37472
Surr: BFB	93.5	15-316	%Rec	1	4/9/2018 8:41:20 PM	37472
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	4/9/2018 8:41:20 PM	37472
Toluene	ND	0.047	mg/Kg	1	4/9/2018 8:41:20 PM	37472
Ethylbenzene	ND	0.047	mg/Kg	1	4/9/2018 8:41:20 PM	37472
Xylenes, Total	ND	0.094	mg/Kg	1	4/9/2018 8:41:20 PM	37472
Surr: 4-Bromofluorobenzene	86.8	80-120	%Rec	1	4/9/2018 8:41:20 PM	37472

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 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	is Labora	tory, Inc.		Date Reported: 4/16/2018
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW1
Project: Emma 8			Collection	Date: 4/3/2018 10:54:00 AM
Lab ID: 1804322-002	Matrix:	SOIL	Received	Date: 4/5/2018 10:15:00 AM
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	640	30	mg/Kg	20 4/10/2018 9:39:06 PM 37522

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 10
- 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.		Lab Order 1804322 Date Reported: 4/16/2018
CLIENT: Souder, Miller & Associates			Client Samp	le ID: BH3-10.5
Project: Emma 8			Collection	Date: 4/3/2018 11:11:00 AM
Lab ID: 1804322-003	Matrix:	SOIL	Received	Date: 4/5/2018 10:15:00 AM
Analyses	Result	PQL Qua	l Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	270	30	mg/Kg	20 4/10/2018 9:51:30 PM 37522

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 3 of 10

Analytical Report

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

Hall Environmental Analys	is Labora	tory, Inc.		Date Reported: 4/16/2018
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW3
Project: Emma 8			Collection	Date: 4/3/2018 11:33:00 AM
Lab ID: 1804322-004	Matrix:	SOIL	Received	Date: 4/5/2018 10:15:00 AM
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Batc
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	ND	30	mg/Kg	20 4/10/2018 10:03:54 PM 3752

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 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	is Laborat	tory, Inc.		Lab Order 1804322 Date Reported: 4/16/20	018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: BH2-9.5	
Project: Emma 8			Collection 1	Date: 4/3/2018 11:57:00 AM	
Lab ID: 1804322-005	Matrix: S	SOIL	Received	Date: 4/5/2018 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: MRA
Chloride	1800	75	mg/Kg	50 4/12/2018 3:32:48 PM	37522

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 10

Analytical Report

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

Analytica	l Report	
Lab Order 1	1804322	

Hall Environmental Analy	sis Labora	tory, Inc.		Date Reported: 4/16/2018
CLIENT: Souder, Miller & Associates	}		Client Samp	le ID: BH1-11
Project: Emma 8			Collection	Date: 4/3/2018 12:11:00 PM
Lab ID: 1804322-006	Matrix:	SOIL	Received	Date: 4/5/2018 10:15:00 AM
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	ND	30	mg/Kg	20 4/10/2018 10:28:43 PM 37522

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 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder, Emma 8	Miller & As 3	sociate	es							
Sample ID	MB-37522	SampT	ype: ml	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 37	522	F	RunNo: 50	0455				
Prep Date:	4/10/2018	Analysis Da	ate: 4/	10/2018	S	SeqNo: 16	636135	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-37522	SampTy	/pe: Ics	6	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 37	522	F	RunNo: 50	0455				
Prep Date:	4/10/2018	Analysis Da	ate: 4/	10/2018	5	SeqNo: 16	636136	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

Page 7 of 10

1804322 16-Apr-18

WO#:

Page 8 of 10

Client:Souder,Project:Emma 8	Miller & As 3	ssociate	es							
Sample ID LCS-37482	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 37	482	F	anNo: 5	0425				
Prep Date: 4/9/2018	Analysis D	ate: 4	10/2018	S	SeqNo: 1	635884	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	70	130			
Surr: DNOP	4.7		5.000		93.1	70	130			
Sample ID MB-37482	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 37	482	F	tunNo: 5	0425				
Prep Date: 4/9/2018	Analysis D	ate: 4/	10/2018	S	SeqNo: 1	635886	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

- * 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
- S % 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
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder, M Emma 8	Miller & A	ssociate	es							
Sample ID MB-	37472	SampT	ype: M	3LK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	6	Batch	h ID: 37	472	F	RunNo: 5	0404				
Prep Date: 4/6	6/2018	Analysis D	Date: 4	9/2018	S	SeqNo: 1	634431	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	anics (GRO)	ND	5.0								
Surr: BFB		890		1000		88.7	15	316			
Sample ID LCS	6-37472	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCS	s	Batch	h ID: 37	472	F	RunNo: 5	0404				
Prep Date: 4/6	5/2018	Analysis D	Date: 4/	9/2018	5	SeqNo: 1	634432	Units: mg/	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	anics (GRO)	29	5.0	25.00	0	115	75.9	131			
Surr: BFB		1100		1000		106	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 9 of 10

Client:	Souder, N	Ailler & A	ssociate	es							
Project:	Emma 8										
Sample ID MB-3	7472	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS		Batch	n ID: 37	472	F	RunNo: 5	0404				
Prep Date: 4/6/	2018	Analysis D	ate: 4/	9/2018	S	SeqNo: 1	634466	Units: mg/k	ζg		
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-Bromofluoro	benzene	0.86		1.000		85.9	80	120			
Sample ID LCS-	37472	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	6	Batch	n ID: 37	472	F	RunNo: 5	0404				
Prep Date: 4/6/	2018	Analysis D	ate: 4/	9/2018	S	SeqNo: 1	634467	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.025	1.000	0	94.3	77.3	128			
Toluene		0.93	0.050	1.000	0	92.8	79.2	125			
Ethylbenzene		0.91	0.050	1.000	0	91.2	80.7	127			
Xylenes, Total		2.8	0.10	3.000	0	93.0	81.6	129			
Surr: 4-Bromofluoro	benzene	0.91		1.000		90.6	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
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Page 10 of 10

WO#: 1804322 16-Apr-18

HALL Environmental Analysis Laboratory	TEL: 505-345-39	4901 Hav Ilbuquerque, N	vkins NE M 87109 S 45-4107	Sample Log	-In Check List
Client Name: SMA-CARLSBAD	Work Order Numb				RcptNo: 1
Received By: Erin Melendrez	4/5/2018 10:15:00 A	м	in	4	
Completed By: Ashley Gallegos Reviewed By:	4/5/2018 3:42:43 PN CY{05/18	۸ ب	labe	fleal k	24 ; See 04105/18
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🔽	No	Not Prese	nt 🗔
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the sampl	es?	Yes ⊻	No	N	A 🗌
4. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🔽	No	N	a 🗋
5. Sample(s) in proper container(s)?		Yes 🗹	No [
6. Sufficient sample volume for indicated te	st(s)?	Yes 🔽	No 🗉	_]	
7. Are samples (except VOA and ONG) pro	• •	Yes 🗹	No L		
8. Was preservative added to bottles?		Yes	No 🗖		
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials	.4
10. Were any sample containers received br	oken?	Yes	No S		d outosti.
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No [bottles check	
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjuste	d?
13. Is it clear what analyses were requested?)	Yes 🗹	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No	Checker	1 by:
<u>Special Handling (if applicable)</u>				1	
15. Was client notified of all discrepancies w	ith this order?	Yes	No _	N/	A 🔽
Person Notified:	Date: [
By Whom:	Via:	eMail	Phone F	ax 📑 In Person	
Regarding:					un na haite (
Client Instructions:				******	initial sec
16. Additional remarks:				·	
17. <u>Cooler Information</u> <u>Cooler No Temp ºC Condition</u> 1 0.1 Good	Seal Intact Seal No Yes	Seal Date	Signed By		

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