

March 21, 2018

#5E25868-BG22

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

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE INCIDENTS 2RP-4425 & 2RP-4531, AT THE JULIE #2 BATTERY, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher,

On behalf of EOG Resources (EOG), Souder, Miller & Associates (SMA) has prepared this WORK PLAN that describes the assessment, initial delineation and proposed remediation for a release associated with the Julie #2 Battery release. The site is in UNIT N, SECTION 8, TOWNSHIP 19S, RANGE 25E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and location of the site. Table 1 summarizes release information.

Table 1: Re	elease information and Site Ranking
Name	Julie #2 Battery
Company	EOG Resources
RP Number	2RP-4425; 2RP-4531
API Number	30-015-25905
Location	32.67018° -104.50915°
Estimated Date of Release	5/5/17 AM (2RP-4425) 12/10/17 PM (2RP-4531)
Date Reported to NMOCD	Non-Reportable (2RP-4425) 12/11/17 PM (2RP-4531)
Land Owner	Private
Reported To	Mike Bratcher
Source of Release	Check Valve
Released Material	Produced Water
Released Volume	5 bbl. (2RP-4425) 60 bbl. (2RP-4531)
Recovered Volume	2 bbl. (2RP-4425) 50 bbl. (2RP-4531)
Net Release	3 bbl. (2RP-4425) 10 bbl. (2RP-4531)
Nearest Waterway	0.42 Miles North of Four Mile Draw
Depth to Groundwater	Estimated to be greater than 100'
Nearest Domestic Water Source	Less than 1,000 feet (Four Mile Draw)
NMOCD Ranking	10
SMA Response Dates	11/20/17

1.0 Background

Table 2

In the case of both 2RP-4425 and 2RP-4531, the source of the releases was a malfunctioning check valve on the produced water line, which led to the release of produced water outside of the battery's northern berm. Following the release, a vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils. The release area had been excavated from 1 foot to 4 feet below ground surface (bgs) after the May 2017 release. On December 10, 2017 when the second release occurred, it stayed within the previously excavated area.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 0.43 miles North of Four Mile Draw, with an elevation of approximately 3,564 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. Eighteen wells are located within a three-mile radius of the site and there are no wells located within 1000 feet. After evaluating the site using aerial photography and topographic maps, depth to groundwater is estimated to be 110 feet 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

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

3.0 Release Characterization

On January 8, after receiving 811 clearance, SMA field personnel assessed the release area. The impacted area was approximately 50 feet by 70 feet. Three locations (L1-L3) were delineated to the extent possible with a backhoe. Soil samples were field-screened using an EC meter and collected to characterize and delineate the release.

On February 20 and 21, 2018, after receiving 811 clearance, SMA field personnel returned to further assess the release area. Soil samples were collected using an air rotary drilling rig, field-screened using an EC meter, and analyzed to characterize and delineate the release. A total of two boreholes were drilled, BH1 was advanced to 25 feet bgs, while BH2 was advanced to 60 ft bgs. BH1, located between L3 and L2, was advanced to evaluate lateral movement. BH2, which was located in the same area as L2, served to further characterize the vertical extent of that area. The areas of L1 and L3 were inaccessible due to existing infrastructure; therefore, further impacts to soil could not be further delineated.

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.

4.0 Soil Remediation Workplan

SMA will begin the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. SMA will continuously guide the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500). Excavation will occur to depths of 4 feet bgs throughout the entire affected area as shown in Figure 2. A plastic 40 mil liner will be placed in the open excavation at 4 feet, and a minimum of 6 sidewall samples will be collected and field screened for chloride impact. Contaminated soil will be removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

5.0 Scope and Limitations

The scope of our services consisted of the performing assessment sampling, verifying release stabilization, regulatory liaison, and preparing this work plan. Work will be performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

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Austin Weyant Project Scientist

Reviewed by:

on londing L

R. Jay Vanlandingham, R.G. Senior Geoscientist

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

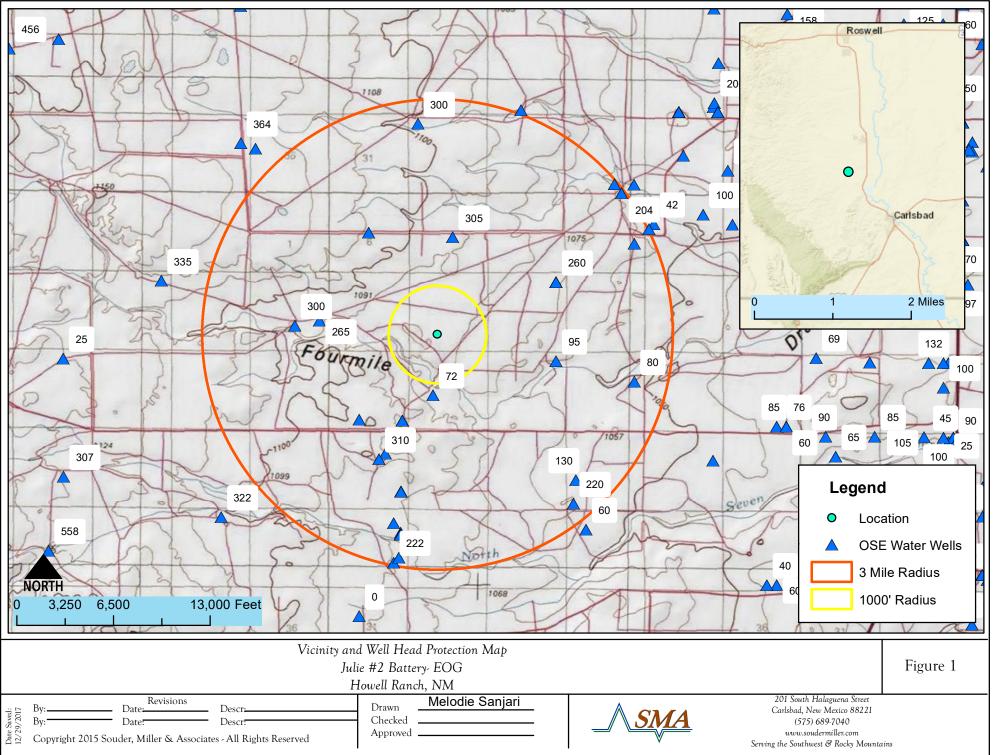


FIGURE 2 SITE AND SAMPLE LOCATION MAP



TABLE 3 SUMMARY SAMPLE RESULTS

Julie #2 Battery - Summary of Sample Results

Table 3.

Table 3.				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	CI-
Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens (ppm) New	Laboratory mg/Kg
NM	10CD RRAL's fo	r Site Ranking	g 10	50 mg/Kg	10 mg/Kg				1000 mg/Kg		
	1/8/2018	3	excavate	<0.095	<0.024	<4.8	110	73	183	16427	18000
	1/8/2018	5	in-situ							4347	6100
L1	1/8/2018	9	in-situ							4794	5300
	1/8/2018	13	in-situ							1590	1600
	1/8/2018	17	in-situ								1900
	1/8/2018	19	in-situ								930
	1/8/2018	1	excavate	<0.093	<0.023	<4.6	<9.8	<49	<49	17509	23000
	1/8/2018	3	excavate							14522	
	1/8/2018	5	in-situ								13000
L2	1/8/2018	7	in-situ								7900
	1/8/2018	11	in-situ							2637	3300
	1/8/2018	13	in-situ							1376	2200
	1/8/2018	15	in-situ							459	1000
	1/8/2018	1.5	excavate	<0.099	<0.025	<4.9	18	<50	18	10449	13000
	1/8/2018	3.5	excavate							8313	7400
	1/8/2018	5.5	in-situ							473	240
L3	1/8/2018	7.5	in-situ							1018	910
	1/8/2018	9.5	in-situ								2800
	1/8/2018	17.5	in-situ								1400
	1/8/2018	19.5	in-situ							2571	2000
	2/20/2018	15	in-situ								250
BH1	2/20/2018	20	in-situ								350
	2/20/2018	25	in-situ								130
	2/21/2018	Surface	excavate								28000
	2/21/2018	5	in-situ							6006	7800
	2/21/2018	10	in-situ								4100
	2/21/2018	15	in-situ								2900
	2/21/2018	20	in-situ							752	1000
BH2	2/21/2018	25	in-situ	<0.23	<0.023	<4.7	<9.3	<46	<62	<132	91
	2/21/2018	30	in-situ							<132	<30
	2/21/2018	35	in-situ							<132	<30
	2/21/2018	40	in-situ							<132	<30
	2/21/2018	50	in-situ							<132	<30
	2/21/2018	60	in-situ							<132	<30

orange line denotes liner placement

to be excavated

"--" = Not Analyzed

APPENDIX A FORM C141 INITIAL

							NM		ONSER	VATION	1
District I 1625 N. French District II	Dr., Hobbs,	NM 88240				f New Mex s and Natura			2 3 201		Form C-141 Revised August 8, 2011
811 S. First St., District III	Artesia, NM	88210						~ .			
1000 Rio Brazos District IV	s Road, Azte	c, NM 87410				ervation Div th St. Franc		RE		cordance v	riate District Office in with 19.15.29 NMAC.
1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505				Fe, NM 875					
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Name of Co EOG Y Res		с.		OGRID Nun 25575	ıber	Contact Robert Ashe	er	Ne	w forms	can be	found in the
Address						Telephone N	No.	New M	Mexico S	state We	ebsite in forms:
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Julie #2 Bat			<u></u>	Habia		Battery				2.01110	<u>incirii</u>
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Was Immedia			Yes 🗌	No 🛛 Not Re	equired	If YES, To			5/5/2017,	7 11 11	
By Whom?		ب				Date and H	lour			<u></u>	
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Date: May 23	·····			575-748-4217		2RP-	See M	Haci	hed		
* Attach Addi	tional Shee	ets If Necess	ary								2RP-4225

Operator/Responsible Party,

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in <u>ARTESIA</u> on or before <u>6/23/2017</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

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resource DEC 1 9 2017

Form C-141 Revised April 3, 2017

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 D 12

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

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

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	E-mail Address: chase_settle@eogresources	.com	Conditions of	of Approval:	0	Aunahad Da
	Date: December 19, 2017	Phone:575-748-4171	See	attache	d	Attached 12 JRP-453
*	Attach Additional Sheets If Necessary					· · · · · · · · · · · · · · · · · · ·

12/22/17AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/19/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP.453 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]

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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 POD suffix indicates the been replaced, 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 06418 ED 2 3 17 19S 25E 545925 3613710* 1124 120 72 48 1 460 305 155 RA 05331 FD 1 4 05 19S 25E 546308 3616955* 2143 RA 04426 CH 4 3 18 19S 25E 544412 3613201* 2291 715 RA 05900 ED 2 2 16 19S 25E 548442 3614424* 2452 185 95 90 12 19S 24E 3615225* 280 RA 03959 ED 2 4 543589 2466 545 265 RA 11654 POD1 FD 32 19 19S 25E 544959 3612514 🛑 2548 500 RA 05333 FD 2 2 09 19S 25E 548430 3616046* 2696 315 260 55 2718 ED 3 2 19 19S 25E 544825 3612390* 390 80 RA 04726 310 RA 06436 ED 3 1 4 12 19S 24E 543083 3615122* 2954 300 42 30 25E 3610884 🧧 RA 12222 POD1 ED 2 19S 545284 4015 RA 02909 ED 1 3 22 19S 25E 548864 3611989* 4017 188 130 58 3614015* 🎑 RA 05450 CH 4 2 15 19S 25E 550057 4115 204 80 124 RA 08986 1 3 3 22 19S 25E 3611507 320 220 ED 548825 4346 100 RA 04335 CH 32 18S 25E 545580 3619275* 🦲 4466 400 300 100 1 1 2 4 RA 04208 FD 03 19S 25E 550036 3616845* 🧾 4490 110 RA 03942 ED 3 2 4 30 19S 25E 545141 3610277* 🦲 4638 270 222 48 RA 04236 CH 3 3 1 02 19S 25E 550335 3617145* 🧲 4893 360 204 156 RA 03304 ED 3610973* 🎑 4922 70 1 27 19S 25E 549081 130 60 Average Depth to Water: 201 feet 60 feet Minimum Depth: Maximum Depth: 310 feet Record Count: 18 UTMNAD83 Radius Search (in meters): Easting (X): 546023.24 Northing (Y): 3614830.45 Radius: 5000

*UTM location was derived from PLSS - see Help

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

APPENDIX C LABORATORY ANALYTICAL REPORTS



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

January 22, 2018

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

OrderNo.: 1801498

RE: Julie 2 Battery

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 20 sample(s) on 1/10/2018 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: 1/22/2018

CLIENT: Souder, Miller & Associates		Client Sample ID: L1-3 Collection Date: 1/8/2018 9:30:00 AM								
Project: Julie 2 Battery										
Lab ID: 1801498-001	Matrix:	SOIL	Received	Date: 1/10	0/2018 9:25:00 AM					
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CJS				
Chloride	18000	1500	mg/Kg	1E	1/17/2018 10:06:08 AM	36058				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	TOM				
Diesel Range Organics (DRO)	110	9.6	mg/Kg	1	1/12/2018 12:57:23 PM	35974				
Motor Oil Range Organics (MRO)	73	48	mg/Kg	1	1/12/2018 12:57:23 PM	35974				
Surr: DNOP	100	70-130	%Rec	1	1/12/2018 12:57:23 PM	35974				
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/11/2018 7:02:59 PM	35957				
Surr: BFB	91.0	15-316	%Rec	1	1/11/2018 7:02:59 PM	35957				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	1/11/2018 7:02:59 PM	35957				
Benzene	ND	0.024	mg/Kg	1	1/11/2018 7:02:59 PM	35957				
Toluene	ND	0.048	mg/Kg	1	1/11/2018 7:02:59 PM	35957				
Ethylbenzene	ND	0.048	mg/Kg	1	1/11/2018 7:02:59 PM	35957				
Xylenes, Total	ND	0.095	mg/Kg	1	1/11/2018 7:02:59 PM	35957				
Surr: 4-Bromofluorobenzene	87.2	80-120	%Rec	1	1/11/2018 7:02:59 PM	35957				

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 1 of 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	Date Reported: 1/22/2018					
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L1-5		
Project: Julie 2 Battery			Collection 1	Date: 1/8/2018 8:58:00 AM		
Lab ID: 1801498-002	Matrix:	SOIL	Received	Received Date: 1/10/2018 9:25:00 AM		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS				Analy	st: CJS	
Chloride	6100	300	mg/Kg	200 1/17/2018 10:18:33 A	M 36058	

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 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Sampl	le ID: L1-9	
Project: Julie 2 Battery			Collection 1	Date: 1/8/2018 9:08:00 AM	
Lab ID: 1801498-003	Matrix:	SOIL	Received		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: CJS
Chloride	5300	300	mg/Kg	200 1/17/2018 10:30:58 4	AM 36058

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 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys		Lab Order 1801498 Date Reported: 1/22/2018			
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L1-13	
Project: Julie 2 Battery			Collection	Date: 1/8/2018 9:18:00 AM	
Lab ID: 1801498-004	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Bat	tch
EPA METHOD 300.0: ANIONS				Analyst: CJ	s
Chloride	1600	75	mg/Kg	50 1/17/2018 10:43:22 AM 360)58

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 4 of 24

Analytical Report

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

Analytical Report	
Lab Order 1801498	

Hall Environmental Analysis Laboratory, Inc.				Date Reported: 1/22/2018			
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L1-17			
Project: Julie 2 Battery			Collection	Date: 1/8/2018 9:36:00 AM			
Lab ID: 1801498-005	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM			
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Batc			
EPA METHOD 300.0: ANIONS				Analyst: CJS			
Chloride	1900	75	mg/Kg	50 1/17/2018 10:55:47 AM 3605			

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 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1801498
Data Damantady 1/22/2018

Hall Environmental Analysi	Date Reported: 1/22/2018					
CLIENT: Souder, Miller & Associates			Client Samp	e ID: L1-19		
Project: Julie 2 Battery			Collection	Date: 1/8/2018	9:47:00 AM	
Lab ID: 1801498-006	Matrix:	SOIL	Received	Date: 1/10/2018	3 9:25:00 AM	
Analyses	Result	PQL Qua	d Units	DF Date A	Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	930	30	mg/Kg	20 1/16/2	2018 8:10:26 PM	36058

Qualifiers:	
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- * 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 6 of 24 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/22/2018

CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L2-	1			
Project: Julie 2 Battery		Collection Date: 1/8/2018 9:55:00 AM						
Lab ID: 1801498-007	Matrix:	SOIL	Received	Date: 1/1	0/2018 9:25:00 AM			
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: CJS		
Chloride	23000	750	mg/Kg	500	1/18/2018 12:21:44 PM	36058		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analyst	TOM		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/12/2018 1:24:52 PM	35974		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/12/2018 1:24:52 PM	35974		
Surr: DNOP	99.4	70-130	%Rec	1	1/12/2018 1:24:52 PM	35974		
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/11/2018 8:58:40 PM	35957		
Surr: BFB	80.3	15-316	%Rec	1	1/11/2018 8:58:40 PM	35957		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	1/11/2018 8:58:40 PM	35957		
Benzene	ND	0.023	mg/Kg	1	1/11/2018 8:58:40 PM	35957		
Toluene	ND	0.046	mg/Kg	1	1/11/2018 8:58:40 PM	35957		
Ethylbenzene	ND	0.046	mg/Kg	1	1/11/2018 8:58:40 PM	35957		
Xylenes, Total	ND	0.093	mg/Kg	1	1/11/2018 8:58:40 PM	35957		
Surr: 4-Bromofluorobenzene	92.2	80-120	%Rec	1	1/11/2018 8:58:40 PM	35957		

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
- D Sample Different 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 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Samp	e ID: L2-5	
Project: Julie 2 Battery			Collection	Date: 1/8/2018 10:08:00 AM	
Lab ID: 1801498-008	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: CJS
Chloride	13000	750	mg/Kg	500 1/17/2018 11:20:37 A	M 36058

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 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	с.	Date Reported: 1/22/2018			
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L2-7	
Project: Julie 2 Battery			Collection	Date: 1/8/2018 10:10:00 AM	1
Lab ID: 1801498-009	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM	1
Analyses	Result	PQL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: CJS
Chloride	7900	750	mg/Kg	500 1/17/2018 11:33:02	AM 36058

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 9 of 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report	
Lab Order 1801498	

Hall Environmental Analysi	Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L2-11	
Project: Julie 2 Battery			Collection	Date: 1/8/2018 10:15:00 AM	
Lab ID: 1801498-010	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: CJS
Chloride	3300	150	mg/Kg	100 1/17/2018 11:45:27	AM 36058

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 24 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Analytical Report	
Lab Order 1801498	

Hall Environmental Analys	IC.	Date Reported: 1/22/2018			
CLIENT: Souder, Miller & Associates			Client Sampl	le ID: L2-13	
Project: Julie 2 Battery			Collection	Date: 1/8/2018 10:21:00 AM	
Lab ID: 1801498-011	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM	
Analyses	Result	PQL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: CJS
Chloride	2200	150	mg/Kg	100 1/17/2018 11:57:51	AM 36058

Qualifiers:	
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- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	Lab Order 1801498 Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L2-15	
Project: Julie 2 Battery			Collection 1	Date: 1/8/2018 10:30:00 AM	
Lab ID: 1801498-012	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS				Analyst: CJS	3
Chloride	1000	75	mg/Kg	50 1/17/2018 12:35:05 PM 3605	58

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 12 of 24

Analytical Report

- 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: 1/22/2018

CLIENT: Souder, Miller & Associates Project: Julie 2 Battery	Client Sample ID: L3-1.5 Collection Date: 1/8/2018 1:07:00 PM						
Lab ID: 1801498-013				Date: 1/10/2018 9:25:00 AM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CJS	
Chloride	13000	750	mg/Kg	500	1/17/2018 12:47:30 PM	36058	
EPA METHOD 8015M/D: DIESEL RANG		5			Analyst	: том	
Diesel Range Organics (DRO)	18	10	mg/Kg	1	1/12/2018 1:51:26 PM	35974	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/12/2018 1:51:26 PM	35974	
Surr: DNOP	101	70-130	%Rec	1	1/12/2018 1:51:26 PM	35974	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/11/2018 9:21:45 PM	35957	
Surr: BFB	84.8	15-316	%Rec	1	1/11/2018 9:21:45 PM	35957	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	1/11/2018 9:21:45 PM	35957	
Benzene	ND	0.025	mg/Kg	1	1/11/2018 9:21:45 PM	35957	
Toluene	ND	0.049	mg/Kg	1	1/11/2018 9:21:45 PM	35957	
Ethylbenzene	ND	0.049	mg/Kg	1	1/11/2018 9:21:45 PM	35957	
Xylenes, Total	ND	0.099	mg/Kg	1	1/11/2018 9:21:45 PM	35957	
Surr: 4-Bromofluorobenzene	91.0	80-120	%Rec	1	1/11/2018 9:21:45 PM	35957	

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 13 of 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1801498 Date Reported: 1/22/	
CLIENT: Souder, Miller & Associates Project: Julie 2 Battery			Client Samp	le ID: L3-3.5 Date: 1/8/2018 12:59:00 PM	
Lab ID: 1801498-014	Matrix:	SOIL		Date: 1/10/2018 9:25:00 AM	
Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	7400	750	mg/Kg	Anal <u>y</u> 500 1/17/2018 12:59:55 I	/st: CJS PM 36058

- * 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 14 of 24 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	Lab Order 1801498 Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L3-5.5	
Project: Julie 2 Battery			Collection	Date: 1/8/2018 1:02:00 PM	
Lab ID: 1801498-015	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed B	Batch
EPA METHOD 300.0: ANIONS				Analyst: C	CJS
Chloride	240	30	mg/Kg	20 1/16/2018 10:26:59 PM 3	86058

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 15 of 24

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	Lab Order 1801498 Date Reported: 1/22/2018					
CLIENT: Souder, Miller & Associates			Client Samp	le ID: L3-7.5		
Project: Julie 2 Battery			Collection	Date: 1/8/2018 1:05:00 PM		
Lab ID: 1801498-016	Matrix:	SOIL	Received Date: 1/10/2018 9:25:00 AM			
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Ba	atch	
EPA METHOD 300.0: ANIONS				Analyst: C.	JS	
Chloride	910	30	mg/Kg	20 1/16/2018 10:39:24 PM 36	6058	

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 16 of 24

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

Analytical	Report	
Lab Order 1	801498	

Hall Environmental Analysi	Date Reported: 1/22/2018					
CLIENT: Souder, Miller & Associates	Client Sample ID: L3-9.5					
Project: Julie 2 Battery			Collection	Date: 1/8/2018 1:07:00 PM		
Lab ID: 1801498-017	Matrix:	SOIL	Received Date: 1/10/2018 9:25:00 AM			
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS				Analy	st: CJS	
Chloride	2800	150	mg/Kg	100 1/17/2018 1:12:19 PM	A 36058	

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 17 of 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi		Lab Order 1801498 Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Samp	e ID: L3-13.5		
Project: Julie 2 Battery	Collection Date: 1/8/2018 1:22:00 PM					
Lab ID: 1801498-018	Matrix: SOIL Received D			Date: 1/10/2018 9:25:00 AM		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS				Analy	/st: CJS	
Chloride	4900	300	mg/Kg	200 1/17/2018 1:24:44 PI	M 36058	

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 18 of 24

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

Hall Environmental Analysi		Lab Order 1801498 Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L3-17.5		
Project: Julie 2 Battery	Collection Date: 1/8/2018 1:32:00 PM					
Lab ID: 1801498-019	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS				Analys	st: CJS	
Chloride	1400	75	mg/Kg	50 1/17/2018 1:37:08 PM	36058	

- * 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 19 of 24

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

Hall Environmental Analysi		Lab Order 1801498 Date Reported: 1/22/2018				
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L3-19.5		
Project: Julie 2 Battery			Collection 1	Date: 1/8/2018 1:47:00 PM		
Lab ID: 1801498-020	Matrix:	SOIL	Received	Date: 1/10/2018 9:25:00 AM		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS				Analyst	CJS	
Chloride	2000	75	mg/Kg	50 1/17/2018 1:49:33 PM	36058	

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 20 of 24

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

Batch ID: 36058

Analysis Date: 1/16/2018

Result

15

PQL

1.5

15.00

Client: Project:		r, Miller & As Battery	ssociate	es							
Sample ID	MB-36058	SampT	ype: ml	olk	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 36	058	F	RunNo: 4	8500				
Prep Date:	1/16/2018	Analysis D	ate: 1/	16/2018	S	SeqNo: 1	559132	Units: mg/k	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-36058	SampT	ype: Ics	3	Tes	tCode: E	PA Method	300.0: Anion	s		

SPK value SPK Ref Val %REC LowLimit

0

RunNo: 48500

98.7

SeqNo: 1559133

Units: mg/Kg

110

%RPD

RPDLimit

Qual

HighLimit

90

Qualifiers:

Client ID: LCSS

1/16/2018

Prep Date:

Analyte

Chloride

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

Page 21 of 24

WO#: 1801498

WO#:	1801498

Client:Souder,Project:Julie 2 B	Miller & A Battery	ssociate	es							
Sample ID LCS-35974	SampT	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	n ID: 35	974	F	unNo: 4	8391				
Prep Date: 1/11/2018	Analysis D	ate: 1/	12/2018	S	SeqNo: 1	555000	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	70	130			
Surr: DNOP	4.4		5.000		87.8	70	130			
Sample ID MB-35974	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch	n ID: 35	974	F	unNo: 4	8391				
Prep Date: 1/11/2018	Analysis D	ate: 1/	12/2018	S	SeqNo: 1	555001	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.2	70	130			

Qualifiers:

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

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Souder, Miller & Associates

Julie 2 Battery

nc.	22-Jan-18

Sample ID MB-35957	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 35	957	F	RunNo: 4	3383				
Prep Date: 1/10/2018	Analysis D	Date: 1/	11/2018	S	SeqNo: 1	554676	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	830		1000		83.5	15	316			
	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Sample ID LCS-35957	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Sample ID LCS-35957 Client ID: LCSS	•	ype: LC 1 ID: 35			tCode: El RunNo: 4		8015D: Gasc	oline Rang	e	
•	•	n ID: 35	957	F		3383	8015D: Gaso Units: mg/k	Ū	e	
Client ID: LCSS	Batch	n ID: 35	957 11/2018	F	RunNo: 4	3383		Ū	e RPDLimit	Qual
Client ID: LCSS Prep Date: 1/10/2018	Batch Analysis D	n ID: 35 Date: 1/	957 11/2018	F	RunNo: 4 SeqNo: 1	3383 554677	Units: mg/k	(g		Qual

Qualifiers:

Client:

Project:

- * 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 23 of 24

WO#: **1801498**

WO#:	1801498

	der, Miller & A e 2 Battery	Associate	es							
Sample ID MB-35957	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 35	957	R	unNo: 4	8383				
Prep Date: 1/10/2018	Analysis I	Date: 1/	11/2018	S	eqNo: 1	554702	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	80	120			
Sample ID LCS-35957	Samp	Туре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 35	957	RunNo: 48383						
Prep Date: 1/10/2018	Analysis [Date: 1/	11/2018	S	eqNo: 1	554703	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.84	0.10	1.000	0	84.0	70.1	121			
Benzene	0.96	0.025	1.000	0	96.1	77.3	128			
Toluene	0.98	0.050	1.000	0	98.3	79.2	125			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	99.9	81.6	129			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	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
- 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 24 of 24

	CONMENTAL Ysis Ratory	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	49(iquerq FAX;	1 Hawk ue, NM 505-34:	ins NE 87109 5-4107	Sar	nple Log-In Check List
Client Name:	SMA-CARLSBAD	Work Order Number:	180	1498			RcptNo: 1
Received By:	Isaiah Ortiz	1/10/2018 9:25:00 AM			I	0.)	z
Completed By: Reviewed By:	Sophia Campuzano ♪₽\$	1/10/2018 9:56:47 AM }//U//8			Sop	hu donje	
<u>Chain of Cus</u>	<u>tody</u>						
1. Is Chain of C	ustody complete?		Yes	\checkmark	N	o 🗌	Not Present
2. How was the	sample delivered?		<u>Cou</u>	<u>ier</u>			
<u>Log In</u> 3. Was an atterr	npt made to cool the samples?	?	Yes		N	•	
4. Were all samp	bles received at a temperature	e of ≥0° C to 6.0°C	Yes		N	o 🗌	
5. Sample(s) in p	proper container(s)?		Yes		N	•	
6. Sufficient sam	ple volume for indicated test(s)?	Yes		No	• 🗆	
7. Are samples (except VOA and ONG) proper	rly preserved?	Yes	\checkmark	No	b	
8. Was preservat	tive added to bottles?		Yes		No		NA 🗔
9. VOA vials hav	e zero headspace?		Yes		No	b	No VOA Vials 🗹
10. Were any san	nple containers received broke	en?	Yes		N	o 🔽	· · · · · · · · · · · · · · · · · · ·
	rk match bottle labels?		Yes	⊻	No	b 🗌	# of preserved bottles checked for pH:
	nncies on chain of custody) correctly identified on Chain of	Custodu?	Yes		No		(<2 or >12 unless noted) Adjusted?
	analyses were requested?	Gustody	Yes			, П	
14. Were all holdir	ng times able to be met? ustomer for authorization.)		Yes		No	• 🗆	Checked by:
	ing (if applicable)						
	tified of all discrepancies with	this order?	Yes		N	•	NA 🗹
Person	Notified:	Date:					· · · · · · · · · · · · · · · · · · ·
By Who	m:	Via:	eM	ail 🗌	Phone [] Fax	In Person
Regardi	ng:	ana ana amin'ny fanisana amin'ny fanisana amin'ny fanisana amin'ny fanisana amin'ny fanisana amin'ny fanisana a					And An address of the Contract of the Contract of Contract of Contract of Contract of Contract of Contract of C
Client Ir	structions:	an a	*********			3665-66-6-e-e-e-e-e-e-e-e-e-e-e-e-e-e-e-e	
16. Additional rer	narks:	····					
17. <u>Cooler Inform</u> Cooler No	Temp °C Condition S		eal D	ate	Signed	t By	1
[1	0.8 Good Ye	PS			•		

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			"ansbad.	Project Name:					•	WWW.	www.hallenvironmental.com	ironm	ental.	moo	5	7
Mailing Address:	vddress:			- Jul	K #2	Battens	128	4901	4901 Hawkins NE -	ns NE	- Alb	Ionbro	due, 1	Albuquerque, NM 87109	60	
				Project #:		1 .		Tel. 5	505-345-3975	5-397		Tax 5	05-34	Fax 505-345-4107		
Phone #:	-)					Ana	/sis R	Analysis Request	st		10.23
email or Fax#:	Fax#:			Project Manager:	iger.		_		1-	-	-	(¢C				-
QA/QC Package:	ackage: ard		Level 4 (Full Validation)	Auttin	tin						(0141	S'*Oc	PCB's			
Accreditation	ation			Sampler: H	nep (m	23	_		100		9.0.2	1 ^{'7} 01	280			_
D NELAP	٩	□ Other		On Ice:	Car Ves	O No			1.127.5			V'EC	8/8	(A	-	_
EDD (Type)	Type)			Sample Temperature: 0	perature: 0.3	+6.5/65 0.8			-	_		DN (999 B		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1801498	TM + XƏT8	TM + X3T8 82108 H9T	TPH (Metho	EDB (Wetho	PAH's (8310 RCRA 8 Me	⊖A) anoinA	8081 Pestic 808 (VO/)	ime2) 0728		
01/03 9	9:30	Seil 1	61-3	20%		100-	X	~	,	1		×	-			
1	5:58	1	61-5	1		- 00 -						X				
	9:08		1-13			-003						X	_			
	11.6		61-13			-004						×	_			
	7:30		$L_i - iJ$			~00 5						X				
	G:47		61-19			-006		_				×	_			_
0-	9.55		12-1			-00J	x	×				×	_			-
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				Project #:		0		Tel. 505-345-3975	345-39	10	x 505	505-345-4107	07	12	13
email or Fax#:	Fax#:			Project Manager:	iger:	84					(*(-
QA/QC Package	ackage: ard		Level 4 (Full Validation)	Art	Ju W	exant					- 108012151				
Accreditation	ation	□ Other		Sampler:	WP (M	ITS	0.0000000	AG / DS			Notes and		1.		
EDD (Type)	Type)			Sample Temperature:	perature: 0.3	Ť		ЧЭ)		slet	100	()			7.0
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	втех + МТ ВТЕХ + МТ	40168 H9T	EDB (Metho	PAH's (8310 PAH's (8310	Aniona (ار) 1808 Pestic	40V) 80858 -ime2) 0728			selddu8 riA
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Date T	Tme: R	Reinformed by	Hed by: Hedday: Received by:	Received by:		$\frac{ a }{ a } \sqrt{\frac{ a }{8}} \frac{ a }{246}$	Kemarks	s G	3g	2	A	2	10	06	



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 05, 2018

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

OrderNo.: 1802D00

RE: Julie Battery

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 14 sample(s) on 2/23/2018 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,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1802D00

Hall Environ	mental Analysis	s Laborat	ory, Inc.		Date Reported: 3/5/2	018
	ouder, Miller & Assoc ulie Battery	iates		L	ab Order: 1802D	000
Lab ID:	1802D00-001			Collection Date:	: 2/20/2018 2:35:00 PM	1
Client Sample ID:	BH1-15'			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	lyst: CJS
Chloride		250	30	mg/Kg	20 2/28/2018 6:36:35 H	PM 36779
Lab ID:	1802D00-002			Collection Date:	: 2/20/2018 2:40:00 PM	1
Client Sample ID:	BH1-20'			Matrix	: SOIL	
Analyses		Result	PQL Qual	l Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	lyst: CJS
Chloride		350	30	mg/Kg	20 2/28/2018 7:13:48 H	PM 36779
Lab ID:	1802D00-003			Collection Date:	: 2/20/2018 2:45:00 PM	1
Client Sample ID:	BH1-25'			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	lyst: CJS
Chloride		130	30	mg/Kg	20 2/28/2018 7:26:13	PM 36779
Lab ID:	1802D00-004			Collection Date:	: 2/21/2018 7:30:00 AM	M
Client Sample ID:	BH2-Surface			Matrix	: SOIL	
Analyses		Result	PQL Qual	l Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	lyst: MRA
Chloride		28000	1500	mg/Kg	1E 3/2/2018 12:51:42 F	PM 36779
Lab ID:	1802D00-005			Collection Date:	: 2/21/2018 8:26:00 AM	M
Client Sample ID:	BH2-5'			Matrix	: SOIL	
Analyses		Result	PQL Qual	l Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	lyst: MRA
Chloride		7800	1500	mg/Kg	1E 3/4/2018 4:28:51 P	M 36779

Hall Environmental Analysis Laboratory Inc

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
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 1 of 8
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1802D00

Hall Environ	mental Analysis	Laborat	ory, Inc.		Date Reported: 3/5/20)18
	Souder, Miller & Associ ulie Battery	ates			Lab Order: 1802D	00
Lab ID:	1802D00-006			Collection Da	ate: 2/21/2018 8:30:00 AM	1
Client Sample ID:	BH2-10'			Matu	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	4100	150	mg/Kg	Anal 100 3/2/2018 1:41:19 PM	yst: MRA / 36779
Lab ID:	1802D00-007			Collection Da	ate: 2/21/2018 8:40:00 AM	1
Client Sample ID:	BH2-15'			Mat	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Anal	yst: MRA
Chloride		2900	150	mg/Kg	100 3/2/2018 1:53:43 PM	1 36779
Lab ID:	1802D00-008			Collection Da	ate: 2/21/2018 8:51:00 AM	1
Client Sample ID:	BH2-20'			Mati	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Anal	yst: MRA
Chloride		1000	30	mg/Kg	20 3/2/2018 2:06:08 PM	A 36779

Hall Environmental Analysis Laboratory Inc

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
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 2 of 8
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1802D00

Date Reported: 3/5/2018

Hall Environ	nental Analysis	Laborato	ory, Inc.]	Date Reported: 3/5/2	2018	
	ouder, Miller & Associat ılie Battery	es		L	ab ()rder: 1802I	000	
Lab ID:	1802D00-009			Collection Date:	2/2	21/2018 9:01:00 A	М	
Client Sample ID:	BH2-25'			Matrix	SC	DIL		
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS					Ana	alyst:	MRA
Chloride		91	30	mg/Kg	20	3/2/2018 2:18:33 F	'M	36779
EPA METHOD 801	5M/D: DIESEL RANGE (ORGANICS				Ana	alyst:	том
Diesel Range Organ	nics (DRO)	ND	9.3	mg/Kg	1	2/27/2018 7:06:22	PM	36722
Motor Oil Range Org	ganics (MRO)	ND	46	mg/Kg	1	2/27/2018 7:06:22	PM	36722
Surr: DNOP		86.2	70-130	%Rec	1	2/27/2018 7:06:22	PM	36722
EPA METHOD 801	5D: GASOLINE RANGE					Ana	alyst:	NSB
Gasoline Range Org	anics (GRO)	ND	4.7	mg/Kg	1	2/26/2018 7:54:43	PM	36697
Surr: BFB		90.7	15-316	%Rec	1	2/26/2018 7:54:43	PM	36697
EPA METHOD 802	1B: VOLATILES					Ana	alyst:	NSB
Methyl tert-butyl eth	er (MTBE)	ND	0.094	mg/Kg	1	2/26/2018 7:54:43	PM	36697
Benzene		ND	0.023	mg/Kg	1	2/26/2018 7:54:43	PM	36697
Toluene		ND	0.047	mg/Kg	1	2/26/2018 7:54:43	PM	36697
Ethylbenzene		ND	0.047	mg/Kg	1	2/26/2018 7:54:43	PM	36697
Xylenes, Total		ND	0.094	mg/Kg	1	2/26/2018 7:54:43		36697
Surr: 4-Bromofluc	probenzene	89.2	80-120	%Rec	1	2/26/2018 7:54:43	PM	36697
Lab ID:	1802D00-010			Collection Date:	2/2	21/2018 9:09:00 A	М	
Client Sample ID:	BH2-30'			Matrix	SC	DIL		
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS					Ana	alyst:	MRA
Chloride		ND	30	mg/Kg	20	3/2/2018 2:30:58 P	M	36779
Lab ID:	1802D00-011			Collection Date:	2/2	21/2018 9:15:00 A	М	
Client Sample ID:	BH2-35'			Matrix	SC	DIL		
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS					Ana	alyst:	MRA
Chloride		ND	30	mg/Kg	20		-	36779

Hall Environmental Analysis Laboratory Inc.

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

- Qualifiers:
- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 3 of 8
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1802D00

Hall Environ	mental Analysis	Laborat	ory, Inc.		Date Reported: 3/5/2018
	Souder, Miller & Associa Iulie Battery	ates			Lab Order: 1802D00
Lab ID:	1802D00-012			Collection D	Date: 2/21/2018 9:20:00 AM
Client Sample ID:	BH2-40'			Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	ND	30	mg/Kg	Analyst: MRA 20 3/2/2018 2:55:46 PM 36779
Lab ID:	1802D00-013			Collection D	Date: 2/21/2018 9:36:00 AM
Client Sample ID:	BH2-50'			Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		ND	30	mg/Kg	20 3/2/2018 3:08:11 PM 36779
Lab ID:	1802D00-014			Collection D	Date: 2/21/2018 9:48:00 AM
Client Sample ID:	BH2-60'			Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		ND	30	mg/Kg	20 3/2/2018 4:59:53 PM 36779

Hall Environmental Analysis Laboratory Inc

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
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- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 4 of 8
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:		ler, Miller & Asso Battery	ociate	es							
Sample ID	MB-36779	SampTyp	e: m t	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch II	D: 36	779	F	RunNo: 4	9447				
Prep Date:	2/28/2018	Analysis Date	e: 2/	28/2018	S	SeqNo: 1	598355	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-36779	SampTyp	e: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch II	D: 36	779	F	RunNo: 4	9447				
Prep Date:	2/28/2018	Analysis Date	e: 2/	28/2018	S	SeqNo: 1	598356	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
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- 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 5 of 8

WO#:	1802D00
	05-Mar-18

Client: Souder, Project: Julie Ba	Miller & As attery	sociate	28							
Sample ID LCS-36722	SampTy	ype: LC	S	Test	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 36	722	R	RunNo: 49	9399				
Prep Date: 2/26/2018	Analysis Da	ate: 2/	27/2018	S	SeqNo: 1	595181	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.7	70	130			
Surr: DNOP	4.3		5.000		86.7	70	130			
Sample ID MB-36722	SampTy	ype: ME	BLK	Test	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 36	722	R	RunNo: 49	9399				
Client ID: PBS Prep Date: 2/26/2018	Batch Analysis Da				RunNo: 4 9 SeqNo: 1 9		Units: mg/k	ζg		
_			27/2018				Units: mg/k HighLimit	′g %RPD	RPDLimit	Qual
Prep Date: 2/26/2018	Analysis Da	ate: 2/	27/2018	S	SeqNo: 1	595182	Ū	0	RPDLimit	Qual
Prep Date: 2/26/2018 Analyte	Analysis Da Result	ate: 2/ PQL	27/2018	S	SeqNo: 1	595182	Ū	0	RPDLimit	Qual

- * 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
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 8

ND

5.0

Souder,

Julie Ba

, Miller & Associ attery	ates						
SampType:	MBLK	TestCo	de: EPA Method	l 8015D: Gaso	line Rang	e	
Batch ID:	36697	Runl	No: 49378				
Analysis Date:	2/26/2018	Seq	No: 1594725	Units: mg/K	g		
Result PQ	L SPK value	SPK Ref Val %	REC LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	1000		1000		101	15	316		
Sample ID LCS-36697	SampT	ype: LC	s	Test	Code: El	PA Method	8015D: Gaso	oline Rang	e
Client ID: LCSS	Batch	n ID: 36	697	R	unNo: 4	9379			
Prep Date: 2/23/2018	Analysis D	ate: 2/	26/2018	S	eqNo: 1	594780	Units: mg/k	۲g	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.2	75.9	131		
Surr: BFB	1000		1000		105	15	316		

Qualifiers:

Client:

Project:

Client ID:

Analyte

Sample ID MB-36697 PBS

Prep Date: 2/23/2018

Gasoline Range Organics (GRO)

- 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
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified
- Page 7 of 8

Qual

1802D0	WO#:
05-Mar-18	

Client: Souder Project: Julie B	r, Miller & A attery	ssociate	es							
Sample ID MB-36697	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 36	697	F	RunNo: 4	9378				
Prep Date: 2/23/2018	Analysis D	Date: 2/	26/2018	S	SeqNo: 1	594752	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			
Sample ID LCS-36697	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	n ID: 36	697	F	RunNo: 4	9378				
Prep Date: 2/23/2018	Analysis D	Date: 2/	26/2018	S	SeqNo: 1	594753	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.0	0.10	1.000	0	101	70.1	121			
Benzene	1.1	0.025	1.000	0	107	77.3	128			
Toluene	1.1	0.050	1.000	0	106	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	105	80.7	127			
Xylenes, Total	3.2	0.10	3.000	0	108	81.6	129			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- PQL Practical Quanitative Limit
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- P Sample pH Not In Range
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- Page 8 of 8

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-397	al Analysis Labora 4901 Hawkins buquerque, NM 87 75 FAX: 505-345-4 hallenvironmental.	ne 109 San 107	nple Log-In C	heck List
Client Name: SMA-CARLSBAD	Work Order Numbe	er: 1802D00		RcptNo:	1
Received By: Dennis Suazo Completed By: Ashley Gallegos	2/23/2018 9:35:00 A/ 2/23/2018 12:06:47 F		Danig	<i></i>	
	•	eled by:	Spe	02/23/18	
Chain of Custody			_		
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples'	2	Yes 🔽	No 🗌	NA 🗌	
4. Were all samples received at a temperature	e of ≥0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗔	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(\$)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🔽	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broke	en?	Yes 🗆	No 🔽		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	# of preserved bottles checked for pH: (<2 or	>12 unless noted)
12, Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:] eMail [] Ph	one 📋 Fax	In Person	
16. Additional remarks:				<u></u> <u></u> J	
17. <u>Cooler Information</u> Cooler No Temp °C Condition S 1 2.5 Good Ye		Seal Date S	Signed By		

-

HALL ENVIRONMENTAL ANALYSIS LABORATORY		-					(N	0110	N.	səldduð riA															0
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	1 0 .	it Datty	2		ager:	Al when	wer Ju	SAVES	nperature: 2	Preservative Type															N
Standard Project Name:		Vulu	Project #:		Project Manager	Ruch	Sampler:	On loe:-	Sample Temperature:	Container Type and #	902	`	*	402									Received by:	ANT	Received by:
MA - Carlord		l. Hal aquero	0			Level 4 (Full Validation)				Sample Request ID	841-15'	BH1-20'	841-25'	BH2- Our Face	RH2-5'	101-148	842-151	8142-201	RH2-55'	BH2-30'	BH2-35'	BH3- 90'	by:	.1	Dy:
Client UNA - Carl Shey		201				U		□ Other		Matrix	112	1	A	Seil 1									Relinquished by:	when	Remainship
MMA.		Mailing Address:		#	r Fax#:	QA/QC Package:	itation	AP	EDD (Type)	Time	2:35	2:40	2:45	08:2		S: 30	5: 8	8:51	10:6	60:6	3:15	9:20	Time:	1600	F
Client:		Mailing		Phone #:	email or Fax#	QA/QC Packa	Accreditation	D NELAP		Date	8 1/02/	-	>	21/12									Date:	81-22-2	Date:

Chain	-of-CL	Chain-of-Custody Record	Turn-Around Tim	ime:			1										
	1- Hr	SMA-Carisbad	Standard	K Rush	5 day				NA N	Ш× Ч		ARG	N OB	HALL ENVIRONMENTAL ANALYSTS LABORATORY	A L		
			Project Name:		1.1				ww.h	allenv	www.hallenvironmental.com	ental.c	mos	5	5	;	
Mailing Address:		201 S thelapune.	July	e Bay	ten		49011	4901 Hawkins NE	IS NE	- 1	Albuquerque, NM 87109	due. h	VM 87	109			
		2	Project #:		0		Tel. 5	Tel. 505-345-3975	5-397		Fax 505-345-4107	5-345	5-4107				
Phone #:					5					Anal	Analysis Request	sanba	st				
email or Fax#:			Project Manager:			-	1000	_					_		-		
QA/QC Package:		Level 4 (Full Validation)	Pha	sty a	beyant	1000			(514)	(0)40		5.804			-		
Accreditation	□ Other	La		Kes La	D No		2012/02/02	10211-0024		2 0 1 7 0		7909/	()			UN 2	(N. 8
EDD (Type)			Temper	ature: 7	5			2450 57						_		~ \/	(10
Date	Matrix	Sample Request ID	し 非	Preservative Type	HEAL NO.	TM + X3T8	TM + X3T8 88108 H9T	TPH (Metho	EDB (Metho	PAH's (8310 RCRA 8 Me	China (1990)	8081 Pestic 806B (VO/	-imə2) 0728			oolddi 9 ai A	Air Bubbles
2/21/18 9:34	Sm?	842-50'	fo2.		-013		-		_	-	-	-					1
14:3		BH2-60'	/		-014				-		×						
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122/18 192	Relinquist	D :10	Received by:	2	2/23/18 0935			2D	X	age Lot &	8		Q	60	0		1
If necessary.	samples subr	If necessary, samples submitted to Hall Environmental may be subcontracted to other secreties. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	poontracted to other Secredi	ted laboratories	s. This serves as notice of this	possibilit	y. Any s	ub-contr	acted da	ta will be	clearly n	otated o	in the an	alytical re	eport.		