

June 14, 2018

#5E26084-BG9

Lucid Energy Kerry Egan 326 W. Quay Artesia, NM 88210

# SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE ROADRUNNER GAS PLANT(2RP-4654), EDDY COUNTY, NEW MEXICO

Dear Mr. Egan:

Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, initial delineation and remediation for a release associated with the Roadrunner Gas Plant. The site is in SECTION 32, TOWNSHIP 23S, RANGE 28E, NMPM, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and location of the site. Table 1 summarizes release information.

Table 1: Rele	ease information and Site Ranking				
Name	Roadrunner Gas Plant				
Company	Lucid Energy Group				
Incident Number	2RP-4654				
API Number	fAB1806740738				
Location	32.266960, -104.116886				
Estimated Date of Release	March 4, 2018				
Date Reported to NMOCD	March 8, 2018				
Land Owner	Private				
Reported To	NM Oil Conservation Division (NMOCD)				
Source of Release	Drain Valve				
Released Material	Tri-ethylene Glycol				
Released Volume	1000 gallons (~24 bbls)				
Recovered Volume	0				
Net Release	1000 gallons (~24 bbls)				
Nearest Waterway	Carlsbad Irrigation District Canal is 1200 ft northeast of the location				
Depth to Groundwater	Estimated to be less than 50 feet				
Nearest Domestic Water Source	Greater than 1,000 feet				
NMOCD Ranking	20				
SMA Response Dates	March 8, 2018, April 24, 2018, May 22, 2018				

## 1.0 Background

Table 2

An open drain valve caused the Tri-ethylene Glycol (TEG) tank to fill and overflow causing the release of approximately 24 bbls of TEG. The release ran across the gravel pad of the facility impacting approximately 50 feet by 50 feet of surface area. The TEG had already been in circulation, and therefore was expected to contain potential hydrocarbon and chloride contamination.

## 2.0 Site Ranking and Land Jurisdiction

Loving is approximately one mile northeast of the release location. The elevation of the release site is approximately 3,129 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs). NMOSE data in the area has plenty of data points to support this determination.

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

	0 to 0	10 to 10	>10
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	20
50' to 99' = 10	
>100' = 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	20

### 3.0 Release Characterization

Immediately after the release, the gravel and approximately 3 inches of heavily impacted soils were scraped and hauled off to an NMOCD approved facility. On March 8, 2018, SMA field personnel assessed the release area. Three sample locations were augered by hand to a maximum depth of 1 foot bgs to characterize and delineate the release. Sample location L1 was collected from the point of release and is considered to be the most heavily impacted. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody

protocols to Hall Environmental Analysis Laboratory for analysis for BTEX by EPA Method 8021, TPH EPA Method 418.1 and chlorides EPA Method 300.0. Sample locations are depicted on Figure 2. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

Delineation samples indicated that contamination extended to less than one foot at L2, and beyond one foot in the areas of L1 and L3.

### 4.0 Soil Remediation

With approval from area utilities owners via 811, the site was excavated to 1.5 feet bgs around L1 and L3, and to 1 foot bgs at L2. On April 24, 2018 samples were collected from the excavation area at locations L1 and L3. Results from sample location L1 indicated contaminants below RRALs; however, location L3 results indicated TPH remained elevated above the RRAL, and further excavation was recommended. This location was further excavated approximately three inches. On May 22, 2018 SMA personnel resampled the location of L3. After final excavation, all samples locations are within NMOCD recommended remediation action levels (RRALs). No further action is recommended at this time. Contaminated soil was disposed of at an NMOCD approved facility.

### 5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, soil remediation, and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

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

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

histo Merant

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

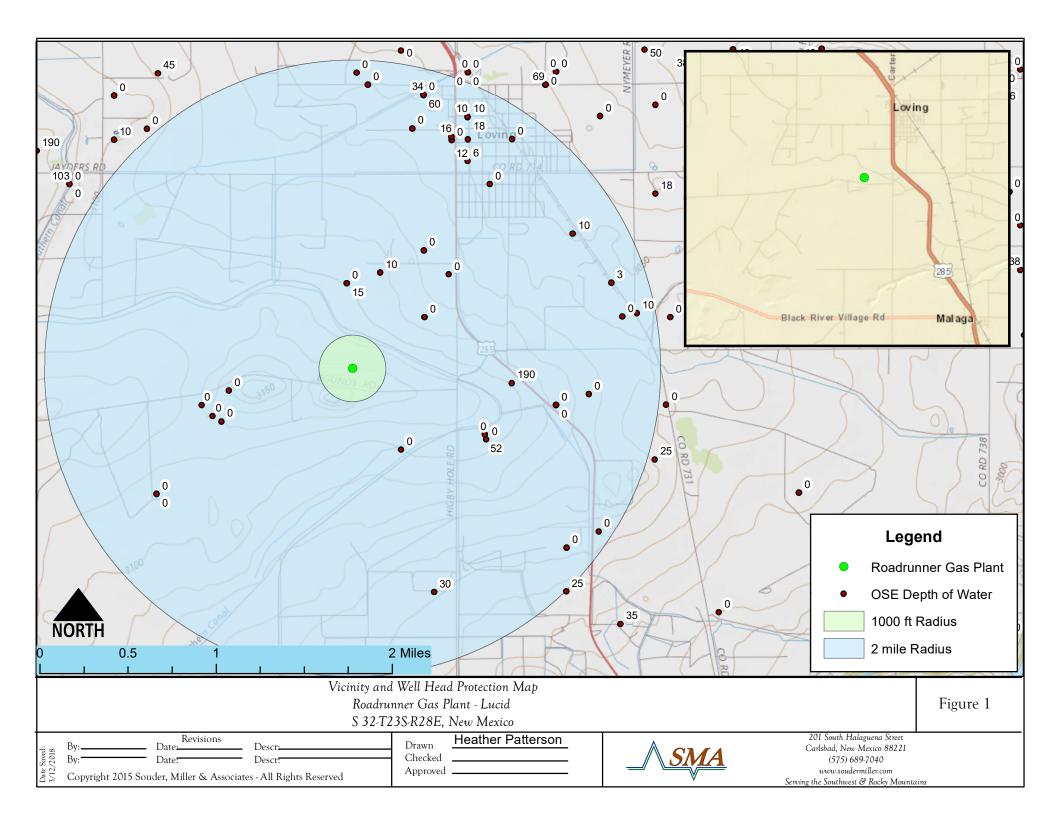
### Tables:

Table 3: Summary of Sample Results

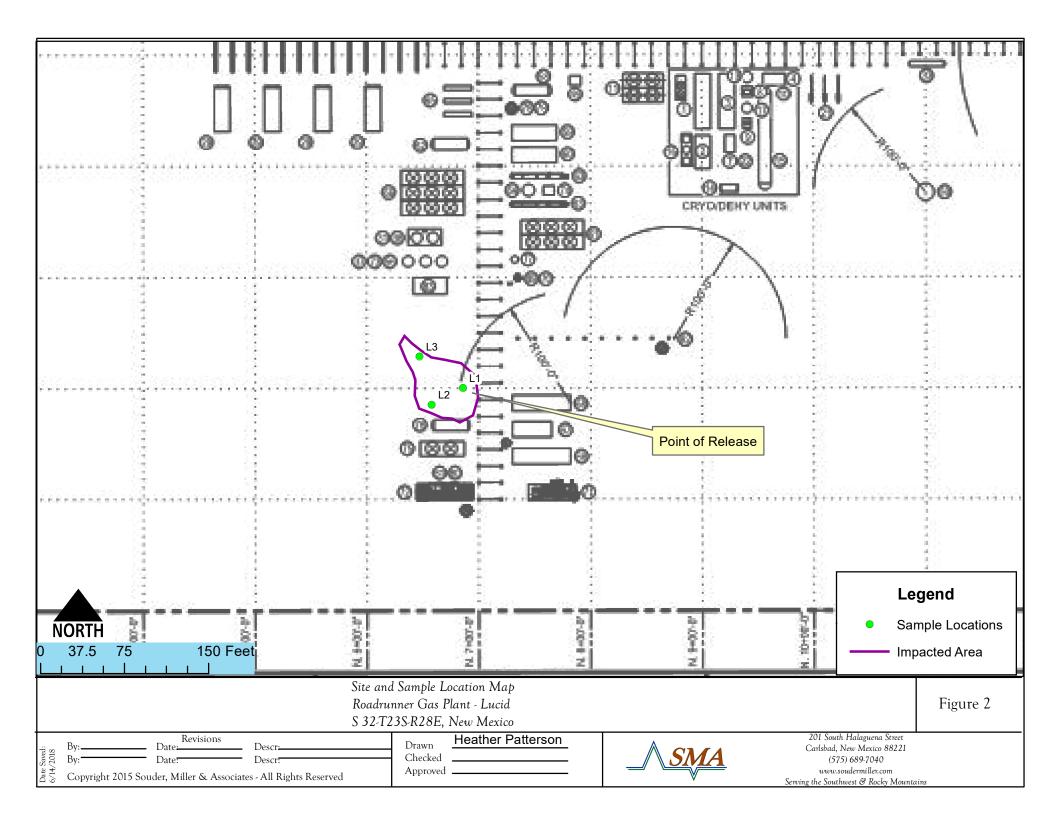
### Appendices:

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

## **Roadrunner Gas Plant**

Sample				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Action Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Laboratory mg/Kg
N	MOCD RRAL's fo	or Site Ranking	20	50 mg/Kg	10 mg/Kg				100 mg/Kg	
	3/8/2018	0.5	excavated	<0.23	<0.025	<5	780	<48	780	1400
L1	3/8/2018	1	excavated	<0.23	<0.023	<4.7	150	<48	150	500
	4/24/2018	1.5	in-situ			<4.7	36	<48	36	310
L2	3/8/2018	0.5	excavated	0.077	<0.025	<5	5600	<440	<b>5600</b>	110
LZ	3/8/2018	1	in-situ	<0.23	<0.024	<4.8	23	<49	23	110
	3/8/2018	0.5	excavated	<0.23	<0.024	<4.9	820	<50	820	92
L3	3/8/2018	1	excavated	<0.23	<0.023	<4.6	230	<46	230	120
LJ	4/24/2018	1.5	excavated			<4.7	200	<46	200	700
	5/22/2018	1.75	in-situ			<4.7	<10	<50	<64.7	99
SP	3/8/2018	spill pile	haul	0.46	0.04	1.6	16,000	4,900	20,902	300

Table 3.

"--" = Not Analyzed

# APPENDIX A FORM C141 INITIAL AND FINAL

**NM OIL CONSERVATION** 

ARTESIA DISTRICT

MAR 08 2018

API No.

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Oil Conservation Division 1220 South St. Francis Dr.

State of New Mexico

**Energy Minerals and Natural Resources** 

Santa Fe, NM 87505

#AB 806 740 738 Release Notificat	tion and Corrective Action		
#AB   806/740/738 Release Notificat NAB 1806/740932	OPERATOR	X Initial Report	Final Report
Name of Company: Lucid Energy Delaware #37/9/	Contact Kerry Egan		
Address 201 South Fourth Artesia, NM 88210	Telephone No. 575 513-8988		
Facility Name: Roadrunner Gas Plant	Facility Type: Gas Plant		

Surface Owner: Lucid Energy Delaware Mineral Owner

### LOCATION OF RELEASE

Unit Letter	Section 32	Township 23S	Range 28E	Feet from the	North/South Line	Feet from the	East/West Line	County EDDY							
		L													

Latitude 32.266960° Longitude -104.116886°

### NATURE OF RELEASE

	JOI NELLEADE	
Type of Release: Tri-ethylene Glycol	Volume of Release: 1000 gallons	Volume Recovered: None
Source of Release: Drain Valve left open on filter case.	Date and Hour of Occurrence: 3/4/18 6:00PM	Date and Hour of Discovery: 3/4/18 7:00PM
Was Immediate Notice Given?	If YES, To Whom?	
Yes No X Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	tercourse.
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The drain va	alve on a filter case was opened during	filter change out. The valve was not closed
prior to putting the filter case back into service. The TEG holding tank fi pump controlling the level in the tank has been set to automatically turn		as identified and closed. In response the
Describe Area Affected and Cleanup Action Taken.*		
The TEG affected gravel/soil in an area approximately 50' x 50'. The co		
approved facility. Soil sampling will dictate whether further excavation i	s needed. A work plan will be prepared	l and submitted.
I hereby certify that the information given above is true and complete to	the best of my knowledge and understa	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release		
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remedia		
or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	does not relieve the operator of respons	ability for compliance with any other
	OIL CONSERV	ATION DIVISION
AL S.		
Signature: Nory Eg		is the of
Printed Name: Kerry Egan	Approved by Environmental Specialis	Contraction ( ) Margardes
Timed Name. Kerry Egan	21 11 12	
Title: Environmental Compliance Coordinator	Approval Date: 3818	Expiration Date: NIA
E-mail Address: KEgan@lucid-energy.com	Conditions of Approval:	Attached Ano Licit
Date: 3/8/2018 Phone: 575 810-6021	SEE Uttac	the dri-4404
Attach Additional Sheets If Necessary		•
Construction for the second se	he New Mexico Oil	
Conservation Div	he New Mexico Oil vision Website for at	
updated form(s)	at:	
http://www.	•	

http://www.emnrd.state.nm.us/ OCD/ forms.html Thanking

Thank you

Operator/Responsible Party,

The OCD has received the form C-141 you provided on <u>3/8/2018</u> regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 3/8/2018 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>4/8/2018</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; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

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

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

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

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

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

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

ccordance	with .	19.15.29	NMAC.
	ccordance	ccordance with	ccordance with 19.15.29

	Release Notification and Corrective Action												
						<b>OPERATOR</b> Initial Report I Final						Final Report	
Name of C	ompany Li	icid Energy	Delaware	;		Contact Kerry Egan							
				ad NM 88220		Telephone No. 575-513-8988							
Facility Na	me Roadr	unner Gas Pl	ant			Facility Typ	e Gas Plant						
Surface Ow	ner Lucio	d Energy De	laware	Mineral C	Owner				API No	).			
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	Section 32	Township 23S	Range 28E	Feet from the	North	/South Line	Feet from the	East/W	est Line	County Eddy			
			Latitud	e_32.26696	Lon	gitude10	4.116886	NAD8	33				
				NAT	URE	OF REL	EASE						
Type of Rele	ase tri-ethy	lene glycol				Volume of	Release 1000 gal	lons	Volume F	Recovered n	one		
Source of Re	lease Drain	valve left op	en on filte	er case		Date and H 3/4/2018 6	our of Occurrenc		Date and 7PM	Hour of Dis	covery	3/4/2018	
Was Immedi	ate Notice (	Given?				If YES, To			/1 11				
			Yes	No 🛛 Not Re	equired								
By Whom?						Date and H							
Was a Water	course Reac		Yes 🛛	No		If YES, Volume Impacting the Watercourse.							
If a Watercou	urse was Im	pacted, Descri											
The drain val holding tank automatically Describe Are The TEG affe approved fact	ve on a filte filled and o v turn prever a Affected a ected gravel ility. Soil sa fy that the in	verflowed bef nting further o and Cleanup A /soil in an area mpling dictate nformation gi	ened durin ore the valverflow. Action Tak a approxim ed whether ven above	ng filter change ou lve was identified en.* nately 50' x 50'. ' r further excavation is true and comp	The con on. See	taminated ma submitted clos	knowledge and u	rapped up	he level in p and dispo	the tank has osed of at ar	NMO	et to CD les and	
public health should their c	or the envir operations had a ment. In ad	onment. The ave failed to a ddition, NMO	acceptanc dequately CD accept	e of a C-141 repo investigate and re	rt by the	e NMOCD ma e contaminatio	d perform correct irked as "Final Re on that pose a thre the operator of r	eport" do eat to gro	es not reli-	eve the oper , surface wa	ator of ter, hun	liability nan health	
Signature:	0.	4					OIL CONS	SERVA	ATION	DIVISIO	N		
Printed Name		an				Approved by	Environmental Sp	becialist:					
Title: Enviro	nmental Co	mpliance Coo	rdinator			Approval Date	2:	E	xpiration I	Date:			
E-mail Addre	ss: KEgan(	@lucid-energy	r.com	<u></u>	•	Conditions of	Approval:			Attached			
Date: 6/14	12018		Phone: 57	75-810-6021									

\* Attach Additional Sheets If Necessary

2RP-4654

# 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 C 01648 С ED 2 3 29 23S 28E 583667 3571184\* 778 65 15 50 С 260 C 02037 ED 2 3 29 23S 28E 583667 3571184\* 778 C 00108 CUB ED 1 29 23S 28E 583974 3571285\* 956 152 10 142 1 4 C 04037 POD1 С ED 3 2 31 23S 28E 582576 3569872 1145 99 60 39 4 С 22 21S 3569812 C 03706 POD1 ED 3 4 4 27E 584939 1477 200 С C 03831 POD1 ED 3 33 23S 28E 584939 3569812 🚺 300 52 4 1 1477 248 CUB C 04085 POD1 ED 4 1 31 23S 28E 582039 3570027 1594 250 200 50 1 С ED 2 33 23S 28E 585182 3570283\* 1599 225 190 35 C 00481 3 1 C 00519 С ED 2 1 1 28 23S 28E 584970 3572100\* 2183 250 С C 01731 ED 4 2 05 24S 28E 584483 3568367\* 2230 80 30 50 C 00539 С ED 3 3 3 21 23S 28E 584767 3572308\* 2234 28 6 22 C 03542 POD2 CUB ED 2 4 4 20 23S 28E 584620 3572497 2328 30 CUB 20 3572530 22 C 03542 POD1 ED 2 4 4 23S 28E 584615 2356 16 6 C 00650 С ED 3 3 21 23S 28E 584767 3572508\* 🧲 2407 32 20 1 12 CUB 585730 ED 2 3 2 28 23S 28E 3571652 2476 162 10 152 C 01472 С ED 3 21 23S 28E 3572714\* 🦲 2587 35 25 C 00577 3 1 584764 10 С C 00578 ED 3 1 3 21 23S 28E 584764 3572714\* 2587 28 18 10 С 23S C 00643 ED 3 1 3 21 28E 584764 3572714\* 2587 76 10 66 C 00911 POD2 С ED 2 20 23S 28E 584359 3572911\* 2617 69 35 1 4 34 С C 00911 POD3 ED 24 20 23S 28E 584359 3572911\* 2617 218 60 158 1 С 28 3571205\* 🧲 C 01938 ED 2 4 23S 28E 586085 2620 80 3 77 0 C 00312 ED 3 3 1 20 23S 28E 583140 3573106\* 🧲 2733 230 70 160 С 3 3 27 23S C 03732 POD1 ED 28E 586321 3570929 2782 171 10 161 1 C 01477 CUB ED 1 33 19 23S 28E 581532 3572484\* 2920 127 10 117 С C 02306 ED 3 2 04 24S 28E 585690 3568382\* 2920 75 25 50 2 3 2 25 23S 27E C 00010 CLW191724 0 ED 580926 3571666\* 2943 259

\*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)		· ·					2=NE 3 st to lare	a=SW 4=SE gest) (N∕	) AD83 UTM in me	eters)	(	In feet)	
	POD		~	~	~								-	
POD Number	Sub- Code basin (	Count	-	Q 16	-	Sec	Tws	Rng	х	Y	Distance	-	-	Water Column
C 00544	С	ED		3				28E	584762	3573120* 🌍	2953	27		
<u>C 02848</u>	CUB	ED	3	3	1	21	23S	28E	584762	3573120* 🌍	2953	130		
<u>C 01244</u>	С	ED		4	4	06	24S	28E	582860	3567543* 🌍	2957	109	70	39
<u>C 00010</u>	CUB	ED	1	2	2	25	23S	27E	581129	3572075* 🌍	2969	250	103	147
C 00010 CLW191759	0	ED	1	2	2	25	23S	27E	581129	3572075* 🌍	2969	259		
C 00010 ENLGD	CUB	ED	1	2	2	25	23S	27E	581129	3572075* 🌍	2969	259		
										Avera	ge Depth to	Water:	44	feet
											Minimum	Depth:	3	feet
											Maximum	Depth:	200	feet
Record Count: 32														

UTMNAD83 Radius Search (in meters):

Easting (X): 583587.63

Northing (Y): 3570409.58

Radius: 3000

\*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>

March 26, 2018

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

OrderNo.: 1803726

RE: Road Runner TEG

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

Date Reported: 3/26/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: L1-0.5 **Project:** Road Runner TEG Collection Date: 3/8/2018 12:22:00 PM Lab ID: 1803726-001 Matrix: SOIL Received Date: 3/13/2018 9:40:00 AM Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 3/21/2018 5:24:07 AM Chloride 1400 75 mg/Kg 37082 50 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM **Diesel Range Organics (DRO)** 780 mg/Kg 3/15/2018 7:40:01 PM 37032 9.6 1 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/15/2018 7:40:01 PM 37032 Surr: DNOP 109 70-130 %Rec 1 3/15/2018 7:40:01 PM 37032 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/15/2018 9:52:04 AM 37021 Surr: BFB 94.0 3/15/2018 9:52:04 AM 15-316 %Rec 1 37021 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Methyl tert-butyl ether (MTBE) ND 0.10 mg/Kg 1 3/15/2018 9:52:04 AM 37021 Benzene ND mg/Kg 3/15/2018 9:52:04 AM 37021 0.025 1 Toluene ND 0.050 mg/Kg 3/15/2018 9:52:04 AM 37021 1 Ethylbenzene ND 0.050 mg/Kg 1 3/15/2018 9:52:04 AM 37021 Xylenes, Total ND 0.10 mg/Kg 3/15/2018 9:52:04 AM 37021 1 Surr: 4-Bromofluorobenzene 88.4 80-120 %Rec 1 3/15/2018 9:52:04 AM 37021

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 13
- 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: 3/26/2018 Client Sample ID: L1-1

Collection Date: 3/8/2018 12:30:00 PM

Matrix: SOIL Received Date: 3/13/2018 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	500	30	mg/Kg	20	3/17/2018 7:10:46 PM	37082
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS	6			Analys	t: TOM
Diesel Range Organics (DRO)	150	9.6	mg/Kg	1	3/22/2018 3:49:29 PM	37160
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/22/2018 3:49:29 PM	37160
Surr: DNOP	98.4	70-130	%Rec	1	3/22/2018 3:49:29 PM	37160
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/15/2018 11:02:12 AM	/ 37021
Surr: BFB	89.4	15-316	%Rec	1	3/15/2018 11:02:12 AN	/ 37021
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	3/15/2018 11:02:12 AM	/ 37021
Benzene	ND	0.023	mg/Kg	1	3/15/2018 11:02:12 AM	/ 37021
Toluene	ND	0.047	mg/Kg	1	3/15/2018 11:02:12 AM	/ 37021
Ethylbenzene	ND	0.047	mg/Kg	1	3/15/2018 11:02:12 AN	/ 37021
Xylenes, Total	ND	0.094	mg/Kg	1	3/15/2018 11:02:12 AN	/ 37021
Surr: 4-Bromofluorobenzene	84.3	80-120	%Rec	1	3/15/2018 11:02:12 AN	/ 37021

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

\*

- 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

**CLIENT:** Souder, Miller & Associates

1803726-002

Road Runner TEG

**Project:** 

Lab ID:

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

Date Reported: 3/26/2018

3/15/2018 12:12:51 PM 37021

3/15/2018 12:12:51 PM 37021

3/15/2018 12:12:51 PM 37021

CLIENT:Souder, Miller & AssociatesProject:Road Runner TEGLab ID:1803726-003	Matrix: S	OIL	C		<b>Date:</b> 3/8	-0.5 3/2018 12:39:00 PM 3/2018 9:40:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	110	30		mg/Kg	20	3/17/2018 7:48:00 PM	37082
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	том
Diesel Range Organics (DRO)	5600	89		mg/Kg	10	3/23/2018 11:45:58 PM	37160
Motor Oil Range Organics (MRO)	ND	440		mg/Kg	10	3/23/2018 11:45:58 PM	37160
Surr: DNOP	0	70-130	S	%Rec	10	3/23/2018 11:45:58 PM	37160
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/15/2018 12:12:51 PM	37021
Surr: BFB	89.4	15-316		%Rec	1	3/15/2018 12:12:51 PM	37021
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	3/15/2018 12:12:51 PM	37021
Benzene	ND	0.025		mg/Kg	1	3/15/2018 12:12:51 PM	37021
Toluene	0.077	0.050		mg/Kg	1	3/15/2018 12:12:51 PM	37021

0.050

0.099

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

ND

ND

85.7

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

Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- \* 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

Hall Environmental Analysis Laboratory, Inc.

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

### Date Reported: 3/26/2018

CLIENT:Souder, Miller & AssociatesProject:Road Runner TEGLab ID:1803726-004	Matrix:			<b>Date:</b> 3/8	-1 /2018 12:45:00 PM 3/2018 9:40:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	110	30	mg/Kg	20	3/17/2018 8:00:25 PM	37082
EPA METHOD 8015M/D: DIESEL RANGE		s			Analyst	ТОМ
Diesel Range Organics (DRO)	23	9.8	mg/Kg	1	3/22/2018 4:38:22 PM	37160
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/22/2018 4:38:22 PM	37160
Surr: DNOP	99.0	70-130	%Rec	1	3/22/2018 4:38:22 PM	37160
EPA METHOD 8015D: GASOLINE RANG	ε				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/15/2018 12:36:16 PM	37021
Surr: BFB	89.0	15-316	%Rec	1	3/15/2018 12:36:16 PM	37021
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	3/15/2018 12:36:16 PM	37021
Benzene	ND	0.024	mg/Kg	1	3/15/2018 12:36:16 PM	37021
Toluene	ND	0.048	mg/Kg	1	3/15/2018 12:36:16 PM	37021
Ethylbenzene	ND	0.048	mg/Kg	1	3/15/2018 12:36:16 PM	37021
Xylenes, Total	ND	0.096	mg/Kg	1	3/15/2018 12:36:16 PM	37021
Surr: 4-Bromofluorobenzene	84.6	80-120	%Rec	1	3/15/2018 12:36:16 PM	37021

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

Date Reported: 3/26/2018

3/15/2018 12:59:33 PM 37021

CLIENT: Souder, Miller & Associates Project: Road Runner TEG			Client Sampl		-0.5 //2018 12:58:00 PM			
Lab ID:         1803726-005	Matrix:	SOIL		Received Date: 3/13/2018 9:40:00 AM				
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	92	30	mg/Kg	20	3/17/2018 8:12:50 PM	37082		
EPA METHOD 8015M/D: DIESEL RANG		6			Analyst	TOM		
Diesel Range Organics (DRO)	820	10	mg/Kg	1	3/22/2018 5:02:51 PM	37160		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/22/2018 5:02:51 PM	37160		
Surr: DNOP	97.7	70-130	%Rec	1	3/22/2018 5:02:51 PM	37160		
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/15/2018 12:59:33 PM	37021		
Surr: BFB	90.8	15-316	%Rec	1	3/15/2018 12:59:33 PM	37021		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	3/15/2018 12:59:33 PM	37021		
Benzene	ND	0.024	mg/Kg	1	3/15/2018 12:59:33 PM	37021		
Toluene	ND	0.049	mg/Kg	1	3/15/2018 12:59:33 PM	37021		
Ethylbenzene	ND	0.049	mg/Kg	1	3/15/2018 12:59:33 PM	37021		
Xylenes, Total	ND	0.097	mg/Kg	1	3/15/2018 12:59:33 PM	37021		

80-120

%Rec

1

86.6

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

Qualifiers:

Surr: 4-Bromofluorobenzene

\* 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 5 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/26/2018

Analyst: NSB

37021

37021

37021

37021

37021

37021

3/15/2018 1:22:49 PM

<b>CLIENT:</b> Souder, Miller & Associates <b>Project:</b> Road Runner TEG <b>Lab ID:</b> 1803726-006	Matrix:	SOIL		<b>Date:</b> 3/8	-1 3/2018 1:00:00 PM 3/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	120	30	mg/Kg	20	3/17/2018 8:50:05 PM	37082
EPA METHOD 8015M/D: DIESEL RANG		6			Analyst	: TOM
Diesel Range Organics (DRO)	230	9.2	mg/Kg	1	3/22/2018 5:27:24 PM	37160
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/22/2018 5:27:24 PM	37160
Surr: DNOP	92.5	70-130	%Rec	1	3/22/2018 5:27:24 PM	37160
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/15/2018 1:22:49 PM	37021
Surr: BFB	89.3	15-316	%Rec	1	3/15/2018 1:22:49 PM	37021

0.093

0.023

0.046

0.046

0.093

80-120

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

ND

ND

ND

ND

ND

84.9

### Hall Environmental Analysis Laboratory, Inc.

**EPA METHOD 8021B: VOLATILES** 

Methyl tert-butyl ether (MTBE)

Surr: 4-Bromofluorobenzene

Benzene

Toluene

Ethylbenzene

Xylenes, Total

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

Date Reported: 3/26/2018

#### **CLIENT:** Souder, Miller & Associates Client Sample ID: SP **Project:** Road Runner TEG Collection Date: 3/8/2018 1:05:00 PM Lab ID: 1803726-007 Matrix: SOIL Received Date: 3/13/2018 9:40:00 AM Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 20 3/17/2018 9:02:29 PM 37082 Chloride 300 30 mg/Kg EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Hall Environmental Analysis Laboratory, Inc.

#### Analyst: TOM **Diesel Range Organics (DRO)** 16000 mg/Kg 100 3/16/2018 1:59:33 PM 37032 980 mg/Kg Motor Oil Range Organics (MRO) ND 4900 100 3/16/2018 1:59:33 PM 37032 Surr: DNOP 0 70-130 S %Rec 100 3/16/2018 1:59:33 PM 37032 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 3/15/2018 1:46:04 PM 37021 Surr: BFB 88.6 3/15/2018 1:46:04 PM 15-316 %Rec 1 37021 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Methyl tert-butyl ether (MTBE) ND 0.095 mg/Kg 1 3/15/2018 1:46:04 PM 37021 Benzene mg/Kg 3/15/2018 1:46:04 PM 37021 0.040 0.024 1 Toluene 0.26 0.047 mg/Kg 3/15/2018 1:46:04 PM 37021 1 Ethylbenzene ND 0.047 mg/Kg 1 3/15/2018 1:46:04 PM 37021 Xylenes, Total 0.14 0.095 mg/Kg 3/15/2018 1:46:04 PM 37021 1

80-120

%Rec

1

3/15/2018 1:46:04 PM

37021

83.4

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

Qualifiers:

Surr: 4-Bromofluorobenzene

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

Client: Project:		er, Miller & Ass Runner TEG	ociate	S							
Sample ID	MB-37082	SampTyp	e: <b>mb</b>	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 37	082	F	RunNo: 4	9884				
Prep Date:	3/17/2018	Analysis Dat	e: <b>3/</b>	17/2018	5	SeqNo: 1	614578	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-37082	SampTyp	e: Ics		Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	D: 37	082	F	RunNo: 4	9884				
Prep Date:	3/17/2018	Analysis Dat	e: <b>3/</b>	17/2018	S	SeqNo: 1	614579	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.5	90	110			

#### Qualifiers:

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

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Client: Project:	Souder, N Road Rur	Iiller & As mer TEG	sociate	28							
Client ID:			ID: <b>37</b>	032	F	RunNo: 4	9816	8015M/D: Die	Ū	e Organics	
Prep Date:	3/14/2018	Analysis Da	ate: 3/	15/2018		SeqNo: 1	612817	Units: <b>mg/K</b>	g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C Surr: DNOP	Organics (DRO)	900 4.9	9.7	48.26 4.826	776.8	253 102	55.8 70	125 130			S
Sample ID	1803726-001AMSI	SampTy	/pe: <b>M</b> \$	SD	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	L1-0.5	Batch	ID: 37	032	F	RunNo: 4	9816				
Prep Date:	3/14/2018	Analysis Da	ate: 3/	15/2018	S	SeqNo: 1	612818	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	860	10	49.80	776.8	164	55.8	125	4.64	20	S
Surr: DNOP		5.2		4.980		104	70	130	0	0	
Sample ID	LCS-37032	SampTy	vpe: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 37	032	F	RunNo: 4	9816				
Prep Date:	3/14/2018	Analysis Da	ate: 3/	15/2018	5	SeqNo: 1	612829	Units: <b>mg/K</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	52	10	50.00	0	104	70	130			
Surr: DNOP		5.4		5.000		107	70	130			
Sample ID	MB-37032	SampTy	vpe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 37	032	F	RunNo: 4	9816				
Prep Date:	3/14/2018	Analysis Da	ate: 3/	15/2018	S	SeqNo: 1	612830	Units: <b>mg/K</b>	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
Motor Oil Rang Surr: DNOP	ge Organics (MRO)	ND	50	10.00		107	70	130			
Sull. DNOP		11		10.00		107	70	130			
Sample ID	MB-37128	SampTy	vpe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 37	128	F	RunNo: 4	9989				
Prep Date:	3/20/2018	Analysis Da	ate: 3/	22/2018	ç	SeqNo: 1	618593	Units: %Ree	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.1		10.00		90.9	70	130			
Sample ID	LCS-37128	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 37	128	F	RunNo: 4	9989				
Prep Date:	3/20/2018	Analysis Da	ate: 3/	22/2018	S	SeqNo: 1	618637	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val			HighLimit	%RPD	RPDLimit	Qual
<b>,</b>						-		<b>U</b>			

### **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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WO#: **1803726** 26-Mar-18

	r, Miller & Associates Runner TEG	
7128	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
	Batch ID: 37128	RunNo: <b>49989</b>
2018	Analysis Date: 3/22/2018	SeqNo: 1618637 Units: %Rec

Prep Date: 3/20/2018	Analysis Date:	3/22/2018	SeqNo:	1618637	Units: %Rec			
Analyte	Result P	QL SPK value	SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5	5.000	90.8	70	130			
Sample ID LCS-37160	SampType	LCS	TestCode:	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: LCSS	Batch ID:	37160	RunNo:	49989				
Prep Date: 3/21/2018	Analysis Date:	3/22/2018	SeqNo:	1618801	Units: mg/Kg	9		
Analyte	Result P	QL SPK value	SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10 50.00	0 78.3	70	130			
Surr: DNOP	4.2	5.000	84.7	70	130			
Sample ID MB-37160	SampType	BLK	TestCode:	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID:	37160	RunNo:	49989				
Prep Date: 3/21/2018	Analysis Date:	3/22/2018	SeqNo:	1618802	Units: <b>mg/K</b> g	9		
Analyte	Result P	QL SPK value	SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						
Motor Oil Range Organics (MRO)	ND	50						
Surr: DNOP	9.2	10.00	92.1	70	130			

### **Qualifiers:**

**Client:** 

**Project:** 

Sample ID LCS-37128

Client ID: LCSS

- 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 10 of 13

Client: Project:	Souder, N Road Rui	Ailler & As	ssociate	es							
Sample ID	MB-37021	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 37	021	F	anNo: 4	9818				
Prep Date:	3/14/2018	Analysis D	ate: 3/	/15/2018	S	SeqNo: 1	612571	Units: <b>mg/k</b>	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 890	5.0	1000		88.8	15	316			
Sample ID	LCS-37021	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 37	021	F	unNo: 4	9818				
Prep Date:	3/14/2018	Analysis D	ate: 3/	/15/2018	S	SeqNo: 1	612572	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	28	5.0	25.00	0	110	75.9	131			
Surr: BFB		1100		1000		108	15	316			
Sample ID	1803726-002AMS	SampT	ype: MS	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	L1-1	Batch	ID: 37	021	F	unNo: 4	9818				
Prep Date:	3/14/2018	Analysis D	ate: 3/	/15/2018	S	SeqNo: 1	612575	Units: <b>mg/k</b>	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	30	4.9	24.39	0	124	77.8	128			
Surr: BFB		1000		975.6		105	15	316			
Sample ID	1803726-002AMSI	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	L1-1	Batch	ID: 37	021	F	unNo: 4	9818				
Prep Date:	3/14/2018	Analysis D	ate: 3/	/15/2018	S	SeqNo: 1	612576	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	29	4.8	23.79	0	122	77.8	128	4.13	20	
Surr: BFB		990		951.5		104	15	316	0	0	

#### **Qualifiers:**

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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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

	Miller & A Inner TEG	ssociate	es							
Sample ID MB-37021	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 37	021	RunNo: <b>49818</b>						
Prep Date: 3/14/2018	Analysis D	Date: 3/	15/2018	SeqNo: 1612610			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10					-			
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	80	120			
Sample ID LCS-37021	SampT	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 37	021	F	RunNo: 4	9818				
Prep Date: 3/14/2018	Analysis D	Date: 3/	15/2018	Ş	SeqNo: 1	612611	Units: mg/h	٨g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.93	0.10	1.000	0	93.4	70.1	121			
Benzene	1.0	0.025	1.000	0	100	77.3	128			
Toluene	0.99	0.050	1.000	0	99.5	79.2	125			
Ethylbenzene	0.97	0.050	1.000	0	97.2	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	99.9	81.6	129			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	80	120			
Sample ID 1803726-001AMS	Samp1	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L1-0.5	Batcl	h ID: 37	021	F	RunNo: 4	9818				
Prep Date: 3/14/2018	Analysis D	Date: 3/	15/2018	S	SeqNo: 1	612615	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.98	0.099	0.9901	0	99.0	56.9	130			
Benzene	1.1	0.025	0.9901	0	108	68.5	133			
Toluene	1.1	0.050	0.9901	0.01089	107	75	130			
Ethylbenzene	1.1	0.050	0.9901	0	108	79.4	128			
Xylenes, Total	3.3	0.099	2.970	0.03067	110	77.3	131			
Surr: 4-Bromofluorobenzene	0.88		0.9901		89.1	80	120			
Sample ID 1803726-001AMS	D Samp1	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L1-0.5	Batcl	h ID: 37	021	F	RunNo: 4	9818				
Prep Date: 3/14/2018	Analysis D	Date: 3/	15/2018	9	SeqNo: 1	612620	Units: mg/k	٢g		
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.93	0.099	0.9852	0	94.8	56.9	130	4.79	20	
Benzene	1.0	0.025	0.9852	0	102	68.5	133	5.88	20	
Toluene	1.0	0.049	0.9852	0.01089	101	75	130	6.40	20	
Ethylbenzene	1.0	0.049	0.9852	0	102	79.4	128	6.37	20	

#### **Qualifiers:**

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- 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

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WO#: 1803726 26-Mar-18

Client: Project:	Souder, M Road Run		ssociate	es							
Sample ID 1	803726-001AMSD	726-001AMSD     SampType:     MSD     TestCode:     EPA Method 8021B:     Volatiles									
Client ID: L	.1-0.5	Batch	n ID: 37	021	R	unNo: 49	9818				
Prep Date:	3/14/2018	Analysis D	ate: 3/	15/2018	S	eqNo: 10	612620	Units: <b>mg/K</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total		3.1	0.099	2.956	0.03067	103	77.3	131	6.82	20	
Surr: 4-Bromofl	luorobenzene	0.87		0.9852		88.3	80	120	0	0	

#### **Qualifiers:**

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- 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
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- W Sample container temperature is out of limit as specified

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu Albu TEL: 505-345-3975 Website: www.hal	49( quero FAX:	)1 Hawkir nue, NM 8 505 <b>-</b> 345-	ns NE 87109 <b>San</b> -4107	Sample Log-In Check List							
Client Name: SMA-CARLSBAD	Work Order Number:	180	3726		RcptNo: 1							
Completed By: Dennis Suazo 3/	/13/2018 9:40:00 AM /13/2018 4:24:20 PM	x		Mon Daniga	· · · · · · · · · · · · · · · · · · ·							
Reviewed By: SPCL 03/14/18	1	0		<i>·</i> • •	DD5							
Chain of Custody	Ŀ	- 4	nu	cel Psy	1705							
1. Is Chain of Custody complete?		Yes		No 🗔	Not Present							
2. How was the sample delivered?		<u>Cou</u>										
Log In												
3. Was an attempt made to cool the samples?		Yes		No 🗌	NA 🗌							
4. Were all samples received at a temperature of >	⊳0° C to 6.0°C	Yes		No 📋	NA 🗔							
5. Sample(s) in proper container(s)?		Yes		No 🗌								
6. Sufficient sample volume for indicated test(s)?	•	Yes		No 🗌								
7, Are samples (except VOA and ONG) properly pro	eserved?	Yes	$\checkmark$	No 🗌								
8. Was preservative added to bottles?	Ň	Yes	□.	No 🗹	NA 🗍							
9. VOA vials have zero headspace?	`	/es		No 🗌	No VOA Vials 🗹							
10. Were any sample containers received broken?		Yes		No 🗹 🛛	# of preserved							
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Y	ſes		No 🗌	for pH:	>12 unless noted)						
12. Are matrices correctly identified on Chain of Cust	tody?	/es	✓	No 🗆	Adjusted?							
13. Is it clear what analyses were requested?		/es		No 🗌								
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>	١	(es	✓	No 🗆 🛛	Checked by:							
Special Handling (if applicable)												
15. Was client notified of all discrepancies with this of	order?	Yes		No 🗌	NA 🗹							
Person Notified:	Date:											
By Whom:	Via:	eMa	il 🗌 P	hone 🗌 Fax	In Person							
Regarding:												
Client Instructions:	······································			**************************************								
16. Additional remarks:												
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Ir 1 5.8 Good Not Pre-		al Da	te	Signed By								

-- -- --

ĺ		4901 Hawkins NE - Albuquerque, NM 87109		Analysis	() () () () () () () () () () () () () (	)S'*C (SV HW / (	оз <sup>,</sup> Р( В В В В В В В В В В В В В В В В В В В	+ TP 2(0 / 1 23, Nd 23, Nd 53, Nd 53, Nd 6 53, Nd 7 53, Nd 7 53, Nd 7 53, Nd 7 53, Nd 7 53, Nd 7 54, 1 54, 10, 10, 10, 10, 10, 10, 1	-^O ijdes jdes jo ot (GF (GF	Ф ТРН (Method EDB (Method EDB (Method EDB (Method EDB (Method EDB (8310 EDB (8310 EDB (8310 EDB (8310 EDB (8310 EDB (8310 EDB (8310 EDB (8310) EDB (8310) EDB (8310) EDB (8310) EDB (8310) EDB (8310) EDB (8310) EDB (8310) EDB (8310) EDB (8330) EDB (8330)	X X X										to LUCA Add BUS 6/1/m to -26.		as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report,
Turn-Around Time: 5 day true	🗆 Standard 🗆 Rush	Koad Kunar TE	Project #:		Project Manager:	Lad lular Lad	river in the contraction	Onlos XYes Down	Sample Temperature: 5, 8' 😸 👘	Container Preservative HEAL No. Type and # Type 190377 6	402 00	/						7			HARD I Slight	A COLONNER BIJA N Date Time	accredited laboratories. Alisserves
Chain-of-Custody Record	Client: SMJ - C. Durl	Mailing Address:		Phone #:	email or Fax#:	lge:	Candard Devel 4 (Full Validation)		🗆 EDD (Type)	Date Time Matrix Sample Request ID	3/18 12:22 50: 11-0.5	1 12:30 7 21-1	( R:34 ( L2-0.5	12:41 22-1	1 niss 1 2-0.5	11:00 1 C3-1	1 1:05 1 5G'			10	nemory M	Shalls (90 Achington by 1)	If necessary, samples submitted to Hall Environmental may be subcontracted to other



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

May 03, 2018

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

OrderNo.: 1804D28

RE: Roadrunner TEG

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/26/2018 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

Analytical Report Lab Order 1804D28 Date Reported: 5/3/2018

<b>CLIENT:</b> Souder, Miller & Associates <b>Project:</b> Roadrunner TEG	Client Sample ID: L1-1.5' Collection Date: 4/24/2018 9:57:00 AM											
Project:Roadrunner TEGLab ID:1804D28-001	Matrix:	SOIL		d Date: 4/26/2018 9:15:00 AM								
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	MRA						
Chloride	310	30	mg/Kg	20	5/2/2018 1:05:35 PM	37900						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5			Analyst	t: TOM						
Diesel Range Organics (DRO)	36	9.6	mg/Kg	1	4/30/2018 5:30:03 PM	37838						
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/30/2018 5:30:03 PM	37838						
Surr: DNOP	100	70-130	%Rec	1	4/30/2018 5:30:03 PM	37838						
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	II NSB						
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/28/2018 1:06:37 AM	37823						
Surr: BFB	92.1	15-316	%Rec	1	4/28/2018 1:06:37 AM	37823						

### 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.
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
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Analytical Report Lab Order 1804D28 Date Reported: 5/3/2018

CLIENT: Souder, Miller & Associates Project: Roadrunner TEG	Client Sample ID: L3-1.5' Collection Date: 4/24/2018 10:07:00 AM											
Lab ID: 1804D28-002	Matrix:	SOIL	Received l	Received Date: 4/26/2018 9:15:00 AM								
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	: MRA						
Chloride	700	30	mg/Kg	20	5/2/2018 1:42:48 PM	37900						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5			Analyst	: TOM						
Diesel Range Organics (DRO)	200	9.2	mg/Kg	1	4/30/2018 5:52:12 PM	37838						
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/30/2018 5:52:12 PM	37838						
Surr: DNOP	93.1	70-130	%Rec	1	4/30/2018 5:52:12 PM	37838						
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	II NSB						
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/28/2018 1:29:49 AM	37823						
Surr: BFB	91.7	15-316	%Rec	1	4/28/2018 1:29:49 AM	37823						

### Hall Environmental Analysis Laboratory, Inc.

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- b Sample Diffice Due to Malifx
- H Holding times for preparation or analysis exceeded
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- 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 6
- P Sample pH Not In Range
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- W Sample container temperature is out of limit as specified

Client: Project:		ler, Miller & Asso lrunner TEG	ociate	S							
Sample ID	MB-37900	SampType	e: <b>mb</b>	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID	): 379	<b>900</b>	F	RunNo: 5	0986				
Prep Date:	5/2/2018	Analysis Date	e: <b>5/</b> 2	2/2018	S	SeqNo: 1	656322	Units: <b>mg/K</b>	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-37900	SampType	e: Ics		Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID	: 379	<b>900</b>	F	RunNo: 5	0986				
Prep Date:	5/2/2018	Analysis Date	e: 5/2	2/2018	S	SeqNo: 1	656323	Units: <b>mg/K</b>	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	96.0	90	110			

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- - Page 3 of 6
- In Range

Client: Project:	Souder, I Roadrun	Miller & As ner TEG	ssociate	es							
Sample ID	LCS-37838	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	LCSS	Batch	n ID: 37	838	F	RunNo: 5	0909				
Prep Date:	4/27/2018	Analysis D	ate: 4	/30/2018	S	SeqNo: 1	653303	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	48	10		0	96.0	70	130			
Surr: DNOP		4.8		5.000		96.3	70	130			
Sample ID	MB-37838	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 37	838	F	RunNo: 5	0909				
Prep Date:	4/27/2018	Analysis D	ate: 4	/30/2018	S	SeqNo: 1	653304	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	ND	10					-			
-	e Organics (MRO)	ND	50								
Surr: DNOP		10		10.00		102	70	130			
Sample ID	LCS-37865	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	LCSS	Batch	n ID: 37	865	F	lunNo: 5	0940				
Prep Date:	4/30/2018	Analysis D	ate: 5	/1/2018	S	SeqNo: 1	654117	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.9		5.000		78.0	70	130			
Sample ID	MB-37865	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 37	865	F	lunNo: 5	0940				
Prep Date:	4/30/2018	Analysis D	ate: 5	/1/2018	S	SeqNo: 1	654118	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.2		10.00		82.1	70	130			
Sample ID	LCS-37864	SampT	ype: LC	CS	Tes	tCode: El	PA Method	8015M/D: Die	sel Rana	e Organics	
Client ID:		•	n ID: 37			anNo: 5			Ū	-	
Prep Date:	4/30/2018	Analysis D	ate: 5	/1/2018	S	SeqNo: 1	654570	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.8		5.000		96.3	70	130			
Sample ID	MB-37864	SamoT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
-	PBS		n ID: 37			lunNo: 5					
Prep Date:		Analysis D				SeqNo: 1		Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
								··········			

#### **Qualifiers:**

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- H Holding times for preparation or analysis exceeded
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WO#:	1804D28
	03-May-18

Client: Project:		er, Miller & As runner TEG	sociate	es							
Sample ID	LCS-37898	SampTy	/pe: <b>LC</b>	s	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 37	898	F	aunNo: 5	0978				
Prep Date:	5/2/2018	Analysis Da	ate: <b>5</b> /	2/2018	S	SeqNo: 1	655172	Units: %Re	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7		5.000		94.8	70	130			
Sample ID	MB-37898	SampTy	/pe: <b>MI</b>	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 37	898	F	RunNo: 5	0978				
Prep Date:	5/2/2018	Analysis Da	ate: 5/	2/2018	S	SeqNo: 1	655173	Units: %Ree	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.8		10.00		98.0	70	130			

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- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- 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 5 of 6

24

1000

5.0

25.00

1000

	r, Miller & Associates unner TEG	
Sample ID MB-37823	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 37823	RunNo: <b>50883</b>
Prep Date: 4/26/2018	Analysis Date: 4/27/2018	SeqNo: 1652266 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 930 1000	92.9 15 316
Sample ID LCS-37823	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 37823	RunNo: 50883
Prep Date: 4/26/2018	Analysis Date: 4/27/2018	SeqNo: 1652267 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

0

97.4

99.6

75.9

15

131

316

#### **Qualifiers:**

Surr: BFB

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

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ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-	nmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109 45-3975 FAX: 505-345-4107 www.hallenvironmental.com	Log-In Check List
Client Name: SMA-CARLSBAD Work Order	Number: 1804D28	RcptNo: 1
Received By: Erin Melendrez 4/26/2018 9:1 Completed By: Ashley Gallegos 4/26/2018 11: Reviewed By: MW 4/2Le/18		3 04/26/18
Chain of Custody	U	0
1. Is Chain of Custody complete?	Yes 🗹 No 🗌 No	ot Present
2. How was the sample delivered?	Courier	
Log In 3. Was an attempt made to cool the samples?	Yes 🗹 No 🗌	NA 🗀
4. Were all samples received at a temperature of >0° C to 6.0°	Yes 🗹 No 🗌	
5. Sample(s) in proper container(s)?	Yes 🗹 No 🗌	
<ul><li>6. Sufficient sample volume for indicated test(s)?</li><li>7. Are samples (except VOA and ONG) properly preserved?</li><li>8. Was preservative added to bottles?</li></ul>	Yes ☑ No □ Yes ☑ No □ Yes □ No ☑	NA 🗔
<ul><li>9. VOA vials have zero headspace?</li><li>10. Were any sample containers received broken?</li></ul>	Yes 🗌 No 🗹 🦳	OA Vials 🔽
<ul> <li>11. Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> <li>40. Are matrices examplify identified on Obside (Optic 10)</li> </ul>	Yes ☑ No □ bottle for pl	es checked
<ul><li>12. Are matrices correctly identified on Chain of Custody?</li><li>13. Is it clear what analyses were requested?</li></ul>	Yes 🗹 No 🗌 Yes 🗹 No 🗌	Nujusted: NOUTS
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes V No	Checked by:
Special Handling (if applicable)		
15. Was client notified of all discrepancies with this order?	Yes No	NA 🗹
	ate ia: eMail Phone Fax In	Person
16. Additional remarks:	······	<u></u>
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal 1 4.8 Good Yes	o Seal Date Signed By	

	ר קר							)r N)	р Y)	Air Bubbles											
ļ	HALL ENVIRONMENTAL ANALYSIS LABORATORY		ი												_						
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	E S	www.hallenvironmental.com	Albu	Ц	Analysis Request					ARCRA 8 Me			`			-					;
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			4901 Hawkins NE	Tel. 505-345-3975						83108 H9T	$\succ$	X							<u> </u>	s: CÌ <i>Q</i>	
			49	Ē						BTEX + MT										Remarks: L U CÌ C	
		- <b></b>		<u> </u>		()	r208) e	+ TMB'	- 38	BTEX + MT					 		· .			R R	
	Eday		~ 1 EG				)eyant	ON D		НЕАL No. 1804.D28	100-	-002								H 25 CS 0230	UIZUUS OUE
Time:	∬ Rush_		ANNEV			iger:	Justin W	MRS MYes	perature: C	Preservative Type		-								J	COUNIER Ulzens ENNS
Turn-Around Time:	□ Standard	Project Name:	Roady	Project #:		Project Manager:	Au	Sampler: / On Ice:	Tem	Container Type and #	402	11								Received by:	Received by:
Chain-of-Custody Record	SMA - Carlsbad.						Level 4 (Full Validation)			Sample Request ID	1-15-	L3-1.5'								dby:	Mayed by: Recented by COUNER Date Time
-of-Cu	SmA		s:					□ Other		Matrix	1: Se 1										Keiine
hain			Addres			Fax#:	<sup>a</sup> ackage dard	tation AP	(Type)	Time	.9.5	10:01								Time: 0730	Time:
с С	Client:		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation	□ EDD (Type)	Date	4/24/189:57					ĺ				Date: 1/25/18	zollg



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

June 06, 2018

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

OrderNo.: 1805E19

RE: Roadrunner TEG

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/25/2018 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 #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1805E19

Date Reported: 6/6/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: L3-1.75'											
Project: Roadrunner TEG	<b>Collection Date:</b> 5/22/2018 10:10:00 AM											
Lab ID: 1805E19-001	Matrix: SOIL		Receive	ed Dat	<b>e:</b> 5/2	25/2018 9:15:00 AM						
Analyses	Result	PQL	Qual U	U <b>nits</b>	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS						Analyst	MRA					
Chloride	99	30	r	mg/Kg	20	6/1/2018 12:56:28 PM	38440					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: Irm					
Diesel Range Organics (DRO)	ND	10	r	mg/Kg	1	5/31/2018 7:31:59 AM	38349					
Motor Oil Range Organics (MRO)	ND	50	r	mg/Kg	1	5/31/2018 7:31:59 AM	38349					
Surr: DNOP	97.7	70-130	c	%Rec	1	5/31/2018 7:31:59 AM	38349					
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB					
Gasoline Range Organics (GRO)	ND	4.7	r	mg/Kg	1	5/30/2018 8:04:15 PM	38366					
Surr: BFB	91.3	15-316	c	%Rec	1	5/30/2018 8:04:15 PM	38366					

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

\* 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 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:		ler, Miller & As lrunner TEG	sociate	es							
Sample ID	MB-38440	SampTy	vpe: <b>m</b> t	olk	Tes	tCode: El	PA Method	300.0: Anion	IS		
Client ID:	PBS	Batch	ID: 38	440	F	RunNo: 5	1683				
Prep Date:	6/1/2018	Analysis Da	ate: 6/	1/2018	S	SeqNo: 1	686268	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-38440	SampTy	pe: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	IS		
Client ID:	LCSS	Batch	ID: 38	440	F	RunNo: 5 <sup>,</sup>	1683				
Prep Date:	6/1/2018	Analysis Da	ate: 6/	1/2018	S	SeqNo: 1	686269	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.7	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
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### Page 2 of 4

WO#: **1805E19** *06-Jun-18* 

	Miller & A mer TEG	ssociate	es							
Sample ID MB-38349	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batch	n ID: 38	349	R	anNo: 5	1598				
Prep Date: 5/29/2018	Analysis D	Date: 5/	30/2018	S	SeqNo: 1	683772	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	70	130			
Sample ID LCS-38349	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: 38	349	R	anNo: 5	1598				
Prep Date: 5/29/2018	Analysis D	Date: 5/	31/2018	S	SeqNo: 1	683773	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	4.4		5.000		88.0	70	130			

#### **Qualifiers:**

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

Page 3 of 4

,	Miller & As mer TEG	ssociate	es							
Sample ID MB-38366	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: 38	366	F	RunNo: 5	1603				
Prep Date: 5/29/2018	Analysis D	ate: 5/	/30/2018	S	SeqNo: 1	682799	Units: <b>mg/k</b>	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.9	15	316			
Sample ID LCS-38366	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: 38	366	F	RunNo: 5	1603				
Prep Date: 5/29/2018	Analysis D	ate: 5/	/30/2018	5	SeqNo: 1	682800	Units: <b>mg/H</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	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
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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ENVIRONMENTAL ANALYSIS LABORATORY	vironmental Analysis Labo 4901 Hawk Albuquerque, NM 15-345-3975 FAX: 505-342 ite: www.hallenvironment	ins NE 87109 Sar 5-4107	nple Log-In Check Li	st
Client Name SMA-CARLSBAD Work Ord	er Number: 1805E19		ReptNo: 1	
		2010 C		
Received By: Isaiah Ortiz 5/25/2018 9	15:00 AM	I Ch		
Completed By Erin Melendrez 5/25/2018 1	0:00:05 AM	ina	7	
Reviewed By: JAD 5/25/18				
Labled By: JB 05/25/18				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🖌	No 🗌	Not Present	
2. How was the sample delivered?	Courier			
Log In				
<ol> <li>Was an attempt made to cool the samples?</li> </ol>	Yes 🗹	No 🗌	NA 🗌	
<ol> <li>Were all samples received at a temperature of &gt;0° C to 6.</li> </ol>	0°C Yes ☑	No 🗌	NA 🛄	
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗌		
6 Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌		
B. Was preservative added to bottles?	Yes 🗌	No 🖌	NA 🗌	
9. VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🗹	
0. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH (<2 or >12 upless pr	J( 8
2 Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗆	Adjusted?	-
3. Is it clear what analyses were requested?	Yes 🖌	No 🗌	0	
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>	Yes 🗹	No 🗌	Checked by 5	-
pecial Handling (if applicable)				
5. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date			
By Whom:	Via 🗌 eMail 🔲	Phone 🗌 Fax	In Person	
Regarding Client Instructions				
16. Additional remarks:				

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Redect #:     Redect #:       Project #:     Project Manager:       Project Manager:     Red run ref $16$ Au Sth     Leyart       Sampler:     Lues       On Ice:     Do       Sample Temperature:     0.9
Project #: Project #: $A_{US}F_{A} & C_{Van}F_{A}$ Sampler: $MEE + TME's (8021)$ On Ice: $DSEs = 0$ No Sample Temperature: $O.9$
Project Manager: Project Manager: $A_{M} S F h U e yant,$ Sampler: $M S f h U e yant,$ Samp
Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Profect Mana
Austry Weyant, Sampler: MLS On Ice: Dres a No Sample Temperature: 0,9
5B (GRO / DF MTBE + TMB MTBE + TMB MTBE + TMB MTBE + TMB
Temperature: 0, 2 MTBE +
TM 11M
+ X3T8 108 H9T
402 -001 WAY X
Received by Remarks: Received by Church Pater Time Remarks: UNCI d
Received M: Quart Date Time