

Souder, Miller & Associates•201 S. Halagueno St.•Carlsbad, NM 88220 (575) 689-8801

October 9, 2018

#5E26816-BG1

NMOCD District II Maria Pruett 811 South First Street Artesia, NM 88210

SUBJECT: REMEDIATION REPORT OF THE EMERGENCY RESPONSE ASSOCIATED WITH THE ZACH MCCORMICK FEDERAL COM #201H (2RP-4742), EDDY COUNTY, NEW MEXICO

Dear Ms. Pruett:

On behalf of Matador Resources Company (Matador), Souder, Miller & Associates (SMA) has prepared this report that describes the initial action, delineation and remediation for a release associated with the Zach McCormick Federal Com #201H. The site is in Unit D, Section 18, Township 24S, Range 29E, Eddy County, New Mexico, on private property. Figure 1 illustrates the vicinity and location of the site.

	Table 1: Release Information	on and Closure	Criteria			
Name	Zach McCormick Federal Com #201H	Company	Matador Resources Co.			
API Number	30-015-44247	Location	32.223435, -104.032545			
Incident Number		2RP-4742				
Estimated Date of Release	4/17/2018	Date Reported to NMOCD	4/17/2018			
Land Owner	Private	Reported To	NMOCD District II			
Source of Release	Lay flat hose	-				
Released Volume	239 bbls	Released Material	Produced Water			
Recovered Volume	120 bbls	Net Release	119 bbls			
NMOCD Closure Criteria	<50 feet to groundwater					
SMA Response Dates	April 17, 2018 – April 19, 2018, May 5, 2018					

Table 1, below, summarizes information regarding the release.

1.0 Background

On April 17, 2018, a road crossing for a lay flat hose failed causing a recycled water travel along the road. Fluids continued to cross the road into the irrigation ditch east of the road. Approximately two hundred thirty-nine (239) barrels of recycle water were released. One hundred nineteen (119) barrels were recovered using a vacuum truck during the initial response. The release is illustrated on Figures 1 and 2.

Engineering • Environmental • Surveying

2.0 Site Information and Closure Criteria

The Zach McCormick Federal Com #201H release location is approximately 950 feet southwest of the Pecos River in Malaga, New Mexico on private land. The location has is at an elevation of approximately 2,960 feet above mean sea level (amsl)

Based upon the New Mexico State Engineer's Office (NMOSE) online water well database (Appendix B), depth to groundwater is estimated to be 42 feet below grade surface (bgs). There is only one well is located within a 1,000-foot radius of the site; Pod C-00983, a domestic freshwater well. The nearest significant water source is the Pecos Rivers, located approximately 950 feet to the north of the northern most point of the release. Figure 1 and 2 illustrate the site with various radii to indicate that the site does lie within a sensitive area as described in 19.15.29.12.C(4) NMAC due to Pod C-00983. Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Initial Action & Release Characterization

On April 17, 2018, SMA received a phone call from Matador Resources reporting a release and requesting an emergency response to be initiated. NMOCD was notified and an emergency one call was placed. SMA field personnel mobilized to the emergency response location to perform initial action which included source elimination and site security. SMA personnel were met onsite by the client's sub-contractor, PROs Services. At this time, the road was bladed to prevent further drainage and berms had been placed across the road and vacuum trucks were mobilized to remove the freestanding fluid. After assessing the release area, SMA personnel began to guide the removal of impacted material within the irrigation ditch east of the road. As the landowner was planning to irrigate no matter what, these delineation and excavation efforts continued through April 19 to ensure the affected material was removed before irrigation could spread them.

Soil samples on either side (designated by "SW" samples) and the bottom of the ditch (designated by "L" samples) were collected, and field screened with an electrical conductivity meter (EC) to characterize the release and guide the excavation. The impacted area was excavated until samples returned clean field screens or to refusal (a maximum of 4.75' bgs or 1.5' bgs), whichever came first. In this case, the soil type that acted as a cemented, restrictive layer was the Upton class. The NRCS soil report for the release area is located in Appendix C.

Several background soil samples were also taken across the landowner's field (F1, F2 & F3; FBG1-FBG4). A sample from within the irrigation ditch was taken north of the release and south of the release (Irr North & Irr South). The spill piles were also sent for laboratory analysis (SP1-SP4 & SP1).

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 D.

Page 3 of 4

Zack McCormick Emergency Response October 9, 2018

4.0 Conclusions

SMA completed a delineation and excavation of impacted soil within the irrigation ditch on the morning of April 19, 2018. Because the irrigation water had to pass through the previously affected ditch before reaching the field, several precautions were taken. A plastic liner was placed at the base of the ditch where the water would normally flood into the field. A baseline water sample was collected north of the irrigation inlet, before the landowner's property and affected area was reached. When the ditch gates were lifted, the water flowed through the full length of the ditch and it was collected within the liner. Water samples were collected just before this containment was reached after the release of the first slug of water. A second water sample was collected in the same manner after the second slug of water. These samples (slug #1 and slug #2) were then compared to the inlet water sample. These lab results determined that the initial action taken during the emergency response prevented the irrigation water from being affected, and therefor allowed the landowner to irrigate his field without further contamination.

SMA returned to the location on October 25, 2018 to re-collect closures samples that were not below NMOCD closure standards during the initial action. A total of 14 samples were collected and processed according to NMOCD soil sampling procedures. They were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for chlorides EPA Method 300.0.

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. 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 (970) 565-4465 x1504 .

Submitted by: SOUDER, MILLER & ASSOCIATES

M. Janyan

Melodie Sanjari Staff Scientist

Reviewed by:

ust Merant

Austin Weyant Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Regional Vicinity and Well Head Protection Map Figure 2: Surface Water Protection Map Figure 3: Site and Sample Location Map (3A-3C)

Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Appendix B: NMOSE Wells Report Appendix C: NRCS Soil Map & Report Appendix D: Laboratory Analytical Reports Page 4 of 161

Page 4 of 4

FIGURES



꿍

McCorm

Zach

ts/G

SMA





ments\GISdata\Maps\Zach McCormick.mxd

SMA/Doc

C:/li

Document:



ments/GISdata\Maps\Zach McCormick.mxc

Document: C:\Users\mrs.SMA\Docu

Received by OCD: 1/12/2023 1:44:17 PM



TABLES

Site Information (19.15.29.11.A(2, 3, and 4) NM/	Source/Notes	
Depth to Groundwater (feet bgs)	Approx. 42	OSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	7 Wells, Pecos River	OSE (Appenddix B), USGS 7.5 Min. Quad
Hortizontal Distance to Nearest Significant Watercourse (ft)	950	USGS 7.5 Min. Quad

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
		Closure	Criteria	a (units in r	ng/kg)	
Depth to Groundwater		Chloride *numerical limit or background, whichever is greater	трн	GRO + DRO	BTEX	Benzene
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake?	no	-				
Water Well or Water Source	-	-				
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	no yes	-				
Human and Other Areas	1	600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	no					
within incorporated municipal boundaries or within a defined	20					
municipal fresh water well field? <100' from wetland?	no	-				
within area overlying a subsurface mine	-					
within an unstable area?	no	1				
within a 100-year floodplain?	no	-				

Zack McCormick Sample Summary Table

4/18/201 4/18/201 4/18/201 4/18/201 4/18/201 F3 4/18/201 F4 4/18/201 F62 4/18/201 F863 4/18/201 F863 4/18/201 F864 4/18/201 F863 4/18/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/17/201 10/25/201 L2 4/17/201 L3 4/17/201 L2 4/17/201 L2 4/17/201 L3 4/18/201 L32 4/18/201 L32 4/18/201 L33 4/18/201 L34 4/18/201 L35 4/18/201	D Closure Criteria 7 0.5 7 1 7 2 7 surface 7 1 7 0.5	in-situ	ppm 50 mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens	Laboratory
4/18/201 4/18/201 4/18/201 4/18/201 4/18/201 F3 4/18/201 F4 4/18/201 F62 4/18/201 F863 4/18/201 F863 4/18/201 F864 4/18/201 F863 4/18/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/17/201 10/25/201 L2 4/17/201 L3 4/17/201 L2 4/17/201 L2 4/17/201 L3 4/18/201 L32 4/18/201 L32 4/18/201 L33 4/18/201 L34 4/18/201 L35 4/18/201	7 0.5 7 1 7 2 7 surface 7 1 7 0.5		50 ma/Ka						(ppm)	mg/Kg
F1 4/18/201 4/18/201 4/18/201 F3 4/18/201 4/18/201 F3 4/18/201 4/18/201 F8G2 4/18/201 F8G2 4/18/201 F8G2 4/18/201 F8G2 4/18/201 F8G2 4/18/201 F8G3 4/18/201 F8G3 4/18/201 F8G4 4/18/201 SP1 4/18/201 SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/17/201 L5 4/17/201 L6 4/17/201 L20 4/17/201 L20 4/17/201 L21 4/17/201 L32 4/18/201 L33 4/18/201 L41 4/18/201 L33 4/18/201 L41 4/13/201 L41 4/13/201 SW21 4/17/201 SW2	7 1 7 2 7 surface 7 1 7 0.5			10 mg/Kg				100 mg/Kg	,	600 mg/kg
4/18/201 F3 4/18/201 F4 4/18/201 F8 4/18/201 FB61 4/18/201 FB62 4/18/201 FB63 4/18/201 FB63 4/18/201 FB63 4/18/201 FB63 4/18/201 FB63 4/18/201 FF64 4/18/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP3 4/17/201 L5 4/17/201 L6 1/0/25/201 L6 4/17/201 L20 4/17/201 L21 4/17/201 L22 4/18/201 L32 4/18/201 L34 4/18/201 L34 4/18/201 L34 4/18/201 L34 4/18/201 L34 4/18/201 L34 4/18/201 L41 1/0/25/201	7 2 7 surface 7 1 7 0.5									150
F3 4/18/201 4/18/201 F4 4/18/201 F862 4/18/201 F863 4/18/201 F863 4/18/201 From 4/18/201 From 4/18/201 From 4/18/201 From 4/18/201 From 4/18/201 From 4/18/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/17/201 L0 4/17/201 L0 4/17/201 L1 4/17/201 L2 4/17/201 L3 4/18/201 L3 4/18/201 L3 4/18/201 L3 4/18/201 L4 4/18/201 L4 4/18/201 L3 4/18/201 L4 4/18/201 L3 4/18/201 L4 4/18/201 </td <td>7 surface 7 1 7 0.5</td> <td>in-situ in-situ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>551</td> <td>150 260</td>	7 surface 7 1 7 0.5	in-situ in-situ							551	150 260
4/18/201 F4 4/18/201 F8G2 4/18/201 F8G2 4/18/201 F8G3 4/18/201 FBG4 4/18/201 FBG4 4/18/201 FBG3 4/18/201 FBG4 4/18/201 Fromth 4/18/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/17/201 L5 4/17/201 L6 4/17/201 L20 4/17/201 L21 4/17/201 L22 4/18/201 L33 4/18/201 L34 4/18/201 L35 4/18/201 L41 10/25/201 L41 4/18/201 L38 4/18/201 L41 4/18/201 L41 4/18/201 L54 4/18/201 SW24 4/17/201	7 0.5	in-situ								130
H4 4/18/201 FBG1 4/18/201 FBG2 4/18/201 FBG3 4/18/201 FBG3 4/18/201 Irr North 4/18/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 L5 4/17/201 L6 4/17/201 L7 4/17/201 L20 4/17/201 L21 4/17/201 L32 4/18/201 L33 4/18/201 L34 4/18/201 L41 10/25/201 L41 4/18/201 L54 4/18/201 L54 4/18/201 SW21 4/17/201 SW22 4/17/201		in-situ								150
FBG1 4/18/201 FBG2 4/18/201 FBG3 4/18/201 FBG4 4/18/201 FBG4 4/18/201 FBG4 4/18/201 FBG3 4/18/201 FBG4 4/18/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP3 4/18/201 SP4 4/17/201 L5 4/17/201 L6 10/25/201 L8 4/17/201 L20 4/17/201 L21 4/17/201 L32 4/18/201 L33 4/18/201 L34 4/18/201 L34 4/18/201 L41 10/25/201 L43 4/18/201 L44 4/18/201 L37 4/18/201 L44 4/18/201 L54 4/18/201 L54 4/18/201 SW24 4/17/201	/ 1	in-situ in-situ							1,980	1300 160
FBG2 4/18/201 FBG3 4/18/201 FBG4 4/18/201 Irr North 4/18/201 Irr North 4/18/201 SP1 4/18/201 SP2 4/18/201 SP2 4/18/201 SP3 4/18/201 SP3 4/18/201 SP4 4/18/201 SP3 4/17/201 L5 4/17/201 L6 4/17/201 L7 5/5/2018 L9 4/17/201 L20 4/17/201 L21 4/17/201 L32 4/18/201 L33 4/18/201 L34 4/18/201 L37 4/18/201 L41 4/18/201 L0/25/201 L41 4/18/201 10/25/201 L44 4/18/201 L54 4/18/201 L54 4/17/201 SW20 4/17/201 SW21 4/17/201 SW22 4	7 1	background								180
FBG4 4/18/201 Irr North 4/18/201 Irr South 10/25/201 SP1 4/18/201 SP2 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP1 5/5/2018 SP1 5/5/2018 4/17/2011 10/25/201 L6 4/17/2011 L9 4/17/2011 L11 4/17/2011 L20 4/17/2011 L21 4/17/2011 L23 4/18/201 L34 4/17/2011 L32 4/18/201 L34 4/18/201 L35 4/18/201 L41 4/18/201 L34 4/18/201 L41 4/18/201 L24 4/17/2011 L34 4/18/201 L0/25/201 L34 L418/201 10/25/201 L44		background								170
Irr North 4/18/201 Irr South 10/25/201 SP1 4/18/201 SP2 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/17/2011 L0 4/17/2011 L0 4/17/2011 L0 4/17/2011 L0 4/17/2011 L2 4/17/2011 L2 4/17/2011 L2 4/17/2011 L3 4/18/201 L3 4/18/201 L3 4/18/201 L4 4/17/2011 L3 4/18/201 L4 4/18/201 L4 4/18/201 L4 4/18/201 L4 4/18/201 L4 4/17/2011 SW2 4/17/2011 SW2 4/17/2011 SW2 4/17/2011		background							623	340
Inr South 10/25/201 SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 L5 4/17/201 L6 10/25/201 L8 4/17/201 L20 4/17/201 L20 4/17/201 L21 4/17/201 L24 4/17/201 L32 4/18/201 L33 4/18/201 L41 4/18/201 L52 4/18/201 SW2 4/17/201 L54 4/18/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201		background ditch background							392	160 880
SP1 4/18/201 SP2 4/18/201 SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/18/201 L5 4/17/201 L6 10/25/201 L6 4/17/201 L9 4/17/201 L1 4/17/201 L2 4/17/201 L2 4/17/201 L2 4/17/201 L2 4/17/201 L24 4/17/201 L32 4/18/201 L33 4/18/201 L34 4/18/201 L075/203 4/18/201 L075/203 4/18/201 L41 4/18/201 L075/203 4/18/201 L52 4/18/201 L52 4/18/201 L54 4/18/201 SW24 4/17/201 SW22 4/17/201		ditch background								<30
SP3 4/18/201 SP4 4/18/201 SP4 4/18/201 SP4 4/17/201 L5 4/17/201 10/25/201 10/25/201 L6 10/25/201 L8 4/17/201 L9 4/17/201 L0 10/25/201 L8 4/17/201 L1 4/17/201 L20 4/17/201 L21 4/17/201 L22 4/17/201 L33 4/18/201 L34 4/18/201 L34 4/18/201 L44 4/18/201 L41 4/18/201 L44 4/18/201 L44 4/18/201 L44 4/18/201 L44 4/18/201 L44 4/18/201 L50 10/25/201 L44 4/18/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 <	7 composite	disposed of								2700
SP4 4/18/201 SP1 5/5/2018 4/17/2011 10/25/201 10/25/201 10/25/201 10/25/201 10/25/201 10 4/17/2011 10/25/201 10/25/201 10 4/17/2011 10 10/25/201 10 4/17/2011 120 4/17/2011 121 4/17/2011 122 4/17/2011 132 4/18/201 133 4/18/201 134 4/18/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 154 4/18/201 SW22 4/17/2011 SW22 4/17/2011 SW22 4/17/2011 SW22 4/17/2011 SW22 4/17/2011										1100
SP1 5/5/201 4/17/201 4/17/201 10/25/201 10/25/201 10 4/17/201 10/25/201 10/25/201 10 4/17/201 10 10/25/201 10 4/17/201 10 10/25/201 12 4/17/201 120 4/17/201 121 4/17/201 122 4/17/201 133 4/18/201 133 4/18/201 134 4/18/201 10/25/201 10/25/201 133 4/18/201 134 4/18/201 135 4/18/201 10/25/201 10/25/201 144 4/18/201 10/25/201 10/25/201 154 4/18/201 154 4/17/201 1524 4/17/201 10/25/201 5W22 10/25/201 5W23 10/25/201 5W24 10/25/201 5W24 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>910 1800</td></td<>										910 1800
L5 4/17/2011 10/25/201 10/25/201 10/25/201 10 4/17/2011 10 5/5/2018 19 10/25/201 19 10/25/201 120 4/17/2011 121 4/17/2011 122 4/17/2011 123 4/17/2011 124 4/17/2011 128 4/17/2011 132 4/18/201 133 4/18/201 137 4/18/201 107/25/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 10/25/201 152 4/18/201 5W1 4/17/2011 5W2 4/17/2011		disposed of					-			5200
10/25/201 10/25/201 10/25/201 10/25/201 10/25/201 18 4/17/201 10/25/201 19 4/17/201 10/25/201 10/25/201 10/25/201 10/25/201 11 4/17/201 120 4/17/201 121 4/17/201 122 4/18/201 133 4/18/201 134 4/18/201 135 4/18/201 141 4/18/201 154 4/18/201 155 582 4/18/201 10/25/201 154 4/18/201 582 4/17/201 582 4/17/201 5824 4/17/201 5824 4/17/201 5824		excavated	<0.92	<0.023	<4.6	<9.5	<48	<48		1400
L6 4/17/2011 10/25/201 L8 4/17/2011 5/5/2018 L9 4/17/2011 10/25/201 L20 4/17/2011 10/25/201 L21 4/17/2011 4/17/2011 L21 4/17/2011 4/17/2011 L24 4/17/2011 4/18/201 L33 4/18/201 L34 4/18/201 L33 4/18/201 L34 4/18/201 L35 4/18/201 L44 4/18/201 L44 4/18/201 L0/25/201 L44 4/18/201 L52 4/18/201 L54 4/17/201 Sw20 4/17/201 Sw22 4/17/201 Sw22 4/17/201 Sw22 4/17/201 Sw23 4/17/201 Sw24 4/17/201 Sw25 4/17/201 Sw24 4/17/201 Sw33 4/18/201 Sw34 4/18/201 Sw35 4/18/201 Sw34 4/18/201		excavated in-situ								830 <30
10/25/201 B 4/17/201 5/5/2018 5/5/2018 19 10/25/201 120 4/17/201 121 4/17/201 122 4/17/201 123 4/17/201 124 4/17/201 133 4/18/201 133 4/18/201 133 4/18/201 137 4/18/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 148 10/25/201 148 10/25/201 148 10/25/201 10/25/201 152 4/18/201 5W1 4/17/201 5W2 4/17/201 <td></td> <td>excavated</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>980</td>		excavated								980
LB 5/5/2018 L9 4/17/2011 10/025/201 10/025/201 L2 4/17/2011 L2 4/17/2011 L2 4/17/2011 L2 4/17/2011 L2 4/17/2011 L3 4/18/201 L3 4/18/201 L3 4/18/201 L3 4/18/201 L3 4/18/201 L3 4/18/201 L4 4/18/201 L4 4/18/201 L4 4/18/201 L52 4/18/201 L52 4/18/201 L54 4/18/201 SW2 4/17/2011 SW2 4/17/2011 <td>.8 4.75</td> <td>in-situ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><30</td>	.8 4.75	in-situ								<30
L9 4/17/2011 10/25/201 L20 4/17/2011 5/5/2018 L21 4/17/2011 5/5/2018 L24 4/17/2011 L32 4/18/201 L33 4/18/201 L34 4/17/2011 L33 4/18/201 L34 4/18/201 L35 4/18/201 L34 4/18/201 L41 4/18/201 L42 4/18/201 L44 4/18/201 L44 4/18/201 L45 4/18/201 L46 4/18/201 L50 10/25/201 L54 4/18/201 SW2 4/17/2011 SW21 4/17/2011 SW22 4/17/2011 SW23 4/17/2011 SW24 4/17/2011 SW25 4/17/2011 SW26 4/17/2011 SW27 4/17/2011 SW28 4/17/2011 SW30 4/18/201 SW33 4/18/201		excavated							3,741	3200
Ib Ip(75/20) 120 4/17/201 121 4/17/201 124 4/17/201 123 4/18/201 124 4/17/201 132 4/18/201 133 4/18/201 133 4/18/201 134 4/18/201 137 4/18/201 141 4/18/201 10/25/201 148 4/18/201 10/25/201 144 4/18/201 10/25/201 148 4/18/201 10/25/201 154 4/18/201 10/25/201 5W3 5W24 4/17/201 5W23 4/17/201 5W24 4/17/201 5W25 4/17/201 5W26 4/17/201 5W27 4/17/201 5W28 4/17/201 5W29 4/17/201 5W33 4/17/201 5W34 4/18/201 5W33 4/17/201 5W34		in-situ excavated	<0.096	<0.024	<4.8	<8.7	<43	 <43	1,590	610 1100
L20 4/17/201 L21 4/17/201 L24 4/17/201 L28 4/17/201 L28 4/17/201 L32 4/18/201 L33 4/18/201 L33 4/18/201 L37 4/18/201 L37 4/18/201 L37 4/18/201 L07/25/201 L41 4/18/201 10/25/201 L44 4/18/201 L07/25/201 L48 L41 4/18/201 L07/25/201 L48 L50 4/18/201 L52 4/18/201 SW1 4/17/201 SW2 4/17/201 SW2 4/17/201 SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW32 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4		in-situ								<30
L21 5/5/2018 L24 4/17/2011 L28 4/17/2011 L32 4/18/201 L33 4/18/201 L34 4/18/201 L37 4/18/201 L38 4/18/201 L38 4/18/201 L41 4/18/201 L075/201 L44 L41 1/0/25/201 L46 4/18/201 L0/25/201 L48 4/18/201 L0/25/201 L52 4/18/201 L52 4/18/201 L52 4/18/201 SW2 4/17/201 SW2 4/17/201 SW24 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW34	8 3	in-situ	<0.099	<0.025	<4.9	<8.7	<44	<44	248	90
124 4/17/201 128 4/17/201 132 4/18/201 133 4/18/201 133 4/18/201 133 4/18/201 137 4/18/201 138 4/18/201 10/25/201 10/25/201 144 4/18/201 10/25/201 10/25/201 148 4/18/201 10/25/201 10/25/201 150 4/18/201 10/25/201 10/25/201 152 4/18/201 5W1 4/17/201 5W2 4/17/201 5W2 4/17/201 5W21 4/17/201 5W22 4/17/201 5W23 4/17/201 5W24 4/17/201 5W25 4/17/201 5W26 4/17/201 5W31 4/17/201 5W32 4/17/201 5W34 4/18/201 5W34 4/18/201 5W35 4/18/201 5W36		excavated								3000
L28 4/17/201 L32 4/18/201 L33 4/18/201 L33 4/18/201 L33 4/18/201 L33 4/18/201 L34 4/18/201 L35 4/18/201 L41 4/18/201 L0725/201 L44 L0725/201 L44 L0725/201 L48 4/18/201 L50 L54 4/18/201 L54 4/18/201 L54 4/18/201 SW2 4/17/201 SW2 4/17/201 SW24 4/17/201 SW22 4/17/201 SW22 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW30 4/18/201 SW33 4/18/201 SW34 4/18/201 SW35 4/18/2		in-situ in-situ	<0.092	<0.023	<4.6	 <9.7	 <49	 <49		260 100
132 4/18/201 4/18/201 133 4/18/201 4/18/201 137 4/18/201 4/18/201 137 4/18/201 10/25/201 141 10/25/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 150 4/18/201 10/25/201 152 4/18/201 154 4/18/201 10/25/201 534 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW33 4/18/201 SW41 4/18/201 SW41 4/18/201 SW41 4/18/201 SW44		in-situ	< 0.092	<0.023	<4.0	<9.4	<43	<43	637	630
4/18/201 133 4/18/201 137 4/18/201 138 4/18/201 141 1/18/201 10/25/201 10/25/201 144 4/18/201 10/25/201 10/25/201 144 4/18/201 10/25/201 148 10/25/201 148 10/25/201 148 10/25/201 10/25/201 152 4/18/201 10/25/201 10/25/201 152 4/18/201 5W1 4/17/201 5W2 4/17/201 5W2 4/17/201 5W24 4/17/201 5W25 4/17/201 5W24 4/17/201 5W25 4/17/201 5W24 4/17/201 5W25 4/17/201 5W24 4/17/201 5W31 4/17/201 5W32 4/17/201 5W34 4/18/201 5W34 4/18/201 5W35	7 3	excavated	< 0.097	<0.024	<4.8	<9.7	<49	<49	839	1400
4/18/201 137 4/18/201 138 4/18/201 141 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 144 4/18/201 10/25/201 148 10/25/201 152 152 4/18/201 152 4/18/201 154 4/17/201 SW2 4/17/201 SW3 4/17/201 SW20 4/17/201 SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW41 4/18/201 SW41 4/18/201		excavated							854	580 660
138 4/18/201 141 10/25/201 144 4/18/201 10/25/201 10/25/201 144 4/18/201 10/25/201 10/25/201 144 4/18/201 10/25/201 10/25/201 152 4/18/201 152 4/18/201 154 4/17/201 SW1 4/17/201 SW2 4/17/201 SW2 4/17/201 SW20 4/17/201 SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW24 4/18/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW41 4/18/201 SW44 4/18/201 SW45<	7 4	in-situ								140
L41 4/18/201 L41 10/25/201 L44 4/18/201 L45 4/18/201 L46 4/18/201 L47 4/18/201 L48 4/18/201 L50 4/18/201 L50 4/18/201 L51 4/18/201 SW1 4/17/201 SW2 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW30 4/17/201 SW31 4/17/201 SW32 4/17/201 SW33 4/17/201 SW34 4/18/201 SW34 4/18/201 SW34 4/18/201 SW34 4/18/201		in-situ	<0.1	<0.025	<5.0	<9.3	<47	<47	551	450
L41 10/25/201 L44 10/25/201 L46 4/18/201 10/25/201 L48 4/18/201 10/25/201 L50 10/25/201 L52 4/18/201 L52 4/18/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/17/201 SW33 4/17/201 SW34 4/18/201 SW33 4/17/201 SW34 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201 SW45		in-situ	<0.099 <0.094	<0.050 <0.047	<5.0 <4.7	<9.6 <9.0	<48 <45	<48 <45	767	270 920
Li4 10/25/201 L46 4/18/201 L36 4/18/201 L50 4/18/201 L50 10/25/201 L52 4/18/201 SW1 4/17/201 SW2 4/17/201 SW24 4/17/201 SW25 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW32 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW34 4/18/201 SW34 4/18/20		excavated in-situ								<30
10/25/201 L46 4/18/201 10/25/201 10/25/201 L48 4/18/201 L50 4/18/201 L50 4/18/201 L52 4/18/201 SW1 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW24 4/17/201 SW25 4/17/201 SW24 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW31 4/17/201 SW32 4/18/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW34 4/18/201 SW41 4/18/201 SW41 4/18/201		excavated							695	700
Lise 10/25/201 L48 4/18/201 L50 4/18/201 L52 4/18/201 L52 4/18/201 L54 4/18/201 SW1 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW24 4/17/201 SW24 4/17/201 SW24 4/17/201 SW34 4/17/201 SW34 4/18/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW41 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 <td< td=""><td></td><td>in-situ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><30</td></td<>		in-situ								<30
L48 4/18/201 L50 4/18/201 D/075/201 L52 J/18/201 L54 J/17/201 L52 SW1 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW24 4/17/201 SW22 4/17/201 SW22 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW30 4/17/201 SW31 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW41 4/18/201 SW42 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 <td< td=""><td></td><td>excavated in-situ</td><td><0.098</td><td><0.049</td><td><4.9</td><td><8.2</td><td><41</td><td><41</td><td>738</td><td>760 <30</td></td<>		excavated in-situ	<0.098	<0.049	<4.9	<8.2	<41	<41	738	760 <30
150 4/18/201 10/25/201 10/25/201 152 4/18/201 SW1 4/17/201 SW2 4/17/201 SW3 4/17/201 SW3 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW2 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW31 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW33 4/18/201 SW43 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45		excavated							349	
10/25/201 10/25/201 152 4/18/201 154 4/17/201 10/25/201 10/25/201 SW3 4/17/201 SW20 4/17/201 SW20 4/17/201 SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW29 4/17/201 SW30 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW35 4/18/201 SW41 4/18/201 SW41 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201		excavated	<0.098	<0.049	<4.9	<9.1	<45	<45	897	720
L54 4/18/201 SW1 4/17/201 SW2 4/17/201 J0/25/201 3/7/201 SW3 4/17/201 SW2 4/17/201 SW2 4/17/201 SW20 4/17/201 SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW20 4/17/201 SW31 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW43 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46		in-situ								<30
SW1 4/17/201 SW2 10/12/201 SW2 10/12/201 SW3 4/17/201 SW4 4/17/201 SW2 4/17/201 SW21 4/17/201 SW22 4/17/201 SW22 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW31 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW36 4/18/201 SW41 4/18/201 SW41 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45		excavated excavated							738 435	
SW2 4/17/201 10/25/201 SW3 4/17/201 SW4 4/17/201 SW21 4/17/201 SW22 4/17/201 SW22 4/17/201 SW22 4/17/201 SW22 4/17/201 SW22 4/17/201 SW24 4/17/201 SW25 4/17/201 SW25 4/17/201 SW26 4/17/201 SW28 4/17/201 SW30 4/17/201 SW33 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW43 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201		in-situ								140
10/25/201 SW3 4/17/201 SW4 4/17/201 SW20 4/17/201 SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW28 4/17/201 SW28 4/17/201 SW29 4/17/201 SW29 4/17/201 SW30 4/17/201 SW33 4/17/201 SW33 4/17/201 SW33 4/17/201 SW33 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201		in-situ								930
SW4 4/17/2011 SW20 4/17/2011 SW21 4/17/2011 SW22 4/17/2011 SW23 4/17/2011 SW24 4/17/2011 SW25 4/17/2011 SW24 4/17/2011 SW25 4/17/2011 SW26 4/17/2011 SW27 4/17/2011 SW28 4/17/2011 SW29 4/17/2011 SW29 4/17/2011 SW29 4/17/2011 SW30 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW41 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201	8	in-situ								<30
SW20 4/17/2011 SW21 4/17/2011 SW21 4/17/2011 SW223 4/17/2011 SW24 4/17/2011 SW25 4/17/2011 SW25 4/17/2011 SW26 4/17/2011 SW27 4/17/2011 SW28 4/17/2011 SW29 4/17/2011 SW30 4/17/2011 SW31 4/17/2011 SW33 4/17/2011 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW41 4/18/201 SW42 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201		in-situ in-situ							363	230 100
SW21 4/17/201 SW22 4/17/201 SW23 4/17/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW26 4/17/201 SW27 4/17/201 SW29 4/17/201 SW30 4/17/201 SW31 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW35 4/18/201 SW34 4/18/201 SW41 4/18/201 SW41 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201 SW46 4/18/201 SW47 4/18/201 SW46 4/18/201		in-situ							320	100
SW23 4/17/2011 10/25/201 SW24 4/17/2011 SW25 SW26 4/17/2011 SW26 SW26 4/17/2011 SW27 SW27 4/17/2011 SW28 SW29 4/17/2011 SW31 SW31 4/17/2011 SW33 SW32 4/17/2011 SW33 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW33 4/18/201 SW34 4/18/201 SW41 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201		in-situ							464	120
SW23 10/25/201 SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW30 4/17/201 SW31 4/17/201 SW32 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW36 4/18/201 SW34 4/18/201 SW41 4/18/201 SW42 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201 SW47 4/18/201 SW47 4/18/201		in-situ								230
SW24 4/17/201 SW25 4/17/201 SW26 4/17/201 SW27 4/17/201 SW28 4/17/201 SW29 4/17/201 SW29 4/17/201 SW30 4/17/201 SW30 4/17/201 SW33 4/17/201 SW33 4/17/201 SW33 4/17/201 SW33 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW39 4/18/201 SW41 4/18/201 SW42 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201		in-situ in-situ							926	920 <30
SW26 4/17/2011 SW27 4/17/2011 SW28 4/17/2011 SW29 4/17/2011 10/25/2011 10/25/2011 SW30 4/17/2011 SW31 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW40 4/18/201 SW41 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201 SW45 4/18/201		in-situ							320	400
SW27 4/17/2011 SW28 4/17/2011 SW29 4/17/2011 SW20 10/25/201 SW30 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW33 4/17/2011 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW38 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 1/0/25/201 SW44 1/18/201 SW45 4/18/201 SW44 1/18/201 SW44 4/18/201 SW45 4/18/201	8 sidewall	in-situ							421	150
SW28 4/17/201 SW29 10/12/201 SW30 4/17/201 SW31 4/17/201 SW31 4/17/201 SW33 4/17/201 SW33 4/17/201 SW34 4/18/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW44 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201		in-situ							320	88
SW29 4/17/2011 10/25/201 SW30 4/17/2011 SW31 4/17/2011 SW331 4/17/2011 SW332 4/17/2011 SW333 4/17/2011 SW334 4/18/201 SW354 4/18/201 SW354 4/18/201 SW364 4/18/201 SW39 4/18/201 SW40 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 10/25/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201		in-situ in-situ							233 941	110 500
SW29 10/25/201 SW30 4/17/2011 SW31 4/17/2011 SW32 4/17/2011 SW33 4/17/2011 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW39 4/18/201 SW43 4/18/201 SW44 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201 SW46 4/18/201	2	in-situ							637	640
SW31 4/17/201 SW32 4/17/201 SW32 4/17/201 SW33 4/17/201 SW33 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW38 4/18/201 SW44 4/18/201 SW43 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201 SW46 4/18/201	.8	in-situ								<30
SW32 4/17/201 SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW38 4/18/201 SW39 4/18/201 SW39 4/18/201 SW44 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201 SW46 4/18/201		in-situ								510
SW33 4/17/201 SW34 4/18/201 SW35 4/18/201 SW35 4/18/201 SW37 4/18/201 SW38 4/18/201 SW39 4/18/201 SW40 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 10/25/201 SW45 4/18/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201 SW46 4/18/201		in-situ in-situ							580 493	310 510
SW34 4/18/201 SW35 4/18/201 SW36 4/18/201 SW37 4/18/201 SW38 4/18/201 SW39 4/18/201 SW40 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201		in-situ							435	630
SW36 4/18/201 SW37 4/18/201 SW38 4/18/201 SW39 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201	7 sidewall	in-situ							796	500
SW37 4/18/201 SW38 4/18/201 SW39 4/18/201 SW40 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 4/18/201 SW43 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201 SW47 4/18/201		in-situ							811	580
SW38 4/18/201 SW39 4/18/201 SW40 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 4/18/201 SW43 4/18/201 SW44 4/18/201 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW46 4/18/201		in-situ in-situ							984 233	80 71
SW39 4/18/201 SW40 4/18/201 SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201		in-situ							536	500
SW41 4/18/201 SW42 4/18/201 SW43 4/18/201 10/25/201 5 SW44 4/18/201 SW44 4/18/201 SW45 4/18/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201	7 sidewall	in-situ							681	530
SW42 4/18/201 SW43 4/18/201 10/25/203 4/18/201 SW44 4/18/201 10/25/203 10/25/203 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201		in-situ								240
SW43 4/18/201 10/25/201 10/25/201 SW44 4/18/201 10/25/201 10/25/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201		in-situ in-situ							190	170 100
SW43 10/25/201 SW44 4/18/201 10/25/201 10/25/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201	7	in-situ							912	800
3W44 10/25/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201		in-situ								<30
10/25/201 SW45 4/18/201 SW46 4/18/201 SW47 4/18/201		in-situ							897	820
SW46 4/18/201 SW47 4/18/201	.8	in-situ in-situ							637	<30 490
SW47 4/18/201		in-situ							363	490 130
JvV4/	7	in-situ							969	1100
10/25/201	.8 sidewall	in-situ								<30
SW48 4/18/201		in-situ							219	170
SW49 4/18/201 SW50 4/18/201		in-situ in-situ							406 897	130 250
SW50 4/18/201 SW51 4/18/201		in-situ							334	250 110
SW52 4/18/201		in-situ							508	180
SW53 4/18/201	7 sidewall	in-situ							233	110
SW54 4/18/201 SW55 4/18/201		in-situ in-situ					: :		190 262	250 200

			CI-
Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Laboratory mg/Kg
NMOCD RRA			
Inlet	4/19/2017		660
Slug #1	4/19/2017		770
Slug #2	4/19/2017		730

Zack McCormick Sample Summary Table Con't

•

APPENDIX A FORM C141

:

11.0 · · · · · · · · ·

1

ŧ

3

1

RECEIVED

							MAN	111	2018			
District I 1625 N. French	Dr., Hobbs, N	NM 88240	State of New Mexico					Form C-141				
District II 811 S, First St.,				Energy Minerals and Natural RESERVENCET IL-ARTESIA O.C.D.					d April 3, 2017			
District III	-			Oil Conservation Division Submit 1 Copy to appropriate District (trict Office in				
1000 Rio Brazo: District IV				1220 South St. Francis Dr.				5.29 NMAC.				
1220 S. St. Fran	1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505											
			Rele	ease Notific	ation	and Co	orrective A	ction				
NARI	81341	51172				OPERA	TOR		🕅 Initia	al Report	П	Final Report
			irces Con	npany <u>1189</u>	21 c	ontact Case	متحليه والمعادي والمراقة والمتحد والمتحد والمتحد والمتحد والمحافظ والمحد والمحافظ			ar report	<u>ليط</u>	
Address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 Telephone No. (972) 371-5439												
Facility Name ZACH MCCORMICK FEDERAL COM #201H												
Surface Ow	ner Private	;		Mineral)wner F	ederal			API No	. 30-015-4	14247]
				IOCA		N OF RE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
D	18	24S	34E 29E	742	North	South Ente	351	West	est Ente	Eddy		
<u></u>			Latitud	e 32.223435	^o Long	itude10	4.032545°	NAD	83			
				NAT	URE	OF REL	EASE					
Type of Rele				· · · · · · · · · · · · · · · · · · ·			Release 239 bbls			Recovered		
Source of Re	lease Equips	ment Failure				Date and I 5:00 am 4-	Hour of Occurrence	æ	Date and 17-18	Hour of Di	scovery	6:00 am 4-
Was Immedi	ate Notice C	iven?		······		If YES, To			1/-10			
			Yes 🗌]No 🗋 Not R	equired							
By Whom? I			·····				lour 4-17-18 9:17					
Was a Water	course Read		Yes 🕅	1 No		If YES, Vo	olume Impacting t	the Wate	rcourse.			
	<u> </u>			-		<u> </u>						
If a Watercou	irse was imp	pacted, Descr	the Fully.	•							*	. [
											•	
Describe Cau	use of Proble	am and Deme	dial Actio	n Taken *						<u></u>		•
					n down	the road. The	n crossed over in	to the ir	rigation di	tch east of	he road	All standing
fluids were v	acummed u	p and sent for	r disposal.	A berm was adde	d to the	east side of t	he road.					·
						<u> </u>			<u> </u>			
Describe Are	a Affected a	and Cleanup	Action Tal	ken.*								
SMA will de	lineate and s	submit a worl	k plan for	approval of remed	liation a	ctions.					:	
1												
I hereby cert	ify that the i	nformation g	iven abov	e is true and comp	lete to t	he best of my	knowledge and u	indersta	nd that pur	suant to NM	AOCD r	ules and
regulations a	Il operators	are required to	to report a	nd/or file certain i	release n	otifications a	nd perform correct narked as "Final R	ctive act	ions for re	leases which lieve the on	h may e erstor o	ndanger f liability
should their of	operations h	ave failed to	adequately	investigate and i	remediat	e contaminat	ion that pose a thi	reat to g	ound wate	r, surface v	vater, hi	iman health
				ptance of a C-141	report d	oes not reliev	ve the operator of	respons	ibility for o	compliance	with an	y other
federal, state	, or local lay	ws and/or reg	ulations.					CEDI			ON	
<u>OIL CONSERVATION DIVISION</u>												
Signature:						Siznad	By Z	Als .	Sam.	6. m		
Printed Nam	ed Name: Casey Snow				Approved by	Environmental S	pecialis	<u>t: 7 7 7</u>	<u>~</u>			
Title: Manag	er Regulator	ry, Environm	ental, & S	afety		Approval Da		2	Expiration	Date: /	<u>IH</u>	
E-mail Addr	ess: csnow@	Imatadorreso	urces.com	l	1	Conditions o	of Approval:		1	A		
							HODINA	hnh	bd	Attache	") <i>D</i> I	01/142
Date:			Phone	<u>: (972) 371-5439</u>	<u> </u>		VEC/W/	MI	\mathcal{U}		44	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/11/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 3RP-4742 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>6/11/2018</u>. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

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

• Composite sampling is not generally allowed.

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

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

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

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

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

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

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Received by OCD: 1/12/2023 1:44:17 PM

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

State of New Mexico **Energy Minerals and Natural Resources Department**

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

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Page 19 of 161

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Resources	OGRID: 228937
Contact Name: John Hurt	Contact Telephone: 972-371-5200
Contact email: Jhurt@matadorresources.com	Incident # (assigned by OCD) 2RP4742/nAB1813451123
Contact mailing address: 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	

Location of Release Source

Latitude 32.223435

Longitude

-104.032545 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Zach McCormick Federal Com #201 H	Site Type: Gas Well			
Date Release Discovered: 4/17/18	API# (if applicable) 30-015-44247			

Unit Letter	Section	Township	Range	County
D	18	24S	29E	EDDY

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 239	Volume Recovered (bbls) 120
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release A road crossing for a la	y flat has failed	
A road crossing for a la	iy hat nose failed	

Teormed-BAOCD: 1/12/2	023 1:44:17 PN tate of New Mexico
Page 2	Oil Conservation Division

Incident ID	Page 20 of 16
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls
🛛 Yes 🗌 No	
· · · · · · · · · · · · · · · · · · ·	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? D District II on 4/17/18 via email

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: John Hurt Title: RES Specialist

Date: 11/8/18

email: Jhurt@matadorresources.com Telephone: 972-371-5200

OC]	D O	nly

Signature:

Received by:

Date:

Received-by OCD: 1/12/2023 1:44:17 PM tate of New Mexico

Page 3

Oil Conservation Division

Incident ID	NAB1813451123
District RP	
Facility ID	-
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🛛 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- 🛛 Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/12 Page 4	2/2023 1:44:17 PAtate of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	NAB1813451123 ^{2 of 10}
regulations all operator public health or the en- failed to adequately inv addition, OCD accepta and/or regulations. Printed Name: John Signature:	e information given above is true and complete to the b s are required to report and/or file certain release notif vironment. The acceptance of a C-141 report by the O vestigate and remediate contamination that pose a threa nce of a C-141 report does not relieve the operator of r Hurt Title RES Specialist	ications and perform co CD does not relieve the at to groundwater, surfac	rrective actions for rele operator of liability sh ce water, human health iance with any other fe	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:	Jocelyn Harimon	Date:01/	/12/2023	

Page 5 Oil Conservation Division

Incident ID	NAB18134511230 16
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Hurt Title: RES Specialist

Date: 1/8/18

Signature:

email: Jhurt@matadorresources.com Telephone: 972-371-5200

OCD Only

Received by: Jocelyn Harimon

Date: 01/12/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved	oy: Ashley Maxwell	Date:	3/20/2023
Printed Name:	Ashley Maxwell	Title:	Environmental Specialist

APPENDIX B NMOSE WELLS REPORT

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD h been repla O=orphan C=the file	aced, ed,	(qua	arte	ers a	are 1	=NW	2=NE 3	3=SW 4=SE)				
water right file.)	closed)	_	(qua	arte	ers a	are s	malles	st to lar	gest) (N	AD83 UTM in me	eters)	(In feet)	
	PO Sul		G		Q							Depth	Depth	Water
POD Number	Code bas		-						Х	Y	Distance	Well	Water	Column
<u>C 00983</u>	С	EC) 4	4	4	12	24S	28E	591080	3565885* 🌍	284	92	40	52
<u>C 00618</u>	С	ED) 3	3 4	4	12	24S	28E	590880	3565885* 🌍	391	80	40	40
<u>C 00329</u>	С	ED) 2	2 1	2	13	24S	28E	590682	3565677* 🌍	483	95	30	65
<u>C 00684</u>	CU	B EC) 2	2 1	2	13	24S	28E	590682	3565677* 🌍	483	95	40	55
<u>C 01154</u>	С	ED) 2	2 1	2	13	24S	28E	590682	3565677* 🌍	483	95	50	45
<u>C 02713</u>	CU	B EC) 4	4	1	16	24S	29E	591633	3565944 🌍	577	230	18	212
<u>C 00750</u>	CU	B EC) 1	2	2 4	13	24S	28E	590898	3564871* 🌍	786	110		
<u>C 00381</u>	C CU	B EC) 3	3 2	2 3	07	24S	29E	591682	3566297* 🌍	860	2797		
<u>C 00349</u>	C CU	B EC)	1	3	18	24S	29E	591401	3564773* 🌍	873	2734		
<u>C 00464</u>	CU	B EC) 2	2 2	2 1	13	24S	28E	590277	3565674* 🌍	886	111	28	83
C 00903	С	ED)	2	2 1	13	24S	28E	590178	3565575* 🌍	983	57	30	27
<u>C 01747</u>	CU	B EC)			12	24S	28E	590367	3566577* 🌍	1249	176	139	37
<u>C 00354</u>	C CU	B EC)	4	4	13	24S	28E	591005	3564367* 🌍	1255	2739		
C 00353	C CU	B EC)	3	3 4	13	24S	28E	590603	3564367* 🌍	1364	2726		
<u>C 00738</u>	CU	B EC) 3	3 1	1	13	24S	28E	589673	3565472* 🌍	1494	125	12	113
										Avera	ge Depth to	Water:	42	feet
											Minimum	Depth:	12	feet
											Maximum	Depth:	139	feet
Record Count: 15				_										
UTMNAD83 Radius	Search (in m	neters):												
	100.00	_					0.54		20	Destine	4050			

Easting (X): 591160.88

Northing (Y): 3565612.63

Radius: 1650

*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.

Page 25 of 161

APPENDIX C NRCS SOIL MAP & REPORT

Received by OCD: 1/12/2023 1:44:17 PM



USDA Natural Resources Conservation Service Released to Imaging: 3/20/2023 8:01:10 AM

Web Soil Survey National Cooperative Soil Survey 10/9/2018 Page 1 of 3

MAP L	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI) Soils Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points	 Spoil Area Stony Spot Very Stony Spot Wet Spot Other Special Line Features 	The soil surveys that comprise your AOI were mapped at 1:20,000. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
Special Pint FeaturesImage: BiowoutBorrow PitImage: BiowoutClay SpotImage: Clay SpotClosed DepressionImage: Clay SpotGravel PitImage: Clay SpotClay SpotImage: Clay SpotSaline SpotImage: Clay SpotSinkholeImage: Clay SpotSilde or SlipImage: Clay SpotSodic Spot	Water Features Streams and Canals Transportation H Rails Interstate Highways US Routes Hajor Roads Local Roads Background Aerial Photography	 Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data a of the version date(s) listed below. Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Dec 31, 2009—Sep 17, 2017 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

USDA Natural Resources Conservation Service Released to Imaging: 3/20/2023 8:01:10 AM

.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
Aa	Anthony sandy loam, 0 to 1 percent slopes	174.0	15.5%		
Ah	Anthony sandy loam, 0 to 1 percent slopes	125.8	11.2%		
Ak	Arno-Harkey complex, saline, 0 to 1 percent slopes	78.4	7.0%		
Ao	Atoka loam, 0 to 1 percent slopes	22.3	2.0%		
At	Atoka loam, 1 to 3 percent slopes	6.3	0.6%		
Gs	Gypsum land-Cottonwood complex, 0 to 3 percent slopes	3.5	0.3%		
Hk	Harkey very fine sandy loam, 0 to 1 percent slopes	73.8	6.6%		
Kr	Karro loam, 0 to 1 percent slopes	2.4	0.2%		
Pe	Pima silt loam, 0 to 1 percent slopes	15.3	1.4%		
Rc	Reagan loam, 0 to 1 percent slopes	230.6	20.5%		
RI	Reeves loam, 0 to 1 percent slopes	45.7	4.1%		
Rn	Reeves loam, 1 to 3 percent slopes	108.5	9.7%		
Rt	Reeves loam, shallow, 0 to 1 percent slopes	12.2	1.1%		
Uo	Upton gravelly loam, 0 to 9 percent slopes	122.3	10.9%		
Up	Upton soils, 0 to 1 percent slopes	36.3	3.2%		
Ut	Upton soils, 1 to 3 percent slopes	32.8	2.9%		
W	Water	32.7	2.9%		
Totals for Area of Interest		1,122.9	100.0%		



Map Unit Description: Upton soils, 0 to 1 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

Up—Upton soils, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w68 Elevation: 1,100 to 4,400 feet Mean annual precipitation: 7 to 14 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 100 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton

Setting

Landform: Ridges, fans Landform position (three-dimensional): Side slope, rise Down-slope shape: Convex Across-slope shape: Convex Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 8 inches: gravelly loam H2 - 8 to 18 inches: gravelly loam H3 - 18 to 40 inches: cemented H4 - 40 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 75 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D *Ecological site:* Shallow (R042XC025NM) *Hydric soil rating:* No

Minor Components

Atoka

Percent of map unit: Ecological site: Loamy (R042XC007NM) Hydric soil rating: No

Upton

Percent of map unit: Ecological site: Shallow (R042XC025NM) Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018



APPENDIX D LABORATORY ANALYTICAL REPORTS



April 26, 2018

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

RE: Zach McCormilk Ditch

OrderNo.: 1804A39

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 28 sample(s) on 4/19/2018 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

CLIENT: Souder, Miller & Associates

Project: Zach McCormilk Ditch

Analytical Report
Lab Order 1804A39

Date Reported: 4/26/2018

Client Sample ID: L5-0.5 Collection Date: 4/17/2018 12:05:00 PM Received Date: 4/19/2018 9:35:00 AM

Lab ID: 1804A39-001	Matrix: SOIL		Received 1	Received Date: 4/19/2018 9:35:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Chloride	1400	75	mg/Kg	50	4/24/2018 5:44:25 PM	37749	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	5			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/25/2018 4:26:57 AM	37745	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/25/2018 4:26:57 AM	37745	
Surr: DNOP	86.4	70-130	%Rec	1	4/25/2018 4:26:57 AM	37745	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/24/2018 12:50:50 PM	1 37744	
Surr: BFB	89.6	15-316	%Rec	1	4/24/2018 12:50:50 PM	1 37744	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	4/24/2018 12:50:50 PM	1 37744	
Benzene	ND	0.023	mg/Kg	1	4/24/2018 12:50:50 PM	1 37744	
Toluene	ND	0.046	mg/Kg	1	4/24/2018 12:50:50 PM	1 37744	
Ethylbenzene	ND	0.046	mg/Kg	1	4/24/2018 12:50:50 PM	1 37744	
Xylenes, Total	ND	0.092	mg/Kg	1	4/24/2018 12:50:50 PM	1 37744	
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	4/24/2018 12:50:50 PM	1 37744	

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

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 33
- 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.			Analytical Report Lab Order 1804A39 Date Reported: 4/26/2018		
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Sampl Collection	e ID: L6-2.5 Date: 4/17/2018 12:19:00 PM	1
Lab ID: 1804A39-002	Matrix: SOIL Received D			Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	rst: MRA
Chloride	980	75	mg/Kg	50 4/24/2018 5:56:50 PM	A 37749

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 2 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Iall Environmental Analysis Laboratory, I			Analytical ReportLab Order 1804A39C.Date Reported: 4/26/2018		
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Samp Collection	le ID: L8 Date: 4/17/2018 12:40:00 PM	М
Lab ID: 1804A39-003	Matrix: SOIL Received D			Date: 4/19/2018 9:35:00 AM	[
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	3200	150	mg/Kg	100 4/24/2018 6:09:14 P	M 37749

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
- % 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 3 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
Analytical Report

Lab Order 1804A39 Date Reported: 4/26/2018

CLIENT:Souder, Miller & AssociatesProject:Zach McCormilk DitchLab ID:1804A39-004	Matrix:	SOIL		Date: 4/1	17/2018 12:55:00 PM 19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	1100	30	mg/Kg	20	4/23/2018 9:26:21 PM	37749
EPA METHOD 8015M/D: DIESEL RANG		6			Analyst	TOM
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	4/25/2018 4:50:20 AM	37745
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	4/25/2018 4:50:20 AM	37745
Surr: DNOP	90.3	70-130	%Rec	1	4/25/2018 4:50:20 AM	37745
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/24/2018 1:14:07 PM	37744
Surr: BFB	87.7	15-316	%Rec	1	4/24/2018 1:14:07 PM	37744
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	4/24/2018 1:14:07 PM	37744
Benzene	ND	0.024	mg/Kg	1	4/24/2018 1:14:07 PM	37744
Toluene	ND	0.048	mg/Kg	1	4/24/2018 1:14:07 PM	37744

0.048

0.096

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

4/24/2018 1:14:07 PM

4/24/2018 1:14:07 PM

4/24/2018 1:14:07 PM

37744

37744

37744

ND

ND

98.7

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

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- 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
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

*

Project:

CLIENT: Souder, Miller & Associates

Zach McCormilk Ditch

Analytical Report

Lab Order 1804A39 Date Reported: 4/26/2018

Client Sample ID: L20-3
Collection Date: 4/17/2018 1:15:00 PM
Received Date: 4/19/2018 9:35:00 AM

Lab ID: 1804A39-005	Matrix: SOIL		Received	Received Date: 4/19/2018 9:35:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Chloride	90	30	mg/Kg	20	4/23/2018 11:05:35 PM	1 37755	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	4/25/2018 5:13:48 AM	37745	
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/25/2018 5:13:48 AM	37745	
Surr: DNOP	88.3	70-130	%Rec	1	4/25/2018 5:13:48 AM	37745	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/24/2018 1:37:25 PM	37744	
Surr: BFB	91.7	15-316	%Rec	1	4/24/2018 1:37:25 PM	37744	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	4/24/2018 1:37:25 PM	37744	
Benzene	ND	0.025	mg/Kg	1	4/24/2018 1:37:25 PM	37744	
Toluene	ND	0.049	mg/Kg	1	4/24/2018 1:37:25 PM	37744	
Ethylbenzene	ND	0.049	mg/Kg	1	4/24/2018 1:37:25 PM	37744	
Xylenes, Total	ND	0.099	mg/Kg	1	4/24/2018 1:37:25 PM	37744	
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	4/24/2018 1:37:25 PM	37744	

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysi		Analytical Report Lab Order 1804A39 Date Reported: 4/26/2018			
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Samp	le ID: L21 Date: 4/17/2018 1:45:00 PM	
Lab ID: 1804A39-006	Matrix:	SOIL	00110011011	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	3000	150	mg/Kg	100 4/24/2018 6:46:26 P	M 37755

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

Gasoline Range Organics (GRO)

Methyl tert-butyl ether (MTBE)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report Lab Order 1804A39

Date Reported: 4/26/2018

4/24/2018 2:00:41 PM

4/24/2018 2:00:41 PM

37744

37744

CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L24	4	
Project: Zach McCormilk Ditch			Collection I	Date: 4/1	7/2018 2:00:00 PM	
Lab ID: 1804A39-007	Matrix: SOIL Received I			Date: 4/19/2018 9:35:00 AM		
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	100	30	mg/Kg	20	4/23/2018 11:30:25 PM	37755
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	6			Analys	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/25/2018 5:37:09 AM	37745
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/25/2018 5:37:09 AM	37745
Surr: DNOP	91.3	70-130	%Rec	1	4/25/2018 5:37:09 AM	37745
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	: NSB

ND

89.7

ND

ND

ND

ND

ND

98.7

0.092

80-120

mg/Kg

%Rec

			· · · · · · · · · · · · · · · · · · ·	
4.6	mg/Kg	1	4/24/2018 2:00:41 PM	37744
15-316	%Rec	1	4/24/2018 2:00:41 PM	37744
			Analyst:	NSB
0.092	mg/Kg	1	4/24/2018 2:00:41 PM	37744
0.023	mg/Kg	1	4/24/2018 2:00:41 PM	37744
0.046	mg/Kg	1	4/24/2018 2:00:41 PM	37744
0.046	mg/Kg	1	4/24/2018 2:00:41 PM	37744

1

1

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

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

*

Analytical Report

Lab Order 1804A39 Date Reported: 4/26/2018

CLIENT: Souder, Miller & Associates			Client Sample ID: L28
Project:	Zach McCormilk Ditch		Collection Date: 4/17/2018 3:00:00 PM
Lab ID:	1804A39-008	Matrix: SOIL	Received Date: 4/19/2018 9:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	630	30	mg/Kg	20	4/23/2018 11:42:49 PM	1 37755
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	6			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/25/2018 6:00:30 AM	37745
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/25/2018 6:00:30 AM	37745
Surr: DNOP	92.1	70-130	%Rec	1	4/25/2018 6:00:30 AM	37745
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/24/2018 6:16:54 PM	37744
Surr: BFB	86.7	15-316	%Rec	1	4/24/2018 6:16:54 PM	37744
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	4/24/2018 6:16:54 PM	37744
Benzene	ND	0.024	mg/Kg	1	4/24/2018 6:16:54 PM	37744
Toluene	ND	0.047	mg/Kg	1	4/24/2018 6:16:54 PM	37744
Ethylbenzene	ND	0.047	mg/Kg	1	4/24/2018 6:16:54 PM	37744
Xylenes, Total	ND	0.094	mg/Kg	1	4/24/2018 6:16:54 PM	37744
Surr: 4-Bromofluorobenzene	96.5	80-120	%Rec	1	4/24/2018 6:16:54 PM	37744

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
- % 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 8 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1804A39

Date Reported: 4/26/2018

	HOD 300.0: ANIONS				Analys	t: MRA
Analyses		Result	PQL Qu	al Units	DF Date Analyzed	Batch
Lab ID:	1804A39-009	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Project:	Zach McCormilk Ditch			Collection	Date: 4/17/2018 3:30:00 PM	
CLIENT:	Souder, Miller & Associates			Client Samp	ble ID: L32	

					71101950	
Chloride	200	30	mg/Kg	20	4/23/2018 11:55:14 PM	37755
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	том
Diesel Range Organics (DRO)	ND	8.1	mg/Kg	1	4/25/2018 6:23:55 AM	37745
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	4/25/2018 6:23:55 AM	37745
Surr: DNOP	91.3	70-130	%Rec	1	4/25/2018 6:23:55 AM	37745
EPA METHOD 8015D: GASOLINE RANG				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/24/2018 6:40:10 PM	37744
Surr: BFB	86.7	15-316	%Rec	1	4/24/2018 6:40:10 PM	37744
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	4/24/2018 6:40:10 PM	37744
Benzene	ND	0.023	mg/Kg	1	4/24/2018 6:40:10 PM	37744
Toluene	ND	0.046	mg/Kg	1	4/24/2018 6:40:10 PM	37744
Ethylbenzene	ND	0.046	mg/Kg	1	4/24/2018 6:40:10 PM	37744
Xylenes, Total	ND	0.093	mg/Kg	1	4/24/2018 6:40:10 PM	37744
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	4/24/2018 6:40:10 PM	37744

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 9 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804A39 Date Reported: 4/26/20	18
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Samp Collection	e ID: SW1 Date: 4/17/2018 12:15:00 PM	
Lab ID: 1804A39-010	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	140	30	mg/Kg	Analyst 20 4/24/2018 12:07:39 AM	

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
- % 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 33 J
- Р 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 1804A39 Date Reported: 4/26/2	018
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch Lab ID: 1804A39-011	Matrix:	SOIL	001100101	le ID: SW2 Date: 4/17/2018 12:10:00 PM Date: 4/19/2018 9:35:00 AM	[
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	930	30	mg/Kg	Analy 20 4/24/2018 12:44:52 A	st: MRA M 37755

- * 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 33
- 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 1804A39 Date Reported: 4/26/2	
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch Lab ID: 1804A39-012	Matrix:	SOIL	00110011011	e ID: SW3 Date: 4/17/2018 12:25:00 PM Date: 4/19/2018 9:35:00 AM	-
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	230	30	mg/Kg	Analy 20 4/24/2018 12:59:02 F	vst: MRA PM 37760

- * 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 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804A39 Date Reported: 4/26/20	18
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Samp	le ID: SW4 Date: 4/17/2018 12:31:00 PM	
Lab ID: 1804A39-013	Matrix:	SOIL	001100101	Date: 4/17/2018 12:51:00 FM Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	MRA
Chloride	100	30	mg/Kg	20 4/24/2018 1:11:27 PM	37760

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 33
- 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 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L5-SW	
Project: Zach McCormilk Ditch			Collection I	Date: 4/17/2018 12:47:00 PM	[
Lab ID: 1804A39-014	Matrix:	SOIL	Received I	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	830	30	mg/Kg	20 4/24/2018 2:13:29 PM	1 37760

Qualifiers:	:
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 33
- 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 1804A39 Date Reported: 4/26/2	
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW20	
Project: Zach McCormilk Ditch			Collection 1	Date: 4/17/2018 3:25:00 PM	
Lab ID: 1804A39-015	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	110	30	mg/Kg	20 4/24/2018 2:25:53 PM	M 37760

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
- % 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 15 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl		
Project:Zach McCormilk DitchLab ID:1804A39-016	Matrix:	SOIL	00110011011	Date: 4/17/2018 3:35:00 PM Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	120	30	mg/Kg	20 4/24/2018 2:38:18 PM	/ 37760

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
- % 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 16 of 33 J
- Р 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 1804A39 Date Reported: 4/26/2	018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW22	
Project: Zach McCormilk Ditch			Collection I	Date: 4/17/2018 4:20:00 PM	
Lab ID: 1804A39-017	Matrix:	SOIL	Received 1	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: MRA
Chloride	230	30	mg/Kg	20 4/24/2018 2:50:42 PM	37760

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
- % 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 17 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates			Client Samp		
Project: Zach McCormilk Ditch			Collection	Date: 4/17/2018 4:27:00 PM	
Lab ID: 1804A39-018	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	920	30	mg/Kg	20 4/24/2018 3:03:07 PM	M 37760

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
- % 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 18 of 33 J
- Р 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 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Samp	le ID: SW24 Date: 4/17/2018 5:03:00 PM	
Lab ID: 1804A39-019	Matrix:	SOIL	00110011011	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	400	30	mg/Kg	20 4/24/2018 3:15:31 PM	A 37760

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 19 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Samp Collection	le ID: SW25 Date: 4/17/2018 5:15:00 PM	
Lab ID: 1804A39-020	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	150	30	mg/Kg	20 4/24/2018 4:17:33 PN	A 37760

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 33
- 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 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW26	
Project: Zach McCormilk Ditch			Collection 1	Date: 4/17/2018 5:30:00 PM	
Lab ID: 1804A39-021	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	88	30	mg/Kg	20 4/24/2018 4:29:58 PM	/ 37760

- * 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 21 of 33
- 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 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates Project: Zach McCormilk Ditch			Client Sampl	le ID: SW27 Date: 4/17/2018 5:45:00 PM	
Lab ID: 1804A39-022	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	rst: MRA
Chloride	110	30	mg/Kg	20 4/24/2018 4:42:22 PM	A 37760

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 22 of 33
- 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 1804A39 Date Reported: 4/26/2	018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW28	
Project: Zach McCormilk Ditch			Collection 1	Date: 4/17/2018 6:05:00 PM	
Lab ID: 1804A39-023	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	500	30	mg/Kg	20 4/24/2018 4:54:47 PM	1 37760

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
- % 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 23 of 33 J
- Р 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 1804A39 Date Reported: 4/26/2	018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW29	
Project: Zach McCormilk Ditch			Collection 1	Date: 4/17/2018 6:10:00 PM	
Lab ID: 1804A39-024	Matrix:	SOIL	Received 1	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	640	30	mg/Kg	20 4/24/2018 5:07:11 PM	1 37760

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 24 of 33
- 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 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	le ID: SW30	
Project: Zach McCormilk Ditch			Collection 1	Date: 4/17/2018 6:20:00 PM	
Lab ID: 1804A39-025	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	510	30	mg/Kg	20 4/24/2018 5:19:36 PM	/ 37760

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
- % 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 limitsPage 25 of 33 J
- Р 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 1804A39 Date Reported: 4/26/2	018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW31	
Project: Zach McCormilk Ditch			Collection 1	Date: 4/17/2018 6:24:00 PM	
Lab ID: 1804A39-026	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	310	30	mg/Kg	20 4/25/2018 2:11:30 PM	1 37795

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 26 of 33
- 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 1804A39 Date Reported: 4/26/2	2018
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: SW32	
Project: Zach McCormilk Ditch			Collection	Date: 4/17/2018 6:40:00 PM	
Lab ID: 1804A39-027	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	510	30	mg/Kg	20 4/25/2018 2:23:54 PM	1 37795

Qualifiers:	1
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 27 of 33
- 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 1804A39 Date Reported: 4/26/	
CLIENT: Souder, Miller & Associates			Client Sampl		
Project: Zach McCormilk Ditch			00110011011	Date: 4/17/2018 6:47:00 PM	
Lab ID: 1804A39-028	Matrix:	SOIL	Received	Date: 4/19/2018 9:35:00 AN	1
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	630	30	mg/Kg	20 4/25/2018 3:01:08 P	M 37795

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 28 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:		der, Miller & Associates n McCormilk Ditch			
Sample ID	MB-37749	SampType: mblk	TestCode: EPA Method	l 300.0: Anions	
Client ID:	PBS	Batch ID: 37749	RunNo: 50789		
Prep Date:	4/23/2018	Analysis Date: 4/23/2018	SeqNo: 1647406	Units: mg/Kg	
Analyte Chloride		Result PQL SPK value SPK Ref \ ND 1.5	/al %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Sample ID	LCS-37749	SampType: Ics	FestCode: EPA Method	l 300.0: Anions	
Client ID:	LCSS	Batch ID: 37749	RunNo: 50789		
Prep Date:	4/23/2018	Analysis Date: 4/23/2018	SeqNo: 1647407	Units: mg/Kg	
Analyte Chloride		Result PQL SPK value SPK Ref \ 14 1.5 15.00 0		HighLimit %RPD 110	RPDLimit Qual
Sample ID			TestCode: EPA Method	l 300.0: Anions	
	PBS	Batch ID: 37755	RunNo: 50789		
Prep Date:	4/23/2018	Analysis Date: 4/23/2018	SeqNo: 1647442	Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref \	al %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-37755	SampType: Ics	TestCode: EPA Method	l 300.0: Anions	
Client ID:	LCSS	Batch ID: 37755	RunNo: 50789		
Prep Date:	4/23/2018	Analysis Date: 4/23/2018	SeqNo: 1647443	Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref \	al %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00 0	95.1 90	110	
Sample ID	MB-37760	SampType: mblk	TestCode: EPA Method	l 300.0: Anions	
Client ID:	PBS	Batch ID: 37760	RunNo: 50801		
Prep Date:	4/24/2018	Analysis Date: 4/24/2018	SeqNo: 1648668	Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref \	al %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-37760	SampType: LCS	TestCode: EPA Method	1 300.0: Anions	
Client ID:	LCSS	Batch ID: 37760	RunNo: 50801		
Prep Date:	4/24/2018	Analysis Date: 4/24/2018	SeqNo: 1648669	Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref \	al %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
- W Sample container temperature is out of limit as specified

1804A39

26-Apr-18

WO#:

Page 29 of 33

Client: Project:		ler, Miller & Asso 1 McCormilk Ditc		es							
Sample ID	MB-37795	SampTyp	e: m l	blk	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID): 37	795	F	RunNo: 5	0849				
Prep Date:	4/25/2018	Analysis Date	e: 4/	25/2018	S	SeqNo: 1	650239	Units: mg/K	g		
Analyte Chloride		Result F	PQL 1.5		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-37795	SampTyp	e: Ic:	6	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID): 37	795	F	RunNo: 5	0849				
Prep Date:	4/25/2018	Analysis Date	e: 4	/25/2018	5	SeqNo: 1	650240	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.5	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

1804A39

26-Apr-18

WO#:

Page 30 of 33

Client: Souder,	Miller & Associates
Project: Zach Mo	cCormilk Ditch
Sample ID LCS-37745	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 37745 RunNo: 50794
Prep Date: 4/23/2018	Analysis Date: 4/24/2018 SeqNo: 1648086 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	47 10 50.00 0 93.2 70 130
Surr: DNOP	4.1 5.000 82.3 70 130
Sample ID MB-37745	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 37745 RunNo: 50794
Prep Date: 4/23/2018	Analysis Date: 4/24/2018 SeqNo: 1648087 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10 ND 50
Motor Oil Range Organics (MRO) Surr: DNOP	9.0 10.00 89.6 70 130
Sample ID LCS-37773	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 37773 RunNo: 50820
Client ID: LCSS Prep Date: 4/24/2018	Batch ID: 37773 RunNo: 50820 Analysis Date: 4/25/2018 SeqNo: 1649509 Units: %Rec
Analyte Surr: DNOP	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 4.7 5.000 94.4 70 130
Sample ID MB-37773	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 37773 RunNo: 50820
Prep Date: 4/24/2018	Analysis Date: 4/25/2018 SeqNo: 1649510 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.7 10.00 96.6 70 130
Sample ID LCS-37772	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 37772 RunNo: 50794
Prep Date: 4/24/2018	Analysis Date: 4/25/2018 SeqNo: 1649793 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.1 5.000 82.1 70 130
Sample ID MB-37772	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 37772 RunNo: 50794
Prep Date: 4/24/2018	Analysis Date: 4/25/2018 SeqNo: 1649794 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.4 10.00 93.7 70 130

Qualifiers:

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

1804A39

26-Apr-18

WO#:

limita

- Page 31 of 33

	, Miller & Associates IcCormilk Ditch			
Sample ID MB-37744	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 37744	RunNo: 50797		
Prep Date: 4/23/2018	Analysis Date: 4/24/2018	SeqNo: 1648227	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qu	ual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 880 1000	87.8 15	316	
Sample ID LCS-37744	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 37744	RunNo: 50797		
Prep Date: 4/23/2018	Analysis Date: 4/24/2018	SeqNo: 1648228	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qu	ual
Gasoline Range Organics (GRO) Surr: BFB	275.025.009801000	0 109 75.9 98.0 15	131 316	

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

1804A39

26-Apr-18

WO#:

Page 32 of 33

W

Client: Soude	er, Miller & A	ssociate	es							
Project: Zach	McCormilk D	litch								
Sample ID MB-37744	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: 37	744	F	unNo: 5	0797				
Prep Date: 4/23/2018	Analysis E	Date: 4/	24/2018	S	eqNo: 1	648262	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	0.97		1.000		97.1	80	120			
Sample ID LCS-37744	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	h ID: 37	744	F	unNo: 5	0797				
Prep Date: 4/23/2018	Analysis D	Date: 4/	24/2018	S	eqNo: 1	648263	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.94	0.10	1.000	0	94.2	70.1	121			
Benzene	0.99	0.025	1.000	0	98.8	77.3	128			
Toluene	1.0	0.050	1.000	0	102	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127			
Xylenes, Total	3.2	0.10	3.000	0	106	81.6	129			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

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

1804A39

26-Apr-18

WO#:

Page 33 of 33

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 H Website: www.hall	4901 Hawkins N Juerque, NM 8710 FAX: 505-345-410	⁷⁹ San	nple Log-In Cl	heck List	
Client Name: SMA-CARLSBAD	Work Order Number:	1804A39	- <u>.</u>	RcptNo:	1	
Received By: Eric Suina 4/	19/2018 9:35:00 AM		E-l-S			
Completed By: Isaiah Ortiz 4/ Reviewed By: DDS CBSENM	19/2018 9:49:38 AM VN9NB		IG	-		
<u>Chain of Custody</u>						
1. Is Chain of Custody complete?	,	Yes 🔽	No 🗌	Not Present		
2. How was the sample delivered?	<u>(</u>	Courier				
Log In 3. Was an attempt made to cool the samples?	١	res 🗹	No 🗌	na 🗔		
4. Were all samples received at a temperature of >	0° C to 6.0°C	res 🗹	No 🗌	NA 🗆		
5. Sample(s) in proper container(s)?	Y	res 🗹	No 🗌			
6. Sufficient sample volume for indicated test(s)?	Y	es 🔽	No 🗌			
7. Are samples (except VOA and ONG) properly pre	eserved? Y	es 🗹	No 🗌			
8. Was preservative added to bottles?		es 🗌	No 🗹	NA 🗌		
9. VOA vials have zero headspace?	. Y	es 🗌	No 🗌	No VOA Vials 🔽	_	
10. Were any sample containers received broken?	Y	′es 🗆	No 🗹	# of preserved		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Y	es 🗹	No 🗆	bottles checked	12 unless noted)	
12. Are matrices correctly identified on Chain of Custo	ody? Ye	es 🔽	No 🗌	Adjusted?		
13. Is it clear what analyses were requested?	Y	es 🗹	No 🗌	χ		
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Y	es 🔽	No 🗆	Checked by:		
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this o	rder? Y	es 🗀	No 🗌	NA 🗹		
Person Notified: By Whom: Regarding: Client Instructions:	Date:	eMail 🗌 Phon	e 🗌 Fax	In Person		
16. Additional remarks: 17. <u>Cooler Information</u> <u>Cooler No</u> Temp °C Condition Seal In 1 4.7 Good Yes	tact Seal No Sea	I Date Sig	ned By			
Page 1 of 1			<u> </u>	. <u></u>		

278		HALL ENVIKONMENTAL ANALVETS LAPOPATODV			Ī	5-3975 Fax 505-345-4107	Analysis Request		DS'⁺C)d'²	0728	01 { 8 8 010	10 1ete icicio (AC) (AC)	EDB (Meth 8) 2'HA9 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		×	×	×							<u> </u>	x,			
						Tel. 505-345-3975					0 / D 13)	14 14) 8 por	7PH 8015 TPH (Meth	×			X	×		X	×	k I	/			ks:	no + to Nov	ひょうい
		3		-	4	'								м + х <mark>э</mark> тв м + хэтв	X			X	メ		X	X	×				Remarks:		
	(ARush 5 day-		Const WHL					1 Dilart	ivegan ;	LCM . EM	<u>• / (-) 7 / / -) - - - - - - - - -</u>		Preservative Type 1 \$04A39	-001	600-	-003	- 604	-005	$-\omega b$	-007			010-	- DI (- Ora	Date Time	4/18/18 143	neil Dissils
	I Urn-Around 11me:	Standard		Taris MI	Project #:			Project Manager:	Arctin 1	1 MINNIN 1	Sampler/P W/4	Temnel		Container Prese Type and # Ty	402.											1	Received by:	No Lot	
•	Chain-of-Custody Record	Carkbad			01.1.0	UNHIE.	*			Level 4 (Full Validation)				Sample Request ID	25-0.5	16-25	587	61	120-3'	121	124	128 1	132	1015	CWZ	Sw3	d by:	· ~	
(ain-of-Cu	- MMS	· · · ·	dress:				ax#:	kage:	p	ion Other) 	Time Matrix	: 05 [o].	12:19	10:40	12:55	1.15	1:45	2.00	00	3:30	/5	10/:2/	+ 5r:11		the Report	2
i	U U U	Client:		Mailing Address:		1	Phone #:	email or Fax#:	QA/QC Package:	□ Standard	Accreditation			Date T	4/17/18/12:05	1/2	2	/2	1 1	15	رہ ا	3,	\sim	: [2:	12		Date: Time:	4/18/16/1430	

	RONMENTAL	ANALYSIS LABORATORY		7109	7				(N	0	<u>ل</u>	alddu B riA															
~~	Z	B B C B C B C B C B C B C B C B C B C B	moo	Albuquerque, NM 87109	Fax 505-345-4107	st			(AC		im92) 0728															
2	Ň.	5	ental.o	dne, h	5-34	sanps			7000			8081 Pestic 8260B (VO															
N	Ξ	S	www.hallenvironmental.com	duerc	IX 50	Analysis Request), 2), 2), 2), 2), 2), 2), 2), 2), 2), 2	×	×	x	Ϋ́	X	×	K	<u>×</u>		×	×	x			
	EN	Σ.	envin	Albu	ц	nalys						ы 8 АЯЭЯ В АЯЭЯ	~	^	<u>`</u>	· ·	•				-	~~	~				
		AL	v.hall	ч Ц	975	AI		(SM	S 072	8 1	00	rɛ8) ɛ'HA٩													, c		
	HALI	Ž	www	cins N	45-39							EDB (Meth													Johon	•	
				4901 Hawkins NE	Tel. 505-345-3975		,					TPH (Metho													20	\mathcal{C}	
				901	Tel. 5							TPH 8015B													ks: Tat	20F3	
				4	•							втех + Мт втех + Мт													Remarks: MMa		
Γ							`																		<u>~</u>	<u>2</u> 10	_
	5 des	n unt		したく				ey an t			1-0-2(ch=4.	HEAL No. 1960 AZA	-013	-01 Y	-015	-010	L-10-	-018	-019	000-	100-	CE0-	- 0a3	100-	Date Time	r Date Time	- 4/1-1/12
I Time:			، بې	chomits			ager:	ustin W	mullen	× ies	emperature. 🎝 📿	Preservative Type														COUNTE	るいよ
Turn-Around Time		Droiect Name		Lach M	Project #:		Project Manager:	Au.			Sample Ten	Container Type and #	407.		1								-0		Received by:	Received by	PPP/
Chain of Custody Docord	Manchad Nevolu	NDAON			· an in ha /	*		🗆 Level 4 (Eutl Validation)				Sample Request ID	Sut	25-SW.	0×ms	JW 31	Suaz	SW 23	SW24	So as.	UN ALO	(ranc	JWAS	GWZJ.	d by:	- Chan	Ż
ن بن												Matrix	1-10-5	F										~	Relinquished by:	Relinguished by	8
aich (1111		Mailing Address:		#:	email or Fax#:	QA/QC Package:	Accreditation	5	EDD (Type)	Time	17:31	12:47	3:35	3:35	4.20	4:21	5:03	5:15	5:30	5 45	6:62	0/:0	Date: Time:	Time:	06/
•	Client:			Mailinç		Phone #:	email (QA/QC Packs	Accreditati			Date	AIT/18						 				 	r	Date:	Date	1118115

•

		AALL ENVIKONMENTAL ANALYSTS LABORATORY	,						(N ·) səlduB ılA															sport.
	ļ		5		108	~		<u> </u>							\vdash							-		• .		alytical re
) M	410			()	√ 0∧	′-im92) 0728															the an
		\$ 4		N CI	z :	hex 505-345-4107 Analysis Request				(AOV) 80828															ted on
		2 5			ין לר	505 Rec					8081 Pestici															y nota
	Ĩ	2 5			י הלר	Fax vsis	(*(05'700	' ^² ON' ^ɛ		(́⊃,́Ħ) anoinA		×	×	×											e clearl
2		ANALYSIS		www.rialienvironmental.com	ξ.	Anal					RCRA 8 Met															will be
N				Ш. М		3975		(SM			0168) s'HA9		<u> </u>				-		L					10		ed data
				ww vkine		1el. 505-345-3975		•			EDB (Metho													D	m	ntracte
			_	Have		-909-	(0)				TPH (Metho TPH 8015B													4	Y.	sub-co
				WWW.ItalieffVIrontrientat.com 4001 Hawkins NE _ Alburnioratio NM 97400	- 	lel.					BTEX + MTE	<u> </u>												ks: 7 g.	t o	. Any
											BTEX + MTE													Remarks	0	ssibility
		.			Т		, 			Г,		-												_	रा छ	his po:
	•	Z	2	HL				X		P=(*	HEAL No.	SQ	90	LC	80									Time /43		ies addimitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
	\ \(101		A V				aller		-0.74	HEA SOC	2		9	-0									Date	L /A	his serves a
	0	, hs 		3				0	R	Ġ.	é													-	Los I	ries. 1
		Kush	,	muck				Z	111	re: L	Preservative Type															aborato
	Turn-Around Time:		-	(Cl			ler:	4	34	Sample Temperature: L	^o rese													_ \	8	edited I
	L pur	ard	ame:	2			Manager:	astron	12	empe	er 1#1													Z	No	er accr
	-Aroi	□ Standard	Project Name:	Zach	sct #		sct M	T	Sampler:	ple T	Container Type and #	2	•		1									\$ ₹		to oth
	Turn		Proj	Za	Proj	l	Project		Sample On Ice	Sam	Typ.	40			ア									Received		tracted
_								(uo												_				±	<u> </u>	subcon
	p							Level 4 (Full Validation)			Sample Request ID															may be
	ы С	6			¥.			ull Va			redn														1	nental
	R	25		2				4 (Fi) le F	30	3	~	ς Σ											nviron
	g	Carlsbro						evel			amp	05000	0	30	<u>ດ</u>									`		Hall E
	Isto	Ca	-	\vdash	Ł	$\left \right $					S	3	Ś	Sc	z									:Kq p		itted to
	<u>ਹ</u>	MM				\triangleright			□ Other		Matrix	1												Relinquished by	Relinduished b	s subm
	Ģ	Les la									Με	1.20			≁				_						感	Ň
	Chain-of-Custody Record	\mathcal{I}		Mailing Address:			эх#:	kage: d	uo	ype)_	Time	6:20	10:24	10×10	10:47		ĺ							5 v	Time:	ssan
	ပြ			ig Ad		e #	or F	C Pac	ditati LAP	É Q		8	<u>e</u> .	e.	6											lf necessary
		Client:		Mailin		Phone #:	email or Fax#:	QA/QC Package:	Accreditation	EDD (Type)	Date	10	-+		7									4 8 18	Date: Date:	ŀ
	I	- 1			I		ι Ψ Ι		I ~	1-1	ļ	Å	-	1	1	1	I	I		1			ļ	₽ ₽		Ę



May 04, 2018

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

RE: Zack McCormick Ditch

OrderNo.: 1804A97

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/21/2018 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

Magnesium

Manganese

Potassium

Sodium

Strontium

B50835

B50835

B50835

B50835

B50835

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1804A97

Date Reported: 5/4/2018

CLIENT:Souder, Miller & AssociatesProject:Zack McCormick DitchLab ID:1804A97-001	Client Sample ID: InletCollection Date: 4/19/2018 1:23:00 PMMatrix: AQUEOUSReceived Date: 4/21/2018 9:40:00 AM												
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch						
SPECIFIC GRAVITY						Analyst	JRR						
Specific Gravity	1.002	0			1	4/30/2018 12:07:00 PM	R50916						
EPA METHOD 300.0: ANIONS						Analyst	MRA						
Chloride	660	50	*	mg/L	100	4/27/2018 9:24:27 AM	R50912						
Sulfate	1100	50	*	mg/L	100	4/27/2018 9:24:27 AM	R50912						
SM2320B: ALKALINITY						Analyst	JRR						
Bicarbonate (As CaCO3)	108.0	20.00		mg/L CaCO3	1	4/23/2018 4:44:05 PM	R50818						
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	4/23/2018 4:44:05 PM	R50818						
Total Alkalinity (as CaCO3)	108.0	20.00		mg/L CaCO3	1	4/23/2018 4:44:05 PM	R50818						
SM2540C MOD: TOTAL DISSOLVED S	OLIDS					Analyst	KS						
Total Dissolved Solids	3290	40.0	*D	mg/L	1	4/24/2018 4:44:00 PM	37756						
SM4500-H+B / 9040C: PH						Analyst	JRR						
рН	8.12		н	pH units	1	4/23/2018 4:44:05 PM	R50818						
EPA METHOD 200.7: DISSOLVED MET	TALS					Analyst	: pmf						
Barium	0.048	0.0020		mg/L	1	4/26/2018 3:17:51 PM	B50835						
Calcium	490	5.0		mg/L	5	4/26/2018 3:20:04 PM	B50835						
Iron	ND	0.020		mg/L	1	4/26/2018 3:17:51 PM	B50835						

110 5.0 mg/L 5 4/26/2018 3:20:04 PM 0.0060 0.0020 mg/L 4/26/2018 3:17:51 PM 1 5.6 1.0 mg/L 1 4/26/2018 3:17:51 PM 470 5.0 4/26/2018 3:20:04 PM mg/L 5 6.1 0.50 mg/L 50 4/26/2018 8:02:33 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Samula Dilutad Dua ta Matein

- 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
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
Magnesium

Manganese

Potassium

Strontium

Sodium

B50835

B50835

B50835

B50835

B50835

Analytical Report

Lab Order 1804A97

Date Reported: 5/4/2018

CLIENT: Souder, Miller & Associate Project: Zack McCormick Ditch	es		C	Client Sample I Collection Dat		g #1 9/2018 12:05:00 PM	
Lab ID: 1804A97-002	Matrix:	AQUEOUS	5	Received Dat	t e: 4/2	1/2018 9:40:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analys	: JRR
Specific Gravity	0.9998	0			1	4/30/2018 12:07:00 PM	R50916
EPA METHOD 300.0: ANIONS						Analys	: MRA
Chloride	770	50	*	mg/L	100	4/27/2018 9:50:09 AM	R50912
Sulfate	1100	50	*	mg/L	100	4/27/2018 9:50:09 AM	R50912
SM2320B: ALKALINITY						Analys	: JRR
Bicarbonate (As CaCO3)	107.7	20.00		mg/L CaCO3	1	4/23/2018 4:52:28 PM	R50818
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	4/23/2018 4:52:28 PM	R50818
Total Alkalinity (as CaCO3)	107.7	20.00		mg/L CaCO3	1	4/23/2018 4:52:28 PM	R50818
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analys	t: KS
Total Dissolved Solids	3890	100	*D	mg/L	1	4/24/2018 4:44:00 PM	37756
SM4500-H+B / 9040C: PH						Analys	: JRR
рН	7.62		н	pH units	1	4/23/2018 4:52:28 PM	R50818
EPA METHOD 200.7: DISSOLVED M	IETALS					Analys	: pmf
Barium	0.16	0.0020		mg/L	1	4/26/2018 3:22:21 PM	B50835
Calcium	480	10		mg/L	10	4/27/2018 12:52:59 PM	A50894
Iron	0.062	0.020		mg/L	1	4/26/2018 3:22:21 PM	B50835

5.0

1.0

50

0.50

0.0020

mg/L

mg/L

mg/L

mg/L

mg/L

5

1

1

4/26/2018 3:24:35 PM

4/26/2018 3:22:21 PM

4/26/2018 3:22:21 PM

50 4/26/2018 8:04:38 PM

50 4/26/2018 8:04:38 PM

110

13

510

7.4

0.029

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	I
	S	% Recovery outside of range due to dilution or matrix	

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

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1804A97

Date Reported: 5/4/2018

CLIENT: Souder, Miller & Associates Client Sample ID: Slug #2 **Project:** Zack McCormick Ditch Collection Date: 4/19/2018 12:52:00 PM Lab ID: 1804A97-003 Matrix: AQUEOUS Received Date: 4/21/2018 9:40:00 AM Result **PQL** Qual Units **DF** Date Analyzed Batch Analyses SPECIFIC GRAVITY Analyst: JRR 0 4/30/2018 12:07:00 PM R50916 Specific Gravity 1.002 1 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 730 50 mg/L 100 4/27/2018 10:15:53 AM R50912 Sulfate 50 1200 mg/L 100 4/27/2018 10:15:53 AM R50912 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 107.5 20.00 mg/L CaCO3 4/23/2018 5:01:00 PM R50818 1 Carbonate (As CaCO3) 2.000 mg/L CaCO3 4/23/2018 5:01:00 PM R50818 ND 1 Total Alkalinity (as CaCO3) 20.00 mg/L CaCO3 4/23/2018 5:01:00 PM R50818 107.5 1 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 4/24/2018 4:44:00 PM 3460 100 *D mg/L 37756 1 SM4500-H+B / 9040C: PH Analyst: JRR 4/23/2018 5:01:00 PM R50818 pН 7.99 Н pH units 1 **EPA METHOD 200.7: DISSOLVED METALS** Analyst: pmf Barium 0.088 0.0020 mg/L 1 4/26/2018 3:26:50 PM B50835 Calcium 490 5.0 mg/L 5 4/26/2018 3:29:02 PM B50835 Iron ND 0.020 mg/L 1 4/26/2018 3:26:50 PM B50835 Magnesium 110 5.0 mg/L 5 4/26/2018 3:29:02 PM B50835

Manganese	0.0053	0.0020	mg/L	1	4/26/2018 3:26:50 PM	B50835
Potassium	7.6	1.0	mg/L	1	4/26/2018 3:26:50 PM	B50835
Sodium	480	5.0	mg/L	5	4/26/2018 3:29:02 PM	B50835
Strontium	6.4	0.50	mg/L	50	4/26/2018 8:06:45 PM	B50835
EPA METHOD 8015D: GASOLINE RANGE					Analyst	AG
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	4/25/2018 7:11:58 PM	W50821
Surr: BFB	104	70-130	%Rec	1	4/25/2018 7:11:58 PM	W50821
EPA METHOD 8015M/D: DIESEL RANGE					Analyst	том
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/24/2018 8:56:54 PM	37747
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	4/24/2018 8:56:54 PM	37747
Surr: DNOP	105	77.5-161	%Rec	1	4/24/2018 8:56:54 PM	37747
EPA METHOD 8260: VOLATILES SHORT	LIST				Analyst	AG
Benzene	ND	1.0	µg/L	1	4/25/2018 7:11:58 PM	A50821
Toluene	ND	1.0	µg/L	1	4/25/2018 7:11:58 PM	A50821
Ethylbenzene	ND	1.0	µg/L	1	4/25/2018 7:11:58 PM	A50821
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	4/25/2018 7:11:58 PM	A50821
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	4/25/2018 7:11:58 PM	A50821
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	4/25/2018 7:11:58 PM	A50821

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

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
 - Н Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Oualifiers:

Analytical Report

Hall Environmental Analys	is Labora	tory, Inc.			Lab Order 1804A97 Date Reported: 5/4/20	18
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp		ug #2 19/2018 12:52:00 PM	
Lab ID: 1804A97-003	Matrix:	AQUEOUS			21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHO	RT LIST				Analys	st: AG
Xylenes, Total	ND	1.5	µg/L	1	4/25/2018 7:11:58 PM	A50821
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	4/25/2018 7:11:58 PM	A50821
Surr: Toluene-d8	101	70-130	%Rec	1	4/25/2018 7:11:58 PM	A50821

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

Project:

CLIENT: Souder, Miller & Associates

Zack McCormick Ditch

Analytical Report Lab Order 1804A97

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/4/2018

Client Sample ID: Tiger Facility Collection Date: 4/16/2018 12:00:00 PM Received Date: 4/21/2018 9:40:00 AM

Lab ID: 1804A97-004	Matrix:	AQUEOU	UEOUS Received Da			ate: 4/21/2018 9:40:00 AM					
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch				
SPECIFIC GRAVITY						Analyst	JRR				
Specific Gravity	1.077	0			1	4/30/2018 12:07:00 PM	R50916				
EPA METHOD 300.0: ANIONS						Analyst	MRA				
Chloride	92000	5000	*	mg/L	1E	4/30/2018 2:14:55 PM	R50920				
Sulfate	300	50	*	mg/L	100	4/27/2018 10:41:36 AM	R50912				
SM2320B: ALKALINITY						Analyst	: JRR				
Bicarbonate (As CaCO3)	162.5	20.00		mg/L CaCO3	1	4/23/2018 5:09:29 PM	R50818				
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	4/23/2018 5:09:29 PM	R50818				
Total Alkalinity (as CaCO3)	162.5	20.00		mg/L CaCO3	1	4/23/2018 5:09:29 PM	R50818				
SM2540C MOD: TOTAL DISSOLV	ED SOLIDS					Analyst	: KS				
Total Dissolved Solids	125000	2000	*D	mg/L	1	4/24/2018 4:44:00 PM	37756				
SM4500-H+B / 9040C: PH						Analyst	: JRR				
рН	6.94		н	pH units	1	4/23/2018 5:09:29 PM	R50818				
EPA METHOD 200.7: DISSOLVED	METALS					Analyst	: pmf				
Barium	4.1	0.010	*	mg/L	5	4/26/2018 3:45:43 PM	B50835				
Calcium	4900	50		mg/L	50	4/27/2018 12:55:18 PM	A50894				
Iron	0.16	0.10		mg/L	5	4/26/2018 3:45:43 PM	B50835				
Magnesium	710	50		mg/L	50	4/27/2018 12:55:18 PM	A50894				
Manganese	0.93	0.010	*	mg/L	5	4/26/2018 3:45:43 PM	B50835				
Potassium	640	50		mg/L	50	4/26/2018 8:08:51 PM	B50835				
Sodium	34000	1000		mg/L	1E	4/26/2018 8:13:11 PM	B50835				
Strontium	960	50		mg/L	5E	4/27/2018 12:57:37 PM	A50894				

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

Oualifiers:

- * 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
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

C 1

CI

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

• . .

N.C.11. 0 A

Client:		Souder, Miller & A	Associate	es							
Project:		Zack McCormick	Ditch								
Sample ID	MB-B	Samp	Туре: М	BLK	Tes	tCode: E	PA Method	200.7: Dissol	ved Meta	s	
Client ID:	PBW	Bate	ch ID: B5	0835	F	RunNo: 5	0835				
Prep Date:		Analysis	Date: 4/	/26/2018	S	SeqNo: 1	651084	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		ND	0.0020								
Calcium		ND	1.0								
Iron		ND	0.020								
Magnesium		ND	1.0								
Manganese		ND	0.0020								
Potassium		ND	1.0								
Sodium		ND	1.0								
Strontium		ND	0.010								
Sample ID	LLLCS-	B Samp	Type: LC	SLL	Tes	tCode: E	PA Method	200.7: Dissol	ved Meta	ls	
Client ID:	BatchQ	C Bate	ch ID: B5	60835	RunNo: 50835						
Prep Date:		Analysis	Date: 4/	26/2018	S	SeqNo: 1	651108	Units: mg/L			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		0.0021	0.0020	0.002000	0	105	50	150			
Calcium		ND	1.0	0.5000	0	116	50	150			
ron		0.021	0.020	0.02000	0	107	50	150			
Magnesium		ND	1.0	0.5000	0	110	50	150			
Manganese		0.0023	0.0020	0.002000	0	113	50	150			
Potassium		ND	1.0	0.5000	0	109	50	150			
Sodium		ND	1.0	0.5000	0	143	50	150			
Strontium		ND	0.010	0.005000	0	106	50	150			
Sample ID	LCS-B	Samp	Type: LC	S	Tes	tCode: E	PA Method	200.7: Dissol	ved Meta	ls	
Client ID:	LCSW	Bate	ch ID: B5	60835	F	RunNo: 5	0835				
Prep Date:		Analysis	Date: 4/	/26/2018	5	SeqNo: 1	651110	Units: mg/L			
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		0.52	0.0020	0.5000	0	104	85	115			
Calcium		51	1.0	50.00	0	102	85	115			
ron		0.53	0.020	0.5000	0	106	85	115			
		51	1.0	50.00	0	102	85	115			
-		• - ·	0.0020	0.5000	0	107	85	115			
Vanganese		0.54									
Magnesium Manganese Potassium		49	1.0	50.00	0	98.4	85	115			
Manganese				50.00 50.00	0 0	98.4 98.5	85 85 85	115 115			

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

1804A97

04-May-18

WO#:

Page 6 of 13

Client:		Souder, Miller & A		es							
Project:		Zack McCormick D	Ditch								
Sample ID	MB-A	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	200.7: Dissol	ved Meta	ls	
Client ID:	PBW	Batch	n ID: A5	0894	R	RunNo: 5	0894				
Prep Date:		Analysis D	Date: 4/	27/2018	S	SeqNo: 1	652566	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		ND	1.0								
Magnesium		ND	1.0								
Strontium		ND	0.010								
Sample ID	LLLCS-	A SampT	ype: LC	SLL	Tes	tCode: E	PA Method	200.7: Dissol	ved Meta	ls	
Client ID:	BatchQ	C Batch	n ID: A5	0894	R	aunNo: 5	0894				
Prep Date:		Analysis D	Date: 4/	27/2018	S	SeqNo: 1	652567	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		ND	1.0	0.5000	0	98.2	50	150			
Magnesium		ND	1.0	0.5000	0	97.3	50	150			
Strontium		ND	0.010	0.005000	0	102	50	150			
Sample ID	LCS-A	SampT	ype: LC	S	Tes	tCode: E	PA Method	200.7: Dissol	ved Meta	ls	
Client ID:	LCSW	Batch	n ID: A5	0894	R	aunNo: 5	0894				
Prep Date:		Analysis D	0ate: 4/	27/2018	S	SeqNo: 1	652568	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		49	1.0	50.00	0	98.5	85	115			
Magnesium		50	1.0	50.00	0	100	85	115			
Strontium		0.11	0.010	0.1000	0	108	85	115			

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

1804A97

04-May-18

WO#:

Client: Project:		Souder, Miller & A Zack McCormick D		es							
Sample ID	MB	SampT	ype: ml	olk	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID:	PBW	Batcl	n ID: R5	0912	F	unNo: 5	0912				
Prep Date:		Analysis D	Date: 4/	27/2018	S	eqNo: 1	652832	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride Sulfate		ND ND	0.50 0.50								
Sample ID	LCS	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anions	6		
Client ID:	LCSW	Batcl	n ID: R5	0912	F	unNo: 5	0912				
Prep Date:		Analysis D	Date: 4/	27/2018	S	eqNo: 1	652833	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		4.7	0.50	5.000	0	93.5	90	110			
Sulfate		9.2	0.50	10.00	0	92.0	90	110			
Sample ID	MB	SampT	ype: ml	olk	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID:	PBW	Batcl	n ID: R5	0920	F	unNo: 5	0920				
Prep Date:		Analysis E	Date: 4/	30/2018	S	eqNo: 1	654028	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	0.50								
Sample ID	LCS	SampT	ype: Ics	6	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID:	LCSW	Batcl	n ID: R5	0920	F	unNo: 5	0920				
Prep Date:		Analysis E	Date: 4	30/2018	S	eqNo: 1	654029	Units: mg/L			
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		4.8	0.50	5.000	0	96.5	90	110			

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
- Р Sample pH Not In Range
- RL
- W Sample container temperature is out of limit as specified

1804A97

04-May-18

WO#:

Page 8 of 13

Analyte detected below quantitation limits

- Reporting Detection Limit

	r, Miller & A IcCormick D		es							
Sample ID LCS-37747	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: LCSW	Batch	Batch ID: 37747 RunNo: 50794								
Prep Date: 4/23/2018	Analysis D	ate: 4/	24/2018	24/2018 SeqNo: 1648309 Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	115	70	130			
Surr: DNOP	0.52		0.5000		104	77.5	161			
Sample ID MB-37747	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	9	
Client ID: PBW	Batch	n ID: 37	747	F	RunNo: 5	0794				
Prep Date: 4/23/2018	Analysis D	ate: 4/	24/2018	5	SeqNo: 1	648310	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		104	77.5	161			

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

1804A97

04-May-18

WO#:

Page 9 of 13

	er, Miller & A McCormick D		es								
Sample ID 100ng lcs	SampT	ype: LC	S4	Test	Code: El	PA Method	8260: Volatile	es Short L	.ist		
Client ID: BatchQC	Batch	n ID: A5	0821	R	RunNo: 50821						
Prep Date:	Analysis D	ate: 4/	25/2018	S	eqNo: 1	649367	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	100	80	120				
Toluene	21	1.0	20.00	0	103	80	120				
Ethylbenzene	21	1.0	20.00	0	105	80	120				
Methyl tert-butyl ether (MTBE)	18	1.0	20.00	0	87.9	80	120				
1,2,4-Trimethylbenzene	21	1.0	20.00	0	104	80	120				
1,3,5-Trimethylbenzene	20	1.0	20.00	0	101	80	120				
Xylenes, Total	61	1.5	60.00	0	102	80	120				
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	70	130				
Surr: Toluene-d8	10		10.00		102	70	130				
		SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List									
Sample ID rb	SampT	ype: ME	BLK	Batch ID: A50821 RunNo: 50821							
Sample ID rb Client ID: PBW							8260: Volatile	es Snort L	.ıst		
		n ID: A5	0821	R		0821	Units: µg/L	es Snort L	list		
Client ID: PBW	Batch	n ID: A5	0821 25/2018	R	unNo: 5	0821		%RPD	. ist RPDLimit	Qual	
Client ID: PBW Prep Date:	Batch Analysis D	n ID: A5 Date: 4/	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	
Client ID: PBW Prep Date: Analyte	Batch Analysis D Result	n ID: A5 Date: 4/ PQL	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	
Client ID: PBW Prep Date: Analyte Benzene	Batch Analysis D Result ND	n ID: A5 Date: 4/ PQL 1.0	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	
Client ID: PBW Prep Date: Analyte Benzene Toluene	Batch Analysis D Result ND ND	Date: 4/ PQL 1.0 1.0	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene	Batch Analysis D Result ND ND ND	Date: 4/ PQL 1.0 1.0 1.0	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene Methyl tert-butyl ether (MTBE)	Batch Analysis D Result ND ND ND ND	Date: 4/ PQL 1.0 1.0 1.0 1.0	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene Methyl tert-butyl ether (MTBE) 1,2,4-Trimethylbenzene	Batch Analysis D Result ND ND ND ND ND	PAL PAL PQL 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene Methyl tert-butyl ether (MTBE) 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	Batch Analysis D Result ND ND ND ND ND ND	PQL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0821 25/2018	R	unNo: 5 eqNo: 1	0821 649369	Units: µg/L			Qual	

Qualifiers:

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

Page 10 of 13

WO#:	1804A9	7

04-May-18

	er, Miller & A McCormick I		es										
Sample ID 2.5ug gro lcs	Samp	Type: LC	s	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSW	Bato	Batch ID: W50821			unNo: 5	50821							
Prep Date:	Analysis I	Date: 4/	25/2018	S	SeqNo: 1	649844	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	101	70	130						
Surr: BFB	9.8		10.00		98.4	70	130						
Sample ID rb	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e				
Client ID: PBW	Bato	h ID: W	50821	F	unNo: 5	50821							
Prep Date:	Analysis I	Date: 4/	25/2018	5	SeqNo: 1	649845	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	ND	0.050											
Surr: BFB	11		10.00		109	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

Released to Imaging: 3/20/2023 8:01:10 AM

- 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

1804A97

04-May-18

WO#:

Page 11 of 13

Client: Project:	Souder, Miller & Asso Zack McCormick Ditc						
Sample ID mb-1	alk SampType	BLK	Test	Code: SM2320B: A	Ikalinity		
Client ID: PBW	Batch ID	R50818	R	tunNo: 50818			
Prep Date:	Analysis Date	4/23/2018	S	eqNo: 1648595	Units: mg/L CaCO3		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP[D RPDLimit	Qual
Total Alkalinity (as Ca	CO3) ND 24	0.00					
Sample ID Ics-1	alk SampType	LCS	Test	Code: SM2320B: A	Ikalinity		
Client ID: LCS	N Batch ID	R50818	R	tunNo: 50818			
Prep Date:	Analysis Date	4/23/2018	S	eqNo: 1648596	Units: mg/L CaCO3		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP[D RPDLimit	Qual
Total Alkalinity (as Ca	CO3) 79.08 2	0.00 80.00	0	98.8 90	110		

Qualifiers:

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

1804A97

04-May-18

WO#:

Page 12 of 13

W

Client:	Souder, N	/liller & A	ssociat	es							
Project:	Zack Mc	Cormick D	Ditch								
Sample ID	MB-37756	SampT	Гуре: М І	BLK	Tes	tCode: S	M2540C MC	DD: Total Diss	olved So	lids	
Client ID:	PBW	Batch	h ID: 37	756	F	RunNo: 5	0813				
Prep Date:	4/23/2018	Analysis D	Date: 4	/24/2018	S	SeqNo: 1	648131	Units: mg/L			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolve	d Solids	ND	20.0								
Sample ID	LCS-37756	SampT	Гуре: LC	cs	Tes	tCode: S	M2540C MC	D: Total Diss	olved So	lids	
Client ID:	LCSW	Batch	h ID: 37	756	F	RunNo: 5	0813				
Prep Date:	4/23/2018	Analysis D	Date: 4	/24/2018	S	SeqNo: 1	648132	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolve	d Solids	1000	20.0	1000	0	100	80	120			
Sample ID	1804A97-003AMS	SampT	Type: M	s	Tes	tCode: S	M2540C MC	D: Total Diss	olved So	lids	
Client ID:	Slug #2	Batch	h ID: 37	756	F	RunNo: 5	0813				
Prep Date:	4/23/2018	Analysis D	Date: 4	/24/2018	S	SeqNo: 1	648136	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolve	d Solids	8460	100	5000	3460	100	80	120			D
Sample ID	1804A97-003AMS	D SampT	Type: M	SD	Tes	tCode: S	M2540C MC	D: Total Diss	olved So	lids	
Client ID:	Slug #2	Batch	h ID: 37	756	F	RunNo: 5	0813				
Prep Date:	4/23/2018	Analysis D	Date: 4	/24/2018	S	SeqNo: 1	648137	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualTotal Dissolved Solids852010050003460101801200.7075D

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

1804A97

04-May-18

WO#:

	12/2023 1:44:17 PM Ronmental Ysis Ratory	TEL: 505-345-3	490 Albuquerq 975 FAX:	1 Hawkins NE we, NM 87109	Sa	Pag Sample Log-In Check List					
Client Name:	SMA-CARLSBAD	Work Order Num	ber: 1804	IA97		RcptN	lo: 1				
Received By:	Isaiah Ortiz	4/21/2018 9:40:00 /	٩M	1	c a						
Completed By:	Ashley Gallegos	4/23/2018 8:37:36 /	۹M	÷	Þ.						
Reviewed By:	TV-0	4/23/18			0						
LB: EN	Μ	1 1									
Chain of Cus	•										
1. Is Chain of C	ustody complete?		Yes	\checkmark	No 🗌	Not Present					
2. How was the	sample delivered?		Cour	er							
							·				
<u>Log In</u> 3. Was an atterr	pt made to cool the sam	nlog?	Maria		. [7]						
	ipt made to cool the sam	pics?	Yes		No 🗀	NA					
4. Were all samp	ples received at a temper	ature of >0° C to 6.0°C	Yes		No 🗌	NA 🗌					
			103								
 Sample(s) in p 	proper container(s)?		Yes	1	No 🔽						
6. Sufficient sam	ple volume for indicated	test(s)?	Yes	Z . N	lo 🗌						
7 Are samples (e	except VOA and ONG) p	roperly preserved?	Yes [lo 🔽						
8. Was preservat	ive added to bottles?		Yes		lo 🗌	NA 🗌					
			_			HNO3	l .				
	e zero headspace?		Yes		lo 🗌	No VOA Vials 🗌					
IO, were any sam	ple containers received i	broken?	Yes	N	lo 🗹	# of preserved					
11. Does paperwor	k match bottle labels?		Yes	Л N	• 🗆	bottles checked for pH:	и –				
	ncies on chain of custody	/)	165 0	E FN			r >12 unless noted)				
	prrectly identified on Cha	-	Yes	Z N	• 🗆	Adjusted?	yes				
	analyses were requested	i?	Yes		•						
	g times able to be met? stomer for authorization.)		Yes	Z N	• 🗆	Checked by:	ENM				
	-				-						
	ng (if applicable)		_								
15. Was client noti	fied of all discrepancies	with this order?	Yes	N	o 🗌	NA 🗹					
Person N		Date:]				
By Whon	1	Via:	🔄 eMail	Phone [] Fax	in Person					
Regardin											
	tructions:	<u></u>	· ·····	·····_···· · ···	····						
16. Additional rem	arks:	,					-				

For dissolved metals analysis poured off and filtered from provided 500mL unpreserved HDP into 125mL HPD. For acceptable pH for metals analysis added 0.5mL HNO3 to all metals bottles (-001 through -004). Samples held for 24 hrs prior to analysis. - ENM 04/23/2018 @10.05

____ ---- _ _ _ _

17. Cooler Information

Cool	er No Temp ^e	C Conditio	on Seal In	act Seal No	Seal Date Signed By
1	2.4	Good	Yes		
		Analysis and a second state of the Analysis and a second state of the second state of			

Page 1 of 1

Received by	OCD:	<u>1/</u> 12/2023	1:44:17 F

Re	ceivea	l by	OCD	: 1/1	12/2	023	1:44	4:17	PM	(N 1	o V) :	səlddu	Air B			Τ	7-	 Τ-	 —		 <u> </u>	- 		Page 86 (of 161
		ANALYSIS LABORATORY	alle	4901 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax	Analysis	(*0	S'⁺O (SM	202 ¹ 102 ¹ 11)		hod 2 hod 2 hod 3 hetals (AC) (AC) (AC) (AC) (AC) (AC) (AC)) (AC) (AC	H 8016 H (Met B (Met F (83 H (4	+	+	Dr. W.						dor. * Slug#2	7 bags htal. Huld redsto	notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
				490	Tel.		(ʎjuc	se5) HG	<u> </u> +	3871	EX + V	та		_	\times				 			MATA	bag	lity. Any su
I urn-Around Time:	Standard Rush July		Lack Milonaire Stal			Project Mensee.		Hasth Weyard	NX .	Ohlice: Arian Invo		Container Preservative HEAL No.				× 200- 548421	1 bag hair aus -004					Received by: Date Time D.	11 1 yall 8 0900 1	Date Date	ou of the possibility of the subcontracted to other accredited laboratories. This serves as notice of this possibility
	Client: OMA Carlsbad		Mailing Address:	ing:	3/2	email or Fax#:	QA/QC Package:		10 Accreditation	EDD (Type)		Date Time Matrix Sample Request ID	19/18 1:23 agueurs 1 n 124	" 12:05 " (lag #1	" 12:52 " Chi + 2		1-22					Date: Time: Relinquished by:	26/16 1800 182 a.	If The Contract of the Contrac	

61



May 03, 2018

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

RE: Zack McCormick Ditch

OrderNo.: 1804B37

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 51 sample(s) on 4/21/2018 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. Analytical Report Lab Order 1805573 Date Reported: 5/21/2018												
CLIENT: Souder, Miller & Associates Project: Zach Mc			Client Samp	le ID: SP1 Date: 5/5/2018								
Lab ID: 1805573-001	Matrix:	SOIL		Date: 5/9/2018 9:30:00 AM								
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch							
EPA METHOD 300.0: ANIONS Chloride	5200	300	mg/Kg	Anal 200 5/16/2018 12:17:20	yst: smb PM 38135							

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 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18		
CLIENT: Souder, Miller & Associates			Client Samp	le ID: Irrigation North	
Project: Zack McCormick Ditch			Collection 1	Date: 4/18/2018 8:05:00 AM	
Lab ID: 1804B37-001	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	880	30	mg/Kg	20 4/25/2018 5:42:25 PM	1 37795

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 58
- 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 1804B37 Date Reported: 5/3/2	
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-002	Matrix:	SOIL	0011001011	e ID: SP1 Date: 4/18/2018 9:00:00 AM Date: 4/21/2018 9:40:00 AM	•
Analyses	Result	PQL Qu		DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	2700	75	mg/Kg	Analy 50 4/29/2018 9:28:14 Al	/st: MRA M 37795

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 2 of 58
- 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 1804B37 Date Reported: 5/3/20	018
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-003	Matrix:	SOIL	0011011011	e ID: SP2 Date: 4/18/2018 9:15:00 AM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu		DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	1100	30	mg/Kg	Analy 20 4/25/2018 6:32:03 PM	vst: MRA M 37795

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 58
- 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 1804B37 Date Reported: 5/3/20	
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-004	Matrix:	SOIL	0011011011	e ID: SP3 Date: 4/18/2018 9:10:00 AM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	910	30	mg/Kg	Analy 20 4/25/2018 6:44:28 Pl	/st: MRA M 37795

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 58
- 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 1804B37 Date Reported: 5/3/20)18
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp Collection	le ID: SP4 Date: 4/18/2018 9:22:00 AM	
Lab ID: 1804B37-005	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	vst: MRA
Chloride	1800	75	mg/Kg	50 4/29/2018 9:40:38 AM	M 37795

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
- % 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 5 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Diesel Range Organics (DRO)

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Methyl tert-butyl ether (MTBE)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

37744

37744

37744

37744

37744

37744

37744

37744

Analytical Report

Lab Order 1804B37

Date Reported: 5/3/2018

4/25/2018 12:07:20 AM 37745

4/25/2018 12:07:20 AM 37745

4/25/2018 12:07:20 AM 37745

4/24/2018 7:03:28 PM

Analyst: NSB

Analyst: NSB

CLIENT:	Souder, Miller & Associates	Client Sample ID: L32						
Project:	Zack McCormick Ditch	Collection Date: 4/18/2018 9:07:00 AM						
Lab ID:	1804B37-006	Matrix: SOIL		Received Date: 4/21/2018 9:40:00 AM				
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch	
EPA MET	THOD 300.0: ANIONS					Analys	st: MRA	
Chloride		1400	75	mg/Kg	50	4/29/2018 9:53:03 AN	37795	
EPA MET	HOD 8015M/D: DIESEL RANG		;			Analys	st: TOM	

9.7

49

4.8

70-130

15-316

0.097

0.024

0.048

0.048

0.097

80-120

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

1

ND

ND

97.4

ND

89.5

ND

ND

ND

ND

ND

98.7

- * 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
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 58 J
- Р 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 1804B37 Date Reported: 5/3/2	
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-007	Matrix:	SOIL	0011011011	e ID: L33 Date: 4/18/2018 9:25:00 AM Date: 4/21/2018 9:40:00 AM	•
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	140	30	mg/Kg	Analy 20 4/26/2018 12:28:07 F	/st: MRA PM 37818

Qualifiers:	*
-------------	---

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Gasoline Range Organics (GRO)

Methyl tert-butyl ether (MTBE)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1804B37

Date Reported: 5/3/2018

4/24/2018 7:26:43 PM

1

1

1

1

1

1

1

1

37744

37744

37744

37744

37744

37744

37744

37744

Analyst: NSB

CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch	Client Sample ID: L37 Collection Date: 4/18/2018 9:45:00 AM					
Lab ID: 1804B37-008	Matrix:	SOIL	Received 1	Date: 4/2	1/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	450	30	mg/Kg	20	4/26/2018 12:40:31 PM	/ 37818
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	;			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/25/2018 10:10:20 AM	/ 37745
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/25/2018 10:10:20 AN	/ 37745
Surr: DNOP	107	70-130	%Rec	1	4/25/2018 10:10:20 AM	/ 37745
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB

5.0

15-316

0.10

0.025

0.050

0.050

0.10

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

ND

91.2

ND

ND

ND

ND

ND

101

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- 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
- Analyte detected below quantitation limits Page 8 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW54	
Project: Zack McCormick Ditch	Collection Date: 4/18/2018 3:30:00 PM				
Lab ID: 1804B37-009	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	250	30	mg/Kg	20 4/26/2018 12:52:56 P	M 37818

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 58
- 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 1804B37 Date Reported: 5/3/2()18
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-010	Matrix:	SOIL	00110011011	le ID: SW33 Date: 4/18/2018 10:00:00 AN Date: 4/21/2018 9:40:00 AM	-
Analyses	Result	PQL Qu		DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	660	30	mg/Kg	Analy 20 4/26/2018 1:30:08 PM	vst: MRA M 37818

Qualifiers:	:
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 58
- 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 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW37	
Project: Zack McCormick Ditch	Collection Date: 4/18/2018 10:15:00 AM				M
Lab ID: 1804B37-011	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	71	30	mg/Kg	20 4/26/2018 1:42:33 PM	1 37818

Qualifiers:	1
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 58
- 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 1804B37 Date Reported: 5/3/20	018
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp	le ID: SW35 Date: 4/18/2018 10:12:00 AN	л
Lab ID: 1804B37-012	Matrix:	SOIL	00110011011	Date: 4/18/2018 10:12:00 AM Date: 4/21/2018 9:40:00 AM	1
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	580	30	mg/Kg	Analy 20 4/26/2018 2:19:46 PM	st: MRA 1 37818

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
- % 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 12 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates			Client Samp		
Project:Zack McCormick DitchLab ID:1804B37-013	Matrix:	SOIL	00110011011	Date: 4/18/2018 10:30:00 AM Date: 4/21/2018 9:40:00 AM	l
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: MRA
Chloride	500	30	mg/Kg	20 4/26/2018 2:32:10 PM	37818

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 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18	
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp	le ID: SW39 Date: 4/18/2018 10:37:00 AM	
Lab ID: 1804B37-014	Matrix:	SOIL	00110011011	Date: 4/21/2018 9:40:00 AM	L
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: MRA
Chloride	530	30	mg/Kg	20 4/26/2018 2:44:34 PM	37818

Qualifiers:	1
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory				Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates			Client Samp		
Project:Zack McCormick DitchLab ID:1804B37-015	Matrix:	SOIL	00110011011	Date: 4/18/2018 10:07:00 AM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: MRA
Chloride	580	30	mg/Kg	20 4/26/2018 2:56:59 PM	37818

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 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/201	8
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-016	Matrix: 5	SOIL	00110011011	e ID: SW36 Date: 4/18/2018 10:17:00 AM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	80	30	mg/Kg	Analys 20 4/26/2018 3:09:24 PM	t: MRA 37818

Qualifiers:	*
-------------	---

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to Maurx
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 16 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, J				Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	018
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch		• · ·	Client Samp	*	
Lab ID: 1804B37-017	Matrix:	SOIL	001100101	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	500	30	mg/Kg	20 4/26/2018 3:21:49 PM	1 37818

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 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, In				Analytical Report Lab Order 1804B37 Date Reported: 5/3/2018		
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-018	Client Sample ID: F4-1 Collection Date: 4/18/2018 11:13:00 AM Matrix: SOIL Received Date: 4/21/2018 9:40:00 AM			-		
Analyses	Result	PQL Qu		DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS Chloride	160	30	mg/Kg	Analy 20 4/26/2018 3:34:13 PM	st: MRA // 37818	

1

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 18 of 58
- 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.				Analytical Report Lab Order 1804B37 Date Reported: 5/3/2018		
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-019	Client Sample ID: F4-0.5 Collection Date: 4/18/2018 11:00:00 AM Matrix: SOIL Received Date: 4/21/2018 9:40:00 AM					
Analyses	Result	PQL Qu		DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS Chloride	1300	75	mg/Kg	Analy 50 4/29/2018 10:05:28 A	vst: MRA AM 37818	

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 19 of 58
- 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.				Analytical Report Lab Order 1804B37 Date Reported: 5/3/2018		
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-020	Client Sample ID: F3-1 Collection Date: 4/18/2018 11:20:00 AM Matrix: SOIL Received Date: 4/21/2018 9:40:00 AM					
Analyses	Result	PQL Qu		DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS Chloride	190	30	mg/Kg	Analy 20 4/26/2018 3:59:03 PM	vst: MRA M 37818	

1

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 20 of 58
- 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 1804B37
Date Reported: 5/3/20 | 18 |
|----------------------------------------------------------------------|----------|------------|----------|-----------------------------------------------------------------|---------|
| CLIENT: Souder, Miller & Associates
Project: Zack McCormick Ditch | | | - | le ID: F3 Surface
Date: 4/18/2018 11:15:00 AM | 1 |
| Lab ID: 1804B37-021 | Matrix: | SOIL | Received | Date: 4/21/2018 9:40:00 AM | |
| Analyses | Result | PQL Qu | al Units | DF Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS | | | | Analy | st: MRA |
| Chloride | 130 | 30 | mg/Kg | 20 4/26/2018 4:11:28 PM | 1 37818 |

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
- % 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 limitsPage 21 of 58 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			00110011011	Date: 4/18/2018 11:30:00 AM	[
Lab ID: 1804B37-022 Analyses	Matrix: 3	SOIL PQL Qu		Date: 4/21/2018 9:40:00 AM DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	150	30	mg/Kg	Analys 20 4/26/2018 4:48:42 PM	st: MRA 37818

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 22 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/2018	
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-023	Matrix:	SOIL	00110011011	e ID: F1-1 Date: 4/18/2018 11:35:00 AM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu			Batch
EPA METHOD 300.0: ANIONS Chloride	150	30	mg/Kg	Analyst: 20 4/26/2018 5:25:55 PM	MRA 37818

Qualifiers:	*
-------------	---

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to Maurx
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 23 of 58
- 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 1804B37 Date Reported: 5/3/201	8
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-024	Matrix:	SOIL	00110011011	le ID: F1-2 Date: 4/18/2018 11:40:00 AM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	260	30	mg/Kg	Analys 20 4/26/2018 5:38:20 PM	t: MRA 37818

Qualifiers:	*
-------------	---

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Difference 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 24 of 58
- 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 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp Collection	le ID: FBG1 Date: 4/18/2018 9:15:00 AM	
Lab ID: 1804B37-025	Matrix:	SOIL	001100000	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	180	30	mg/Kg	Analy: 20 4/26/2018 5:50:44 PM	st: MRA 1 37818

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 25 of 58
- 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 1804B37 Date Reported: 5/3/2018	6
CLIENT: Souder, Miller & Associates			Client Samp		
Project:Zack McCormick DitchLab ID:1804B37-026	Matrix:	SOIL	001100101	Date: 4/18/2018 11:20:00 AM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	
Chloride	170	30	mg/Kg	20 4/27/2018 8:58:14 AM	37829

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
- % 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 limitsPage 26 of 58 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	torv. Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/2(
CLIENT: Souder, Miller & Associates			Client Samp	le ID: FBG3	
Project:Zack McCormick DitchLab ID:1804B37-027	Matrix:	SOIL	0011001011	Date: 4/18/2018 1:45:00 PM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	340	30	mg/Kg	Analy 20 4/27/2018 9:35:27 AN	vst: MRA M 37829

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 27 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	torv. Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/2	
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp	•	
Lab ID: 1804B37-028	Matrix:	SOIL	0011001011	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	160	30	mg/Kg	20 4/27/2018 9:47:52 Al	M 37829

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
- % 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 28 of 58 J
- Р 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 1804B37 Date Reported: 5/3/201	18
CLIENT: Souder, Miller & Associates			Client Samp		
Project:Zack McCormick DitchLab ID:1804B37-029	Matrix:	SOIL		Date: 4/18/2018 12:07:00 PM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	130	30	mg/Kg	Analys 20 4/27/2018 10:00:17 AM	it: MRA M 37829

Qualifiers:	*
-------------	---

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 29 of 58
- 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	torv. Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/2()18
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW47	
Project:Zack McCormick DitchLab ID:1804B37-030	Matrix:	SOIL		Date: 4/18/2018 12:11:00 PM Date: 4/21/2018 9:40:00 AM	-
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	1100	30	mg/Kg	Analy 20 4/27/2018 10:12:41 A	vst: MRA M 37829

Qualifiers:	1
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 30 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Diesel Range Organics (DRO)

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

Analytical Report

Lab Order 1804B37

Date Reported: 5/3/2018

4/25/2018 12:54:43 AM

4/24/2018 7:49:55 PM

4/25/2018 12:54:43 AM 37745

4/25/2018 12:54:43 AM 37745

37745

37744

37744

37744

37744

37744

37744

37744

Analyst: NSB

Analyst: NSB

CLIENT:	Souder, Miller & Associates		(Client Samp	le ID: L-3	8	
Project:	Zack McCormick Ditch			Collection 2	Date: 4/18	8/2018 10:27:00 AM	
Lab ID:	1804B37-031	Matrix: S	SOIL	Received	Date: 4/21	1/2018 9:40:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
ΕΡΑ ΜΕΤ	HOD 300.0: ANIONS					Analys	t: MRA
Chloride		270	30	mg/Kg	20	4/27/2018 10:25:06 AM	M 37829
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: TOM

9.6

48

5.0

70-130

15-316

0.025

0.050

0.050

0.099

80-120

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

ND

ND

71.2

ND

86.7

ND

ND

ND

ND

98.7

- * 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
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 31 of 58 J
- Р 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 1804B37 Date Reported: 5/3/20)18
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-032	Matrix:	SOIL	001100101	le ID: SW41 Date: 4/18/2018 12:30:00 PM Date: 4/21/2018 9:40:00 AM	-
Analyses	Result	PQL Qu		Date: 4/21/2018 9.40.00 AM DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	170	30	mg/Kg	Analy 20 4/27/2018 11:02:19 A	st: MRA M 37829

Qualifiers:	1
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 32 of 58
- 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 1804B37 Date Reported: 5/3/20	018
CLIENT: Souder, Miller & Associates			Client Samp	*	
Project:Zack McCormick DitchLab ID:1804B37-033	Matrix:	SOIL	001100101	Date: 4/18/2018 12:50:00 PM Date: 4/21/2018 9:40:00 AM	l
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	240	30	mg/Kg	Analy 20 4/27/2018 11:14:44 A	st: MRA M 37829

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
- % 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 33 of 58 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/2(
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch Lab ID: 1804B37-034	Matrix:	SOIL	00110011011	*	1
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	800	30	mg/Kg	Analy 20 4/27/2018 11:27:09 A	vst: MRA AM 37829

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 34 of 58
- 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	torv. Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW42	
Project:Zack McCormick DitchLab ID:1804B37-035	Matrix:	SOIL	001100101	Date: 4/18/2018 12:46:00 PM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	100	30	mg/Kg	Analys 20 4/27/2018 11:39:34 A	st: MRA M 37829

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 35 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laborat	torv, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/2	
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp	*	
Lab ID: 1804B37-036	Matrix:	SOIL	001100101	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	250	30	mg/Kg	Anal <u>y</u> 20 4/27/2018 11:51:59	yst: MRA AM 37829

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
- % 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 36 of 58 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s I ahora	tory Inc		Analytical Report Lab Order 1804B37	
	S Labol a	ιοι y , πις.		Date Reported: 5/3/20	018
CLIENT: Souder, Miller & Associates			Client Samp	e ID: SW51	
Project: Zack McCormick Ditch			Collection 1	Date: 4/18/2018 1:42:00 PM	
Lab ID: 1804B37-037	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	vst: MRA
Chloride	110	30	mg/Kg	20 4/27/2018 12:04:23 F	PM 37829

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
- % 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 limitsPage 37 of 58 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Labora	tory, Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	018
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW44	
Project: Zack McCormick Ditch			Collection	Date: 4/18/2018 2:07:00 PM	
Lab ID: 1804B37-038	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	820	30	mg/Kg	20 4/27/2018 12:16:48 P	M 37829

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 38 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	Analytical Report Lab Order 1804B37 Date Reported: 5/3/2018				
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp Collection	•	
Lab ID: 1804B37-039	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	[
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	490	30	mg/Kg	Analy 20 4/27/2018 12:29:12 F	/st: MRA PM 37829

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 39 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1804B37

Date Reported: 5/3/2018

CLIENT:	Souder, Miller & Associates	Client Sample ID: L50					
Project:	Zack McCormick Ditch			Collection I	Date: 4/1	8/2018 1:32:00 PM	
Lab ID:	1804B37-040	Matrix: S	SOIL	Received I	Date: 4/2	1/2018 9:40:00 AM	
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed	Batch
	THOD 300.0: ANIONS					Analys	: MRA
Chloride		720	30	mg/Kg	20	4/27/2018 12:41:36 PM	37829

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: 1						
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/25/2018 1:18:35 AM	37745
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/25/2018 1:18:35 AM	37745
Surr: DNOP	79.2	70-130	%Rec	1	4/25/2018 1:18:35 AM	37745
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/24/2018 8:13:08 PM	37744
Surr: BFB	90.7	15-316	%Rec	1	4/24/2018 8:13:08 PM	37744
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	4/24/2018 8:13:08 PM	37744
Toluene	ND	0.049	mg/Kg	1	4/24/2018 8:13:08 PM	37744
Ethylbenzene	ND	0.049	mg/Kg	1	4/24/2018 8:13:08 PM	37744
Xylenes, Total	ND	0.098	mg/Kg	1	4/24/2018 8:13:08 PM	37744
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	4/24/2018 8:13:08 PM	37744

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 40 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	Analytical Report Lab Order 1804B37 Date Reported: 5/3/2018				
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch	Client Sample ID: L44 Collection Date: 4/18/2018 12:1			Date: 4/18/2018 12:15:00 PM	-
Lab ID: 1804B37-041 Analyses	Matrix: Result	SOIL PQL Qu		Date: 4/21/2018 9:40:00 AM DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	700	30	mg/Kg	Analy 20 4/27/2018 12:54:01 F	rst: MRA PM 37829

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 41 of 58
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 1804B37

Date Reported: 5/3/2018

4/24/2018 8:36:28 PM

37744

37744

37744

37744

37744

37744

Analyst: NSB

1

1

1

1

1

1

	, i i i i i i i i i i i i i i i i i i i					1	
CLIENT: Project: Lab ID:	Souder, Miller & Associates Zack McCormick Ditch 1804B37-042	Matrix: S	SOIL		Date: 4/1	1 8/2018 12:48:00 PM 1/2018 9:40:00 AM	
Analyses		Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	MRA
Chloride		920	30	mg/Kg	20	4/27/2018 1:31:14 PM	37829
EPA MET	THOD 8015M/D: DIESEL RANG		5			Analyst	том
Diesel R	ange Organics (DRO)	ND	9.0	mg/Kg	1	4/25/2018 1:42:02 AM	37745
Motor Oi	I Range Organics (MRO)	ND	45	mg/Kg	1	4/25/2018 1:42:02 AM	37745
Surr: I	DNOP	83.2	70-130	%Rec	1	4/25/2018 1:42:02 AM	37745
EPA MET	HOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	4/24/2018 8:36:28 PM	37744

15-316

0.024

0.047

0.047

0.094

80-120

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

84.4

ND

ND

ND

ND

97.0

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- 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
- Analyte detected below quantitation limit Page 42 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysi	s Labora	torv. Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/201	18
CLIENT: Souder, Miller & Associates Project: Zack McCormick Ditch			Client Samp		
Lab ID: 1804B37-043	Matrix:	SOIL	001100000	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: MRA
Chloride	130	30	mg/Kg	20 4/27/2018 1:43:39 PM	37829

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
- % 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 43 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 1804B37

Date Reported: 5/3/2018

4/24/2018 9:00:02 PM

1

1

1

1

1

1

37744

37744

37744

37744

37744

37744

Analyst: NSB

CLIENT:	Souder, Miller & Associates			Client Sampl	e ID: L4	6	
Project:	Zack McCormick Ditch			Collection 1	Date: 4/1	8/2018 12:03:00 PM	
Lab ID:	1804B37-044	Matrix:	SOIL	Received	Date: 4/2	1/2018 9:40:00 AM	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	MRA
Chloride		760	30	mg/Kg	20	4/27/2018 1:56:04 PM	37829
EPA ME	THOD 8015M/D: DIESEL RAN	IGE ORGANICS	5			Analyst	том
Diesel R	Range Organics (DRO)	ND	8.2	mg/Kg	1	4/25/2018 2:05:40 AM	37745
Motor O	il Range Organics (MRO)	ND	41	mg/Kg	1	4/25/2018 2:05:40 AM	37745
Surr:	DNOP	82.5	70-130	%Rec	1	4/25/2018 2:05:40 AM	37745
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	4/24/2018 9:00:02 PM	37744

15-316

0.024

0.049

0.049

0.098

80-120

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

88.4

ND

ND

ND

ND

95.9

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- 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
- Analyte detected below quantitation limit Page 44 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysi	s Labora	torv. Inc.		Analytical Report Lab Order 1804B37 Date Reported: 5/3/20	18
CLIENT: Souder, Miller & Associates			Client Samp	e ID: SW48	10
Project:Zack McCormick DitchLab ID:1804B37-045	Matrix:	SOIL	00110011011	Date: 4/18/2018 1:39:00 PM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	170	30	mg/Kg	Analys 20 4/27/2018 2:08:29 PM	st: MRA 37829

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
- % 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 limitsPage 45 of 58 J
- Р 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 1804B37 Date Reported: 5/3/20	018
CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW55	
Project: Zack McCormick Ditch			Collection	Date: 4/18/2018 3:06:00 PM	
Lab ID: 1804B37-046	Matrix:	SOIL	Received	Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	200	30	mg/Kg	20 4/27/2018 10:16:28 A	M 37833

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
- % 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 limitsPage 46 of 58 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Lahorat	tory Inc		Analytical Report Lab Order 1804B37 Data Baraartadu 5/2/2	
CLIENT: Souder, Miller & Associates			Client Sampl	Date Reported: 5/3/2 e ID: SW52	018
Project:Zack McCormick DitchLab ID:1804B37-047	Matrix:	SOIL		Date: 4/18/2018 3:18:00 PM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	180	30	mg/Kg	Analy 20 4/27/2018 10:28:53 A	/st: MRA AM 37833

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
- % 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 limitsPage 47 of 58 J
- Р 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 1804B37 Date Reported: 5/3/20)18
CLIENT: Souder, Miller & Associates			Client Samp		
Project:Zack McCormick DitchLab ID:1804B37-048	Matrix:	SOIL	0011001011	Date: 4/18/2018 3:30:00 PM Date: 4/21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				,	rst: MRA
Chloride	110	30	mg/Kg	20 4/27/2018 10:41:18 A	M 37833

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
- % 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 limit Page 48 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1804B37

Date Reported: 5/3/2018

CLIENT: Souder, Miller & Associates		Client Sample ID: L54 Collection Date: 4/18/2018 3:30:00 PM					
Project: Zack McCormick Ditch							
Lab ID: 1804B37-049	Matrix: SOIL		Received Date: 4/21/2018 9:40:00 AM				
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Chloride	170	30	mg/Kg	20	5/2/2018 5:01:17 PM	37914	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	6			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/25/2018 8:09:43 AM	37772	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/25/2018 8:09:43 AM	37772	
Surr: DNOP	87.8	70-130	%Rec	1	4/25/2018 8:09:43 AM	37772	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/24/2018 9:23:22 PM	37744	
Surr: BFB	87.1	15-316	%Rec	1	4/24/2018 9:23:22 PM	37744	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	

Surr: BFB	87.1	15-316	%Rec	1	4/24/2018 9:23:22 PM	37744
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	4/24/2018 9:23:22 PM	37744
Toluene	ND	0.049	mg/Kg	1	4/24/2018 9:23:22 PM	37744
Ethylbenzene	ND	0.049	mg/Kg	1	4/24/2018 9:23:22 PM	37744
Xylenes, Total	ND	0.098	mg/Kg	1	4/24/2018 9:23:22 PM	37744
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	4/24/2018 9:23:22 PM	37744

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 49 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis Laboratory, Inc.	
----------------------------------------------	--

Lab Order 1804B37

Date Reported: 5/3/2018

CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L5	2	
Project: Zack McCormick Ditch			Collection I	Date: 4/1	8/2018 4:00:00 PM	
Lab ID: 1804B37-050	Matrix: S	SOIL	Received I	Date: 4/2	21/2018 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	540	30	mg/Kg	20	5/2/2018 5:13:41 PM	37914

			00			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/25/2018 9:20:09 AM	37772
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/25/2018 9:20:09 AM	37772
Surr: DNOP	86.4	70-130	%Rec	1	4/25/2018 9:20:09 AM	37772
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/24/2018 9:46:41 PM	37744
Surr: BFB	89.0	15-316	%Rec	1	4/24/2018 9:46:41 PM	37744
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	4/24/2018 9:46:41 PM	37744
Toluene	ND	0.050	mg/Kg	1	4/24/2018 9:46:41 PM	37744
Ethylbenzene	ND	0.050	mg/Kg	1	4/24/2018 9:46:41 PM	37744
Xylenes, Total	ND	0.10	mg/Kg	1	4/24/2018 9:46:41 PM	37744
Surr: 4-Bromofluorobenzene	98.5	80-120	%Rec	1	4/24/2018 9:46:41 PM	37744

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 50 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1804B37

Date Reported: 5/3/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: L48					
Project: Zack McCormick Ditch			Collection I	Date: 4/1	8/2018 1:36:00 PM	
Lab ID: 1804B37-051	Matrix:	SOIL	Received I	Date: 4/2	21/2018 9:40:00 AM	
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	160	30	mg/Kg	20	5/2/2018 5:50:55 PM	37914

EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	11	9.3	mg/Kg	1	4/26/2018 12:02:13 PM 37772
Motor Oil Range Organics (MRO)	83	46	mg/Kg	1	4/26/2018 12:02:13 PM 37772
Surr: DNOP	100	70-130	%Rec	1	4/26/2018 12:02:13 PM 37772
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/24/2018 11:19:43 PM 37744
Surr: BFB	87.6	15-316	%Rec	1	4/24/2018 11:19:43 PM 37744
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/24/2018 11:19:43 PM 37744
Toluene	ND	0.048	mg/Kg	1	4/24/2018 11:19:43 PM 37744
Ethylbenzene	ND	0.048	mg/Kg	1	4/24/2018 11:19:43 PM 37744
Xylenes, Total	ND	0.096	mg/Kg	1	4/24/2018 11:19:43 PM 37744
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	4/24/2018 11:19:43 PM 37744

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 51 of 58 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:		ler, Miller & Associates McCormick Ditch								
Sample ID	MB-37795	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID: 37795	RunNo: 50849							
Prep Date:	4/25/2018	Analysis Date: 4/25/2018	SeqNo: 1650239	Units: mg/Kg						
Analyte			SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		ND 1.5								
Sample ID	LCS-37795	SampType: Ics	TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch ID: 37795	RunNo: 50849							
Prep Date:	4/25/2018	Analysis Date: 4/25/2018	SeqNo: 1650240	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		14 1.5 15.00	0 92.5 90	110						
Sample ID	MB-37818	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID: 37818	RunNo: 50859							
Prep Date:	4/26/2018	Analysis Date: 4/26/2018	SeqNo: 1651466 Units: mg/Kg							
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		ND 1.5								
Sample ID	LCS-37818	SampType: Ics	TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch ID: 37818	RunNo: 50859							
Prep Date:	4/26/2018	Analysis Date: 4/26/2018	SeqNo: 1651467	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		14 1.5 15.00	0 95.0 90	110						
Sample ID	MB-37829	SampType: mblk	TestCode: EPA Method	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 37829	RunNo: 50898							
Prep Date:	4/27/2018	Analysis Date: 4/27/2018	SeqNo: 1651919	Units: mg/Kg	: mg/Kg					
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		ND 1.5								
Sample ID	LCS-37829	SampType: Ics	TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch ID: 37829	RunNo: 50898							
Prep Date:	4/27/2018	Analysis Date: 4/27/2018	SeqNo: 1651920	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		14 1.5 15.00	0 96.0 90	110						

Qualifiers:

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

1804B37

03-May-18

WO#:

Page 52 of 58

Client: Project:		er, Miller & Associates McCormick Ditch									
Sample ID	MB-37833	SampType: mblk	Tes	TestCode: EPA Method 300.0: Anions							
Client ID:		Batch ID: 37833	F	RunNo: 50900							
Prep Date:	4/27/2018	Analysis Date: 4/27/201	18	SeqNo: 1652052	Units: mg/Kg						
Analyte			value SPK Ref Val		HighLimit %RP	D RPDLimit	Qual				
Chloride		ND 1.5			5						
Sample ID	LCS-37833	SampType: Ics	Tes	TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch ID: 37833	F	RunNo: 50900							
Prep Date:	4/27/2018	Analysis Date: 4/27/201	18 :	SeqNo: 1652053	Units: mg/Kg						
Analyte		Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual				
Chloride		15 1.5	15.00 0	96.9 90	110						
Sample ID	MB-37914	SampType: mblk	Tes	tCode: EPA Method	300.0: Anions						
Client ID:	PBS	Batch ID: 37914	F	RunNo: 50986							
Prep Date:	5/2/2018	Analysis Date: 5/2/2018	3	SeqNo: 1656352	Units: mg/Kg						
Analyte		Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual				
Chloride		ND 1.5									
Sample ID	LCS-37914	SampType: Ics	Tes	tCode: EPA Method	300.0: Anions						
Client ID:	LCSS	Batch ID: 37914	F	RunNo: 50986							
Prep Date:	5/2/2018	Analysis Date: 5/2/2018	3 :	SeqNo: 1656353	Units: mg/Kg						
Analyte		Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual				
Chloride		14 1.5	15.00 0	94.1 90	110						

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
- Р Sample pH Not In Range
- W Sample container temperature is out of limit as specified

1804B37

03-May-18

WO#:

Analyte detected below quantitation limits

- Reporting Detection Limit RL
- Released to Imaging: 3/20/2023 8:01:10 AM

Page 53 of 58

Client:	Souder, N	/liller & A	ssociate	s								
Project:	Zack McO	Cormick D	oitch									
Sample ID	LCS-37745	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID:	LCSS	Batch ID: 37745			RunNo: 50794							
Prep Date:	4/23/2018	Analysis Date: 4/24/2018			SeqNo: 1648086			Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range O	organics (DRO)	47	10	50.00	0	93.2	70	130				
Surr: DNOP		4.1		5.000		82.3	70	130				
Sample ID	MB-37745	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID:	PBS	Batch ID: 37745			R	lunNo: 5	0794					
Prep Date:	4/23/2018	Analysis D	ate: 4/	24/2018	SeqNo: 1648087			Units: mg/K	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range O	•	ND	10									
•	e Organics (MRO)	ND	50									
Surr: DNOP		9.0		10.00		89.6	70	130				
Sample ID	1804B37-049AMS	SampT	ype: MS	6	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID:	L54	Batch	n ID: 37	772	RunNo: 50794							
Prep Date:	4/24/2018	Analysis D	ate: 4/	25/2018	SeqNo: 1649772			Units: mg/Kg				
Analyte		Decult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
,		Result	I QL					0			Quai	
,	Organics (DRO)	45	9.7	48.54	8.146	75.8	55.8	125			Quai	
,	Organics (DRO)			48.54 4.854	8.146	75.8 78.3	55.8 70	8			Quai	
Diesel Range O Surr: DNOP	Drganics (DRO) 1804B37-049AMSI	45 3.8		4.854		78.3	70	125	esel Range	e Organics	Quai	
Diesel Range O Surr: DNOP	1804B37-049AMSI	45 3.8 D SampT	9.7	4.854	Tes	78.3	70 PA Method	125 130	esel Rango	e Organics	Quai	
Diesel Range O Surr: DNOP Sample ID	1804B37-049AMSI L54	45 3.8 D SampT	9.7 ype: MS 1D: 37	4.854 SD 772	Tes	78.3 tCode: Ef	70 PA Method 0794	125 130	Ū	e Organics	Quai	
Diesel Range O Surr: DNOP Sample ID Client ID:	1804B37-049AMSI L54	45 3.8 D SampT Batch	9.7 ype: MS 1D: 37	4.854 6D 772 25/2018	Tes	78.3 tCode: EF	70 PA Method 0794	125 130 8015M/D: Die	Ū	e Organics RPDLimit	Qual	
Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date:	1804B37-049AMSI L54 4/24/2018	45 3.8 D SampT Batch Analysis D	9.7 Type: MS n ID: 37 Pate: 4/	4.854 6D 772 25/2018	Tes R S	78.3 tCode: EF tunNo: 50 SeqNo: 10	70 PA Method 0794 649773	125 130 8015M/D: Die Units: mg/K	(g	-		
Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date: Analyte	1804B37-049AMSI L54 4/24/2018	45 3.8 D SampT Batch Analysis D Result	9.7 Type: MS n ID: 37 Pate: 4/ PQL	4.854 5D 772 25/2018 SPK value	Tes R S SPK Ref Val	78.3 tCode: EF RunNo: 50 SeqNo: 10 %REC	70 PA Method 0794 649773 LowLimit	125 130 8015M/D: Dia Units: mg/K HighLimit	ر RPD	RPDLimit		
Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range O	1804B37-049AMSI L54 4/24/2018 Drganics (DRO)	45 3.8 D SampT Batch Analysis D Result 46 3.5	9.7 Type: MS n ID: 37 Pate: 4/ PQL	4.854 5D 772 25/2018 SPK value 45.96 4.596	Tes R S SPK Ref Val 8.146	78.3 tCode: EF RunNo: 50 SeqNo: 10 %REC 81.4 76.5	70 PA Method 0794 649773 LowLimit 55.8 70	125 130 8015M/D: Dia Units: mg/k HighLimit 125	(g <u>%RPD</u> 1.37 0	RPDLimit 20 0		
Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range O Surr: DNOP	1804B37-049AMSI L54 4/24/2018 Drganics (DRO) LCS-37772	45 3.8 D SampT Batch Analysis D Result 46 3.5 SampT	9.7 Type: MS 1 ID: 37 PQL 9.2	4.854 5D 772 25/2018 SPK value 45.96 4.596 S	Tes R SPK Ref Val 8.146 Tes	78.3 tCode: EF RunNo: 50 SeqNo: 10 %REC 81.4 76.5	70 PA Method 0794 649773 LowLimit 55.8 70 PA Method	125 130 8015M/D: Dia Units: mg/K HighLimit 125 130	(g <u>%RPD</u> 1.37 0	RPDLimit 20 0		
Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range O Surr: DNOP Sample ID	1804B37-049AMSI L54 4/24/2018 Drganics (DRO) LCS-37772 LCSS	45 3.8 D SampT Batch Analysis D Result 46 3.5 SampT	9.7 ype: MS 1D: 37 vate: 4/ PQL 9.2 ype: LC 1D: 37	4.854 5D 772 25/2018 SPK value 45.96 4.596 S 772	Tes R SPK Ref Val 8.146 Tes R	78.3 tCode: EF RunNo: 50 GeqNo: 10 %REC 81.4 76.5 tCode: EF	70 PA Method 0794 649773 LowLimit 55.8 70 PA Method 0794	125 130 8015M/D: Dia Units: mg/K HighLimit 125 130	Kg %RPD 1.37 0 esel Rango	RPDLimit 20 0		
Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range O Surr: DNOP Sample ID Client ID:	1804B37-049AMSI L54 4/24/2018 Drganics (DRO) LCS-37772 LCSS	45 3.8 D SampT Batch Analysis D Result 46 3.5 SampT Batch	9.7 ype: MS 1D: 37 vate: 4/ PQL 9.2 ype: LC 1D: 37	4.854 5D 772 25/2018 SPK value 45.96 4.596 5 772 25/2018	Tes R SPK Ref Val 8.146 Tes R	78.3 tCode: EF RunNo: 50 SeqNo: 10 %REC 81.4 76.5 tCode: EF RunNo: 50	70 PA Method 0794 649773 LowLimit 55.8 70 PA Method 0794	125 130 8015M/D: Die Units: mg/K HighLimit 125 130 8015M/D: Die	Kg %RPD 1.37 0 esel Rango	RPDLimit 20 0		
Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range O Surr: DNOP Sample ID Client ID: Prep Date:	1804B37-049AMSI L54 4/24/2018 Drganics (DRO) LCS-37772 LCSS 4/24/2018	45 3.8 D SampT Batch Analysis D Result 46 3.5 SampT Batch Analysis D	9.7 ype: MS 1D: 37 vate: 4/ 9.2 ype: LC 1D: 37 vate: 4/	4.854 5D 772 25/2018 SPK value 45.96 4.596 5 772 25/2018	Tes R SPK Ref Val 8.146 Tes R S	78.3 tCode: EF RunNo: 50 GeqNo: 10 %REC 81.4 76.5 tCode: EF RunNo: 50 GeqNo: 10	70 PA Method 0794 649773 LowLimit 55.8 70 PA Method 0794 649793	125 130 8015M/D: Dia Units: mg/K HighLimit 125 130 8015M/D: Dia Units: mg/K	رم (g 1.37 0 esel Rango	RPDLimit 20 0	Qual	

Qualifiers:

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

1804B37

03-May-18

WO#:

Page 54 of 58

Released to Imaging: 3/20/2023 8:01:10 AM

,	Miller & A cCormick D		es							
Sample ID MB-37772	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID: 37772 Analysis Date: 4/25/2018			RunNo: 50794						
Prep Date: 4/24/2018				S	SeqNo: 1	649794	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Notor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.7	70	130			

Qualifiers:

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

1804B37

03-May-18

WO#:

Client: Project:		Miller & As Cormick D		es							
Sample ID	MB-37744	TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	PBS	Batch ID: 37744			RunNo: 50797						
Prep Date:	4/23/2018	Analysis Da	ate: 4/	24/2018	S	eqNo: 1	648227	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 880	5.0	1000		87.8	15	316			
Sample ID	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e					
Client ID:	LCSS Batch ID: 37744			RunNo: 50797							
Prep Date:	4/23/2018 Analysis Date: 4/24/2018			SeqNo: 1648228 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	ge Organics (GRO)	27	5.0	25.00	0	109	75.9	131			
Surr: BFB		980		1000		98.0	15	316			
Sample ID	1804B37-006AMS	SampT	/pe: M \$	S	Tes	tCode: E	PA Method	8015D: Gasc	line Rang	e	
Client ID:	L32	Batch	ID: 37	744	RunNo: 50797						
Prep Date:	4/23/2018	Analysis Da	ate: 4/	24/2018	5	eqNo: 1	648236	3236 Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	33	4.7	23.61	0	138	77.8	128			S
Surr: BFB		980		944.3		103	15	316			
Sample ID	1804B37-006AMS	D SampTy	/pe: M\$	SD	Tes	tCode: E	PA Method	8015D: Gasc	line Rang	e	
Client ID:	L32	Batch	ID: 37	744	F	unNo: 5	0797				
Prep Date:	4/23/2018	Analysis Da	ate: 4/	/24/2018	S	eqNo: 1	648237	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	31	4.6	22.91	0	137	77.8	128	4.05	20	S
Surr: BFB		990		916.6		108	15	316	0	0	

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

Released to Imaging: 3/20/2023 8:01:10 AM

- 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
 - Sample container temperature is out of limit as specified

1804B37

03-May-18

WO#:

Page 56 of 58
QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Souder,	Miller & A	ssociate	es							
Project: Zack M	Cormick E	Ditch								
Sample ID MB-37744	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS		h ID: 37		R	RunNo: 5	0797				
Prep Date: 4/23/2018	Analysis [Date: 4/	24/2018	S	SeqNo: 1	648262	Units: mg/k	Ka		
Analyte	Result	PQL		SPK Ref Val	•	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10	Si it value		/inec	LOWLINI	riigitEittiit	/orti D		Quai
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			
Sample ID LCS-37744	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 37	744	R	RunNo: 5	0797				
Prep Date: 4/23/2018	Analysis I	Date: 4/	24/2018	S	SeqNo: 1	648263	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.94	0.10	1.000	0	94.2	70.1	121			
Benzene	0.99	0.025	1.000	0	98.8	77.3	128			
Foluene	1.0	0.050	1.000	0	102	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127			
Kylenes, Total	3.2	0.10	3.000	0	106	81.6	129			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			
Sample ID 1804B37-008AM	IS Samp]	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L37	Batc	h ID: 37	744	R	RunNo: 5	0797				
Prep Date: 4/23/2018	Analysis E	Date: 4/	24/2018	S	SeqNo: 1	648272	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.096	0.9579	0	116	56.9	130			
Benzene	1.1	0.024	0.9579	0	117	68.5	133			
Foluene	1.2	0.048	0.9579	0	123	75	130			
Ethylbenzene	1.2	0.048	0.9579	0	125	79.4	128			
Kylenes, Total	3.7	0.096	2.874	0	128	77.3	131			
Surr: 4-Bromofluorobenzene	0.98		0.9579		102	80	120			
Sample ID 1804B37-008AM	ISD Samp	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L37	Batc	h ID: 37	744	R	RunNo: 5	0797				
Prep Date: 4/23/2018	Analysis E	Date: 4/	24/2018	S	SeqNo: 1	648273	Units: mg/k	٢g		
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
	1.1	0.097	0.9699	0	108	56.9	130	5.79	20	
			0 0000	0	110	68.5	133	4.61	20	
Methyl tert-butyl ether (MTBE) Benzene	1.1	0.024	0.9699	0						
	1.1 1.1 1.1	0.024 0.048 0.048	0.9699 0.9699 0.9699	0	116 117	75 79.4	130 128	4.84 5.70	20 20	

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

1804B37

03-May-18

WO#:

Page 57 of 58

	der, Miller & A « McCormick I		es							
Sample ID 1804B37-00	SAMSD Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L37	Batc	h ID: 37	744	F	RunNo: 5	0797				
Prep Date: 4/23/2018	Analysis [Date: 4/	24/2018	S	SeqNo: 1	648273	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.5	0.097	2.910	0	120	77.3	131	5.11	20	
Surr: 4-Bromofluorobenzene	0.99		0.9699		102	80	120	0	0	

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

1804B37

03-May-18

WO#:

Page 58 of 58

Page	147	of	161

.

Client Name: SMA-CARLSBAD Work Order Number: 1804B37 Received By: Isaiah Ortiz 4/21/2018 9:40:00 AM Completed By: Ashley Gallegos 4/23/2018 8:14:24 AM Reviewed By: MWW 4/23/23/18 1 @.bclff Chain of Custody * * % 1. Is Chain of Custody complete? Yes ✓ 2. How was the sample delivered? Courier ✓ Log In 3. Was an attempt made to cool the samples? Yes ✓ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes ✓ 10. Were any sample containers received broken? Yes ✓ 11. Does paperwork match bottle labels? Yes ✓ 13. is i clear what analyses were requested? Yes ✓ 14.<	RcptNo: 1 I CA A A A A A A A No Not Present No Not Present No Not Not Not Not Not Not Not Not Not N
Completed By: Ashley Gallegos 4/23/2018 8:14:24 AM Reviewed By: MWW 4 23 1 X A.D.C.I.C. Chain of Custody 1 Is Chain of Custody complete? Yes ✓ 2. How was the sample delivered? Courier ✓ Log In 3. Was an attempt made to cool the samples? Yes ✓ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? Yes ✓ 6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes ✓ 10. Were any sample containers received broken? Yes ✓ 11. Does paperwork match bottle labels? Yes ✓ 12. Are matrices correctly identified on Chain of Custody? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓	No 🗍 Not Present 🗍
Reviewed By: MW $4 \int 23 18$ $Abcle$ Chain of Custody 1. Is Chain of Custody complete? Yes 2 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 2 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 2 5. Sample(s) in proper container(s)? Yes 2 6. Sufficient sample volume for indicated test(s)? Yes 2 7. Are samples (except VOA and ONG) property preserved? Yes 2 8. Was preservative added to bottles? Yes 2 9. VOA vials have zero headspace? Yes 2 10. Were any sample containers received broken? Yes 2 11. Does paperwork match bottle labels? Yes 2 12. Are matrices correctly identified on Chain of Custody? Yes 2 13. Is it clear what analyses were requested? Yes 2 14. Were all holding times able to be met? Yes 2 15. Was client notified of all discrepancies with this order? Yes 2 15. Was client notified of all discrepancies with this order? Yes	No 🗍 Not Present 🗍
Chain of Custody 1. Is Chain of Custody complete? Yes ✓ 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes ✓ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? Yes ✓ 6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes ✓ 10. Were any sample containers received broken? Yes ✓ 11. Does paperwork match bottle labels? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ 15. Was client notified: Date: By Whom: Via: eMail Regarding: Via: eMail	No 🗍 Not Present 🗍
1. Is Chain of Custody complete? Yes ✓ 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes ✓ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? Yes ✓ 6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes ✓ 10. Were any sample containers received broken? Yes ✓ 11. Does paperwork match bottle labels? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ Person Notified:	
2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 3. Was an attempt made to cool the samples? Yes ✓ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? Yes ✓ 6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes ✓ 10. Were any sample containers received broken? Yes ✓ 11. Does paperwork match bottle labels? Yes ✓ (Note discrepancies on chain of custody) Yes ✓ 12. Are matrices correctly identified on Chain of Custody? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ Person Notified: <t< td=""><td></td></t<>	
Log In 3. Was an attempt made to cool the samples? Yes 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 5. Sample(s) in proper container(s)? Yes 6. Sufficient sample volume for indicated test(s)? Yes 7. Are samples (except VOA and ONG) properly preserved? Yes 8. Was preservative added to bottles? Yes 9. VOA vials have zero headspace? Yes 10. Were any sample containers received broken? Yes 11. Does paperwork match bottle labels? Yes (Note discrepancies on chain of custody) Yes 12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? Yes 14. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes Person Notified: Date: By Whom: Via: eMail Regarding: Via: eMail	
3. Was an attempt made to cool the samples? Yes ✓ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? Yes ✓ 6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes ✓ 10. Were any sample containers received broken? Yes ✓ 11. Does paperwork match bottle labels? Yes ✓ 12. Are matrices correctly identified on Chain of Custody? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ Person Notified:	
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? Yes ✓ 6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes 9. VOA vials have zero headspace? Yes 10. Were any sample containers received broken? Yes 11. Does paperwork match bottle labels? Yes 12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? Yes 14. Were all holding times able to be met? Yes 15. Was client notified of all discrepancies with this order? Yes 15. Was client notified of all discrepancies with this order? Yes 15. Was client notified of all discrepancies with this order? Yes 	
5. Sample(s) in proper container(s)? Yes ✓ 6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes □ 10. Were any sample containers received broken? Yes □ 11. Does paperwork match bottle labels? Yes ✓ (Note discrepancies on chain of custody) Yes ✓ 12. Are matrices correctly identified on Chain of Custody? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ (If no, notify customer for authorization.) S ✓ Special Handling (if applicable) Date:	
6. Sufficient sample volume for indicated test(s)? Yes ✓ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ 8. Was preservative added to bottles? Yes ✓ 9. VOA vials have zero headspace? Yes □ 10. Were any sample containers received broken? Yes □ 11. Does paperwork match bottle labels? Yes ✓ (Note discrepancies on chain of custody) Yes ✓ 12. Are matrices correctly identified on Chain of Custody? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes □ Person Notified:	No 🗌 🛛 NA 🗌
7. Are samples (except VOA and ONG) properly preserved? Yes 8. Was preservative added to bottles? Yes 9. VOA vials have zero headspace? Yes 10. Were any sample containers received broken? Yes 11. Does paperwork match bottle labels? Yes (Note discrepancies on chain of custody) Yes 12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? Yes 14. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Yes Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes Person Notified:	No 🗌
 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes Person Notified: By Whom: Regarding: 	No 🗌
9. VOA vials have zero headspace? Yes 10. Were any sample containers received broken? Yes 11. Does paperwork match bottle labels? Yes (Note discrepancies on chain of custody) Yes 12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? Yes 14. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Yes Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes Person Notified: Date: Date: By Whom: Via: eMail Regarding:	No 🗔
10. Were any sample containers received broken? Yes 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes 12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? Yes 14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes Special Handling (if applicable) Yes 15. Was client notified of all discrepancies with this order? Yes Person Notified: Date: By Whom: Via: Regarding: Via:	No 🗹 NA 🗌
11. Does paperwork match bottle labels? Yes ✓ (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ 14. Were all holding times able to be met? Yes ✓ 15. Was client notified of all discrepancies with this order? Yes ✓ Person Notified: Date:	No 🗌 No VOA Vials 🗹
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? Yes ✓ 13. Is it clear what analyses were requested? Yes ✓ 14. Were all holding times able to be met? Yes ✓ (If no, notify customer for authorization.) Yes ✓ Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes ✓ Person Notified: Date:	No 🗹 # of preserved
12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? Yes 14. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Yes Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes Person Notified: Date:	No D for pH:
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes Person Notified: Date: By Whom: Via: Regarding:	No Asidered2
(If no, notify customer for authorization.) Special Handling (if applicable) 15, Was client notified of all discrepancies with this order? Yes Person Notified: Person Notified: By Whom: Via: eMail Regarding:	No 🗌
15. Was client notified of all discrepancies with this order? Yes Person Notified: Date: Date: By Whom: Via: eMail Regarding:	No Checked by:
Person Notified: Date: D	<i>,</i>
By Whom: Via:eMail Regarding:	No 🗌 NA 🗹
Regarding:	
	Phone Fax In Person
	A CARLES AND
Client Instructions:	
16. Additional remarks:	
1,7. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal No Seal Date	
1 2.4 Good Yes	Signed By

Page 1 of 1

Rec	eived	by (OCD:	1/1.	2/20	23 1	:44:	:171	PM _{	N JO	01	ir Bubbles (۲I	1	I.	I	I	1	I.	1	I	1	1	1	I	P	age 1	48 oj
	- i >											<u></u>	<u> </u>						-					1	14		PL LUCE	
	₹2																		-	-			·		~ S/.	511	80	
	zţ																								- is	•		
	Σġ	2	7109	2												-								†	65	•		:
	Ξâ		00 M	505-345-4107						(A	ΌΛ	-im98) 07S	8		1						-		—		4			
	ខ្លុ	{ :	Eal.c	345	Request						(AOV) 8085	8															
	Ë.		men	505			s'8	ЬС	2808	873	səp	ioitee9 180	3												Chlor.de			
	Σċ		environmental.com Albuguerque NM 87109	ь Чах Нах	lysis	(*	os'	₽O4	' ² 01	^{3،} د	DNC	⊡) =) enoin/	1 2	7	>	~	>	ĸ	א	メ	Х	X	Х	X	Adi C			
	HALL ENVIRONMEN		www.rialienvironmentai.com ns NE - Albuduerque NM 8		Ana							SCRA 8 Me													4		0	
י ו			ы. Л	505-345-3975			(9	SMI				0168) e'HA ^c															£ 2	
י ו ו			ww kins	45-5	$\frac{1}{2}$							odfe(Metho														5	0	
_			Haw	05-			-		_			PH (Metho		ļ			<u> </u>									201	0)	4
			www.ri 4901 Hawkins NE	Tel			_					8015B		<u> </u>	ļ			×		¥						100	page	
			4									BTEX + MTE													Remarks:	Ihajado	S	1
				T		(051)8) s	'am I	⊥ + r	3E	3TEX + MTE] 		 			X		×					Re	<u> く</u>		
			×									5		6				-								19.2	Ę	91/18 440
	/		Ditch					~	2			HEAL No. Stod R.3	8	600	8	84	SQS	9 Q	ц	88	<u>8</u>	010	011	e 10	Time	Ň	Time	ר
	au	\square	$\overline{\mathbf{A}}$					מא ז	4			HEAL No.						C	Ø	Ø	0	0	0	ō		11		8
	-d		X					r L	100	٩		× 3	7							1					- Date	1201	Dat	
	KRush 5 dae		lcCormick				c	de la	3		17		-	-		<u> </u>										7		ישי
	Rus		orn					Z	2			ativ)
ne:	Å	1	C C C			<u>.</u>		2	n/m	Aes	ature	eserval Type			i													
d Tir	q	ne:	2			lage		F	192	Ż	nper														l	\setminus		\mathbf{M}
I urn-Around Time:	Standard	Project Name:	X	#		Project Manager:	5	Inu	J		Sample Temperature:	Container Type and #													, p,	\mathcal{A}	ج ق	
Irn-A	Sta	oject	Zack	Project #:		oject		L	Sampler:	On Ice:	Jd m	Conts (pe a	402.	5	5	1	Ŧ	Ŧ	٤	-	7	a I	"	Ľ	Received by	Ĺ	ور hy کور hy	- 1
-		ፈ		م	<u> </u>	٦ ۲			Sa	ò	Sa														Rec		Red	
								ion)				Q	horth								i							estimited to Hall Environmental may have subcontracted to other according laboration
oro								alidat				lest	2															4 New
С С	0							Level 4 (Full Validation)				Sample Request ID	10															nenta
Ř	Carlsbag							4 (FL				le R	gation								4	\sim	2	5			ι.	Miroor
ð	2							vel 4				amp	19	6	7	\mathbb{S}	4	2	\sim	ア	5	$\widetilde{\mathcal{N}}$	37	13		ŝ		
sto	2							П				Š	IN	SP	SP2	303	SP4	632	133	137	Sw54	<u>56033</u>	3	「		\sim	ž	
л С	7							_	:	Other		, ir				-	-				Ť	5	-	_	ished	<u>ب</u>	indusitied by:	
5 -1-1									(Matrix	Soi/	ت	1,1	5	-	ت	-	×		j.	*	*	Relinquished by:	<u> </u>	-	
Ĭ	SMA		ess:			#	:e:				()	·	· · · · · ·		2	0 f	No	~	v	5	0	0	5					
Chain-of-Custody Record	S		Mailing Address			email or Fax#:	QA/QC Package:	ard	ation	<u>م</u> ا	EDD (Type)	Time	50:8	8:00	9 :15	01:10		9:07	9:25	3:45	3:30	00:01	51:01	21:01	Time:	F/20/18 090	Time:	N ^{ess}
ΰ	nt:		ling /		Phone #:	iil or	ЗС Р.	Standard	Accreditation			te 							-			\rightarrow		-	<u>⊢</u>	र्चे	<u>ب</u> ک	_
	Client:		Mail		Pho	ema	QAK	S S	Acc	∠ □		Date	4/18/18	· •	;	=	=	:	3	5	5	1	5	ţ	Date:	1201	Date:	
Rela	eased	to I	magi	ng: .	3/20	/202	3 8:	:01:1	10 A	м			4	•	'	•	'			1	'	1	I	I	•	۲.,		~

	Chain.	-of-Cu	Chain-of-Custodv Record	Turn-Around Time:	Time:												
Client	AMA	V - H	Parichad			Edau					Ш ; _! '	Z	IRC	Ž	۲ ۲	ENVIRONMENTAI	
l to Ii			Dr. G. C. W	Project Name:		- II			۹	Z	Ĭ	SIS	S :	D B C B C	R.	ANALYSIS LABORATORY	
•	Mailing Address:			7 ack	M. Co.	Comice Difeh		4901	4901 Hawkins NF	WWW.	' m		www.nailenvironmental.com ps NF - Alburnitardue NM 87100		0017		CD:
ng: 3,				Project #:				Tel. E	Tel. 505-345-3975	12-397		Fax 5	505-345-4107	5-410	en 2		1/12
:# enone #:	#:										Anal	ysis R	Analysis Request	st			/202
	email or Fax#:			Project Manager:	ger:												3 1:
	QA/QC Package:			5							(5		s,8(44:1
Clandard	ndard		Level 4 (Full Validation)	NHSWH	in wer	lant					MIS		5 bC				7 P]
	Accreditation			Sampler: JAU	ru/nk	s/cm					<u> </u>		2808				M (r
	NELAP	□ Other)r	On Ice:	ъÝes	Ó No								(¥			<u>1 10</u>
	EDD (Type)			Sample Temperature:	berature:	24) (
Date	Time	Matrix	Sample Reguest ID	Container	Preservative	HEAL NO.	TM + >	TM +) 	(Wetµc	odie(Metho	of €8) e 9M 8 A) si	Pestic Pestic	·imə2)			səlqqr
				Type and #	Type	1404837											Air Bu
4/18/18	g 10:30	Seil	ഡ്.38	402.		013				-			<u> </u>				/
-	10:37	н	SW39			PI0						×					
1	10:07	'n	SW32	•		<i>SIO</i>						×					
51	10:17	н	SW36	11		910						×					
ء	9:57	:	Sw3+	-		LIQ						*					
:	11:43	r	F4-1	-		018						. ×					
ک	00:11	;	F4-05	-		019						*					
5	11:20	ŗ	F3-	3		090						*					
÷	11:15	1	F3 Surface	×		0 <i>2</i> 1		_				×					
4	11: 30		F1-0.5	1		0						¥					
a	11:35		F1-1	11		სგა						x					
*	11: 40	۱, I	F1-2									×					
Date:		<u> </u>	· · · · · · · · · · · · · · · · · · ·	Received by:		Date Time	Ren	rks:									
A/20/18		N ^C	2 4			2	•	1011	Irlatador	7	Į						Pag
	.em			verdelyed by			ď.	age	2	0 1	Ŋ						ge 14
Sleed/	01/	V		TT CAL	J	181 18		,									(9 q)
	If necessary, samples		submitted to Hall Environmental may be subcontracted to other accredited laboratories.	contracted to other act	credited laboratorie	s. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	possibili	y. Any :	sub-cont	acted d	ata will be	e clearly i	notated o	on the ar	hahytical n	eport.	f 16.
																	1

Con o		Г		•		_	-			2	Y		5	2	•
1	Carlsbad	□ Standard	g Rush	& Rush 5 day			- •								· . >
		Project Name:			1				hallen		www.hallenvironmental.com		5		
Mailing Address:		Zack M	Mc Cormick	K Dirch		4901	4901 Hawkins NE	úns N		puque	Albuquerque, NM 87109	NM 87	109		
		Project #:			I	Tel.	505-3	505-345-3975	10	Fax	505-345-4107	5-410	~		
									Ana		Request	st			
		Project Manager:	ler:				((†(
QA/QC Package: □ Standard	Level 4 (Full Validation)	Austi	Austin Weyan	ian t					(SMI	PO4,5C	PCB's				
		Sampler:	N/ MK	1/1cm					S 02	10 ⁵⁾	280				,,
Other	ther		E Yes								8/	(A			
		Sample Temperature:	erature: 2	4											
Time Matrix	ix Sample Request ID	Container F Type and #	Preservative Type	HEAL NO.	TEX + MT	BTEX + MT	ТРН (Metho ТРН (Metho	EDB (Wetho	PAH's (8310 PAH's (8310) enoinA	sitea Pestic	40V) 80828 -im92) 0728			Air Bubbles
7:15 Soil	FBG1	402		-0000-						×.					
//:20 "	FBG2	11		0310						8					
1:45 "	FBG 3	7		-037						۶					-
4:04 "	FBG 4	11		-038						X					
12:07 "	Sw46	11		-039						¥					
12:11 .	SW47.	84		-030						7					
/0: 27	L-38	1 _t		-031	۲ ا	R				×					
/2:30 t	Sw.41	=		-033						×					
12:36 2	Sw 4-0	ĸ		-033						×					
<i>12:</i> 2 / 2:	SW43	t,		124						×					
12:46 1	Sw42	÷		-035						×					
1:37 "	SWSO	=		-0310						ト				- -	
	Relinquished by:	Received by:	. ~~	Date Time	Remarks	arks:									
420/18 CAW M.	ang an	1 h		4/24/18 082	N.	27 2	Matador	ι.							
Kelino	shed by:	Hacewood of	_		Pag	96	3	×°	5						
			X	1/21/18 440											

Address: $Zack Manger:$ # # # Project Nanager: $rFax#$: Project Manager: $redage$: $Package$ $redage$: $Package$ $redage$: $\Box ck Mi$ $redage$: $Coutainer$	Client:	ら)-HU	Smp-Carlsbad	□ Standard	لم Rush	hap c			. <	ANAL	צ				VSTS I ABOPATOE		. >
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					Project Name			.			www.h	allenv		ental.c		5	2	
Полования <	Mailing ,	Address				Mc Com	-		4901	Hawkii	s NE	1	nquer	que, h	VM 87	109		
Analysis Records * Folict Project Manager: Of Folict Project Manager: Analysis Records Project Manager: Analysis Records Project Manager: Analysis Records Project Manager: Analysis Records Analysis Records Bandle: Differ Container Project Manager: Analysis Records Project Manager: Proje								1	Tel. 5	05-34	5-397:		ax 5(5-34	5-4107			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Phone #											Analy	rsis R	eques	st			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	email or	Fax#:			Project Mana	iger:												
Itation Sample: $\sqrt{rev} / \Lambda \mathcal{L} \sqrt{L} (L \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} L$	QA/QC F	ackage: lard		Level 4 (Full Validation)	Aus		yant				(21/15			8.804 i				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Accredit	ation	□ Othe		ц.	AW/ NL	s/6m							7808 /	(\			
Time Matrix Sample Request ID Container Preservative HEAL No. 1/192 <i>foi 1</i> $\frac{1}{2004}$ $\frac{1}{1200}$ $\frac{1}{1000}$ $\frac{1}{1200}$ $\frac{1}{1000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{100000}$ $\frac{1}{10000000000000000000000000000000000$		(Type)			Sample Tem													
\$1:92 Goil Gwdt 702. -037 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102 102	Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4/18/18	1:42		SwSI	402.		-037								L			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	2:07		4	*		-038						<u> </u>					
$I:32$ \sim L50 \sim -041 x x $I2:/5$ \sim L44 v -041 x x $I2:/5$ \sim L41 v -041 x x x $I:75$ \sim L41 v -043 x x x x $I:75$ \sim Sw49 v -043 x x x x $I:2:03$ \sim L44 v -043 x x x x $I:2:03$ \sim L44 v -043 x x x x x x $I:33$ \sim Sw49 v -043 x		2:15		4	2		039			 			7					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1:32		150	\$		0ha-	x		×			Y					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		12:15		L44	ų		140-						Y					·
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		12:48		141	5		eho-	X		¥			۲					· .
12:03 · L+Le · · · · · · · · · · · · · · · · · · ·	>	57:1		Sw49	1		-043											
1:33 · GW48 · DU 3:06 · GW55 · OU 3:18 · GW52 · DU 3:30 · GW53 · DU Time: Relinquished by: Time: Relinquished by: CAIRD M. Campon Received by: Time: Relinquished by: Time: Relinquished by: Time: Relinquished by: Time: Relinquished by: Date Time Page Aor 5 Page Aor 5	4	12:03	¥.	L+L0	1		-Dily	*		×			, ,					
3:06 ° SW55 · Dur		1:33		Sw48	1		- D45						ト					
3:18 " (W52 " UD4) I UU Relation I I I I I I I I I I I I I I I I I I I		30:5		SW55	•		-otho-						Y					
3:30 · SW53 · Date Time Remarks: Time: Relinquended by: Received by: Date Time Remarks: Office M. Sampari Received by: Date Time Remarks: Time: Relinquended by: Date Time Page 4075		3: 18		SW52	۰, ۲		Lha						X					
Of its M. Samjari Rebendadoy: Hadrig 092 Matad Time: Relinquistred by: Rebendadoy: Date Time Pagt		3:30 Time	Relinctuishe	Sw53	k. Receivedthy:		ð.						~					
Time: Relinquising by: Redended by: Redended by: A Relinquising by: Page		3910)	M.	Sampan.	J.	Z	16		े रे	6 0	10							
			<u>t</u>	pd by:			Date T		a)		407	5						

CIMA - Corrictor Control of Algorithme Address: Zack Mic Circuit & Mich Diglet Name: November (Control of Algorithme) Address: Zack Mic Circuit & Mich Address: Zack Mich Circuit & Mich Project ## Project Manage: Project ## Project Manage: Address: Project ## Address: Project Manage: Address: Project ## Address: Project ## Project ## Project ## Project ## Project ## Address: Project ## Address: Project ## Project ## Project ## Project ## Project ## Address: Project ## Project ## Projec	Ü	-uiar	of-CL	Chain-of-Custody Record	Turn-Around Time:	Time:			100	100		1	i		Ì	2			Rece	
Address: Droject Name: Monthal John Address: Zurk M. Cirrurick Aird, Zurk M. Cirrurick Aird, Flack: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Chose Address: Address: Addres: Addres:	Client:	S	- Hu		C Standard	X Rush	5 day					Į		ΣĽ	¥ ^		MEN	I AL	vived	
Address: Zuck McLennick Mrks Lie Rocade and the mage: Lie Rocade and the mage: Address: Addres: Addres: Addres					Project Name	Secto	>				NUN	i d w	anvir						by C	
Project #: Tel 565-305 Fas 565-305	Mailing A	ddress:			Zack N	Re Corn	ich bitch		4901	Hav	kins	E E E	Albu	auero	due.	NN 8	7109)CD:	
Andress Recruest Findet: Findet: Project Manager: Project Manager: Project Manager: Recruest Project Manager: Recruest Recruest Recruest Recruest Recruest Recruest Recruest Recruest Recruest Recruest Resteration Recruest Resteration Recruest District L. Level 4 (Full Validation) Matter Matter Recruest District District Recruest Resteration Recruest Resteration Recruest Resteration Recruest District L. Stample Recruest ID Container Preservation Recruest Resteration Recruest Resteration Remain Life V V Recruest Resteration Recruest Resteration Remain Life V V Recruest Resteration Recruest Resteration Remain Life V V V Recruest Resteration Recruest Resteration Remain Life V V V					Project #:			_	Tel.	505-	345-3	975	ш	ax 50	5-34	5-41	27		1/12	
Fack: Project Manage: Project Manage:	Phone #:											4	nalys		anba	st			2/202	
another another Act Art A The I Art And Anton Art Art A Art Art And Anton Art Art And Anton Art Art And Anton Art Art And Anton Barry Art And Anton Time Markit Sample Temperature: Z 4 Type Barry Art And Anton Rec Art B Barry And Anton Time Markit Sample Temperature: Z 4 Type Type Barry And Anton Barry And Anton Time Markit Sample Temperature: Z 4 Type Type Barry And Anton Barry And Anton Type Art D Contrainer Z 4 Time Markit Sample Temperature: Z 4 Type Type Barry And Anton Barry And Anton Time Markit Sample Temperature: Z 4 Time Markit Sample Temperature: Z 4 Time Markit Sample Temperature: Z 4 Time Markit The Anton Barry Anton Time Markit The Anton Markit Time Markit The Anton Markit Tindo Y Y Y <	email or I	-ax#:			Project Mana	ger:		((0)			1	_		-			23 1:	
Internation	QA/QC Pa	ickage:			0		4	S02)				(SV		000000	ร.ศา	-			44:1	
Difficient Contrainer Sample: M.C. W.M. W.C.M. The Image: Sample: Sample: Sample: Sample: Marrix Sample: Sample: Marrix Marrix Sample: Marrix Mar	C Stand	ard		Level 4 (Full Validation)	Hust	n we	1 ani) s,{		<u>о</u> но		VIS			47	_	_	_	7 P	-
W Other Onlos: Drafts Drafts <thdrafts< th=""> <thdrafts< th=""> <thdrafts< th=""></thdrafts<></thdrafts<></thdrafts<>	Accredita	tion	0		e	10/120	1/1047	LME					7.53	1.1.1	202			-	M(N	
Time Matrix Sample Temperature: Z4 Time Matrix Sample Recuest ID Contrainer Freservative Time Matrix Sample Recuest ID Contrainer Freservative Time Matrix Sample Recuest ID Contrainer Freservative 7:30 priot F F F F 7:10 v L54 F F F 7:20 v L54 F F F 7:20 v L52 v F F 1:30 M M M 1:10 <		2	Othe		On loe:	E Yes	O No	L +			_	-		210	15	(A		_	110	
Time Matrix Sample Request ID Container Preservative 13:30 avit L54 Hol Type and # Type 13:30 avit L54 Hol No B031 Peadu 14:30 v L52 v Anions (F.O. 17:30 v L52 v Anions (F.O. 16:30 v L52 v Anions (F.O. 17:30 v L52 v Anions (F.O. 17:30 v L52 v Anions (F.O. 17:30 v L52 v Anions (F.O. 11:00 n D55 r V B031 Peadu 11:00 n D55 r V D55 11:00 n D5 D5 D5 11:00 n D5 D5 D5 </td <td></td> <td>Type)</td> <td></td> <td></td> <td>Sample Temp</td> <td>perature:</td> <td>62</td> <td>38.</td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>1000</td> <td></td> <td></td> <td>_</td> <td>) X)</td> <td></td>		Type)			Sample Temp	perature:	62	38.			_				1000			_) X)	
3:30 pril L54 +2		Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	181	TM + XJT8											Air Bubbles	
7:00 V L52 ·· · DSD × × · I · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·		3:30	Ceil	LS4	402		940-	×	1000	0				-	-	-				
1:30 " [48] " OS K N N N 1<30		00:4	4	152	u.		250	×	~	~										
Image: Image:<		: 36	'n	L48	u,		Isa	5	>						-	_				
Image: Non-Amplitude Image: Non-Amplitude Image: Non-Amplitude Image: Non-Amplitude Non-Amplitude Non-Amplitude																				
Time: Reincusted by: Date Time Time: Reincusted by: Date Time Time: Reincusted by: Date Time Reincusted by: Remarks: Date Time Reincusted by: Remarks: Date Time Reincusted by: Reincusted by: Date Time Reincusted by: Reincusted by: Date Time Reincusted by: Reincusted by: Remarks: Reincusted by: Reincusted by: Remarks: Reincusted by: Remarks: Remarks: Reincusted by: Remarks: Remarks: Reincusted by: Remarks: Remarks: Reincusted by: Remarks: Remarks: Remarks: Remarks: Remarks: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\vdash</td> <td>-</td> <td></td> <td></td> <td>\vdash</td> <td>\vdash</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>									\vdash	-			\vdash	\vdash	-	-				
Ime: Reinquished by: Date Time Reinquished by: M. Gany and Peccepted by: Date Time: Reinquished by: Date Time Reinqueted by: M. Gany and Matador Time: Reinqueted by: Date Time Reinqueted by: M. Gany and Matador Time: Reinqueted by: Date Matador Time: Reinqueted by: Date Matador Time: Reinqueted by: Date Time Reinqueted by: Matador Page 5 of 5															$\left \right $					
Time: Relinquished by: Date Time Constrained by: Constrained by: Constrained by: Date Constrained by: Constrained by: Constrained by: Constrained by: Constrained by: Constrained by: Constrained by: Constrained by:									+		_		-	-		-				
Time: Relinquished by: Date Time Remarks: M. Only on M. Only on Remarks: Matador M. Only on M. And on Date Time M. Only on Matador Date Time M. Only on Matador Date Time M. Only on Matador Date Time M. Only only only only only only only only o									-		_			-	_	_				
Time: Relinquished by: Received by: Date Time Remarks: 900 M. Jony and M. Jony and M. Jony and Mat a do r 100 M. Jony and Date Time Remarks: 100 M. Jony and Date Time Remarks: 100 M. Jony and Date Time Remarks: 100 M. Jony and Page 5 of 5 Set 5 100 M. Jony and the subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.																				
Time: Refine wheth by: Referring the base Time base Time and the time base time base to base the time base of the base base base base base base base bas			Relinquish	2	Received by:	7	Time	X	arks:	10	1		1	-	-	-				_
aboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.			N	ed by:	Referinged by:	A	Date Time		292	5	to	5							age 152	
	If ne	cessary, s	samples sub-	mitted to Hall Environmental may be subco	ontracted to other ac	10		a possibi	ility. Am	/ sub-oc	intracte	data 1	vill be d	carly n	otated	on the	analytical rep	, Lio	of 1	



November 01, 2018

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

RE: Zach McCormick

OrderNo.: 1810E24

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 14 sample(s) on 10/27/2018 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

Page 1 of 4

.

Hall Environ	mental Analysis Lat	ooratory,	Inc.			L	ab Order: 18 ab Reported	- 810E24	/2018
	Souder, Miller & Associates Zach McCormick				L	ab O	order:	1810F	E24
Lab ID:	1810E24-001		С	ollecti	on Date	: 10/	/25/2018 9:	00:00 A	АМ
Client Sample ID:	SW47				Matrix	: SO	IL		
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	ND	30		mg/Kg	20	10/31/2018		alyst: smb 6 PM 41286
Lab ID:	1810E24-002		С	ollecti	on Date	: 10/	/25/2018 9:	31:00 A	AM
Client Sample ID:	SW23				Matrix	: SO	IL		
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Batch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst: smb
Chloride		ND	30		mg/Kg	20	10/31/2018	5:35:3′	1 PM 41286
Lab ID:	1810E24-003		С	ollecti	on Date	: 10/	/25/2018 9:	12:00 A	AM
Client Sample ID:	SW44				Matrix	: SO	IL		
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Batch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst: smb
Chloride		ND	30		mg/Kg	20	10/31/2018	5:47:56	6 PM 41286
Lab ID:	1810E24-004		С	ollecti	on Date	: 10/	/25/2018 9:	18:00 A	AM
Client Sample ID:	SW43				Matrix	so:	IL		
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Batch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst: smb
Chloride		ND	30		mg/Kg	20	10/31/2018	6:00:2 [,]	1 PM 41286
Lab ID:	1810E24-005		С	ollecti	on Date	: 10/	/25/2018 9:	22:00 A	AM
Client Sample ID:	SW29				Matrix	so:	IL		
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Batch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst: smb
Chloride		ND	30		mg/Kg	20	10/31/2018		-

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method I	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Pag
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 45
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	

Page 2 of 4

.

Hall Environ	umental Analysis Lat	ooratory,	Lab Or	tical Report der: 1810E24 eported: 11/1/2018
	Souder, Miller & Associates Zach McCormick		Lab Order	: 1810E24
Lab ID:	1810E24-006		Collection Date: 10/25/20)18 10:30:00 AM
Client Sample ID:	SW2		Matrix: SOIL	
Analyses		Result	PQL Qual Units DF Date	e Analyzed Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	ND	30 mg/Kg 20 10/3	Analyst: smb 1/2018 6:25:10 PM 41286
Lab ID:	1810E24-007		Collection Date: 10/25/20)18 11:07:00 AM
Client Sample ID:	Irr. South		Matrix: SOIL	
Analyses		Result	PQL Qual Units DF Date	e Analyzed Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	ND	30 mg/Kg 20 10/3	Analyst: MRA 1/2018 6:46:30 PM 41296
Lab ID:	1810E24-008		Collection Date: 10/25/20)18 10:51:00 AM
Client Sample ID:	L50		Matrix: SOIL	
Analyses		Result	PQL Qual Units DF Date	e Analyzed Batch ID
EPA METHOD 30	0.0: ANIONS			Analyst: MRA
Chloride		ND	30 mg/Kg 20 10/3	1/2018 6:58:55 PM 41296
Lab ID:	1810E24-009		Collection Date: 10/25/20)18 11:17:00 AM
Client Sample ID:	L46		Matrix: SOIL	
Analyses		Result	PQL Qual Units DF Date	e Analyzed Batch ID
EPA METHOD 30	0.0: ANIONS			Analyst: MRA
Chloride		ND	30 mg/Kg 20 10/3	1/2018 7:36:08 PM 41296
Lab ID:	1810E24-010		Collection Date: 10/25/20)18 11:23:00 AM
Client Sample ID:	L44		Matrix: SOIL	
Analyses		Result	PQL Qual Units DF Date	e Analyzed Batch ID
EPA METHOD 30	0.0: ANIONS			Analyst: MRA
Chloride		ND	30 mg/Kg 20 10/3	1/2018 8:13:22 PM 41302

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method I	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Pag
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 45
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	

Page 3 of 4

.

Hall Environ	mental Analysis Lat	ooratory, I	nc.			Ι	Analytical Report Lab Order: 1810E24 Date Reported: 11/1	ļ
	Souder, Miller & Associates Zach McCormick				L	ab C)rder: 1810	E24
Lab ID:	1810E24-011		C	ollecti	on Date	: 10	/25/2018 11:46:00	AM
Client Sample ID:	L41				Matrix	: SC	DIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300 Chloride).0: ANIONS	ND	30		mg/Kg	20		alyst: MRA 6 PM 41302
Lab ID:	1810E24-012		C	ollecti	on Date	: 10	/25/2018 12:07:00	PM
Client Sample ID:	L9				Matrix	: SC	DIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	ND	30		mg/Kg	20		alyst: MRA 0 PM 41302
Lab ID:	1810E24-013		C	ollecti	on Date	: 10	/25/2018 12:32:00	PM
Client Sample ID:	L5				Matrix	: SC	DIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300 Chloride).0: ANIONS	ND	30		mg/Kg	20		alyst: MRA 4 PM 41302
Lab ID:	1810E24-014		C	ollecti	on Date	: 10	/25/2018 12:21:00	PM
Client Sample ID:	L6				Matrix	: SC	DIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	ND	30		mg/Kg	20		alyst: MRA 9 PM 41302

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method E	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 45
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		r, Miller & Associates AcCormick			
Sample ID	MB-41296	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 41296	RunNo: 55324		
Prep Date:	10/31/2018	Analysis Date: 10/31/2018	SeqNo: 1840446	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-41296	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 41296	RunNo: 55324		
Prep Date:	10/31/2018	Analysis Date: 10/31/2018	SeqNo: 1840447	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 94.0 90	110	
Sample ID	MB-41302	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 41302	RunNo: 55324		
Prep Date:	10/31/2018	Analysis Date: 10/31/2018	SeqNo: 1840477	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-41302	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 41302	RunNo: 55324		
Prep Date:	10/31/2018	Analysis Date: 10/31/2018	SeqNo: 1840478	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 94.1 90	110	
Sample ID	MB-41286	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 41286	RunNo: 55292		
Prep Date:	10/31/2018	Analysis Date: 10/31/2018	SeqNo: 1840690	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-41286	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 41286	RunNo: 55292		
Prep Date:	10/31/2018	Analysis Date: 10/31/2018	SeqNo: 1840691	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		15 1.5 15.00		110	

Qualifiers:

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

Page 4 of 4

- WO#: 1810E24
 - 01-Nov-18

Received by OCD: 1/12/2023 1:44:17 PM

ANALYSIS LABORATORY	Environmental Analysis Labora 4901 Hawkin Albuquerque, NM 83 : 505-345-3975 FAX: 505-345-4 'ebsite: www.hallenvironmental.	NE 7109 San 1107	nple Log-In Check List
Client Name: SMA-CARLSBAD Work	Order Number: 1810E24		RcptNo: 1
Received By: Isaiah Ortiz 10/27/20	18 9:10:00 AM	IGN	-
Completed By Isaiah Ortiz 10/29/20	18 12:06:39 PM	Iat	
Reviewed By 30 10/29 LB: DAD 10/29/18 Chain of Custody	15		
1, Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?	Courier		
	<u>oodiidi</u>		
Log In	¥ 17	No 🗌	
3. Was an attempt made to cool the samples?	Yes 🗹	NO L	NA
4. Were all samples received at a temperature of >0* C to	06.0°C Yes ☑	No 🗌	
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 preserve			
 B. Was preservative added to bottles? 	Yes		NA 🗆
o, mas preservative added to bottles .	160 [
9. VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🗹
10, Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes 🗹	No 🗆	for pH: (<2 or >12 onless noted)
2, Are matrices correctly identified on Chain of Custody?	Yes 🖌	No 🗌	Adjusted?
 Is it clear what analyses were requested? 	Yes 🗹	No 🗌	
14. Were all holding times able to be met?	Yes 🗹	No 🗆	Cheaked by: DAD 10/29/18
(If no, notify customer for authorization.)			/
Special Handling (if applicable)			
15. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date:		
By Whom:	Via: 🗌 eMail 🗌 P	hone 🗌 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
1 2.1 Good Yes			

Page 1 of 1

	Time Matrix Sample Name Type And # Type 1 310 C30 (Sen Type 1 31	De() # of Coolers: / i-V() TBE 0 d d d d d d d d d d d d d d d d d d	□ Other On loc: X Yes □ No 1, T T Other Solution (AC)		AALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Aalysis Reque, NM 87109 Aalysis Fax 505-345-4107 Aalysis Reque, NM 87109 Aalysis Requesting Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis Aalysis		3 3 22 U 10/600 00/09/00 0/17	B081 Pesticides/8082 PCB's 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </th <th>COOBBBBBBBBBBBBB</th> <th>e: A Rush e: A MCC SH'n We Kes Type Type Type</th> <th>Project Nam Project Nam Project Han Project Han Project Han Cooler Temp Cooler Temp And # And # Received Nam</th> <th>Level 4 (Full Validation) Compliance ar Compliance ar Semple Name Semple Name Semple Name Sem 4-7 Sew 4-7 Sew 2-7 Sew 2-3 Sew 2-3 Sew</th> <th>Matrix Del Del Az C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th> <th>Mailing Addr Phone #: email or Fax: QA/QC Packa QA/QC Packa Caving Addr Date Time Date Time Date Time Date Time Date Time Date Time Date Time</th>	COOBBBBBBBBBBBBB	e: A Rush e: A MCC SH'n We Kes Type Type Type	Project Nam Project Nam Project Han Project Han Project Han Cooler Temp Cooler Temp And # And # Received Nam	Level 4 (Full Validation) Compliance ar Compliance ar Semple Name Semple Name Semple Name Sem 4-7 Sew 4-7 Sew 2-7 Sew 2-3 Sew	Matrix Del Del Az C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mailing Addr Phone #: email or Fax: QA/QC Packa QA/QC Packa Caving Addr Date Time Date Time Date Time Date Time Date Time Date Time Date Time
AN	Soil Sw47 Att. -001 Sw23 -003 -001 Sw44 -003 -003 Sw43 -004 -003 Sw43 -004 -003 Sw43 -004 -004 Sw2 -004 -004 Sw2 -004 -004 In. Journ -006 -006 L50 -006 -006 L44 -010 -010 L41 -010 -010	Time Matrix Sample Name Cooler Temposseuse: 2.1 Matrix Sample Name B270 (Sample Name 7:31 7:31 5.0473 47. 7.90 812.0 8270 (Sample Name 8270 (Sample Name 9:12 0.0471 47. 7.90 2.01 817.0 8081 Pesitive 9:12 0.0447 47. 7.003 7.003 7.003 8081 Pesitive 9:12 0.0447 7.003 7.003 7.003 7.003 8081 Pesitive 9:12 0.0447 7.003 7.003 7.003 7.003 7.003 7.003 9:12 0.0443 7.0044 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003 7.003	Beil # of Coolers: # of Coolers: # of Coolers: # of Coolers: 2.1 1.1 1.1	Att Complete Control Control Contor Control Control Control Control Matrix Sample Name Control Matrix Sample Name Total BTEX / MTBE / Th Control Total Control Control Control Control Freesevative HEAL No. Total Control Freesevative HEAL No. Total Control Control Control Control Control Freesevative HEAL No. Total Control Control Control Control Control Control Control Control Control Freesevative HEAL No. Total Control Control Control Control Control Control Control Control Control Freesevative HEAL No. Total Cwt 4-3 Control Control Control Cwt 4-3 Cwt 4-3 Control Control Cwt 4-3 Cwt 4-4 Control Control Cwt 4-4 Cwt 4-4 Control Control Cwt 4-4 Cwt 4-4 Control Con 1 Cut 4-4			N	marks:	Time	/via:	Received by	thed by:	Reline	
Define field her Dare Mar Mist Data Time	Sail Sw471 Ap. -001 Sw23 Sw23 -003 -001 Sw44 Sw43 -003 -001 Sw43 Sw43 -001 -003 Sw43 Sw43 -001 -003 Sw43 Sw43 -001 -001 Sw27 Sw23 -001 -001 In. Jouth In. Jouth -001 -001 L44 -011 -011 -011	Time Matrix Cooler Templocuesor: 2.1 Time Matrix Sample Name Cooler Templocuesor: 2.1 Time Matrix Sample Name Cooler Templocuesor: 2.1 9:17 100 Soil Suite Preservative BTEX.1 9:12 0.047 4Pt. -001 BTEX.1 Matrix 9:12 0.044 -001 BTEX.1 Preservative 9:12 0.044 -001 BTEX.1 Matrix 9:12 0.044 -003 -001 BTEX.1 10:20 Stw 4-3 -001 EDB (Methin) -001 11:01 10:.004 -003 -004 -003 11:01 10:.004 -003 -004 -003 11:01 10:.004 -003 -004 -003 11:17 11:10 10:10 -003 -004 11:12 11:10 -003 -011 -012	Bit Matrix Sample Name # of Coolers: A in Sample Name EMatrix Embraneary or: 2. / in Sample Name Type and # Type BTEX / MTBE in Sun 43 Container Preservative EDB (Method in Sun 43 Ant - 001 BTEX / MTBE in Sun 43 - 001 BTEX / MTBE Preservative in Sun 43 - 003 BTEX / MTBE Preservative in Jut Ant - 003 BTEX / MTBE Preservative in Jut Jut - 003 BTEX / MTBE Preservative in Jut Jut - 003 Preservative No in Jut Jut - 003 Preservative No in Jut Jut - 003 Preservative No in Jut Jut - 003 Preservative Preservative in Jut Jut <	Att Complete Control Control Control Control Control Co		2		_	019		P	[-]	5	
A L9 -013 Balin Michael hur Data Tima	Smill $5m47$ Arg. -001 $5m1$ $5m23$ -001 -001 $5w23$ -001 -003 $5w45$ -001 -001 $5w23$ -001 -001 $5w23$ -001 -001 $5w23$ -001 -001 $5w21$ -001 -001 $1m. Journal -001 -002 1m. Journal -002 -002 1m. Journal -002 -002 1m. Journal -002 -002 $	Time Matrix Sample Name Cooler Templotation 2.1 Time Matrix Sample Name Container Preservative HEAL NO. Matrix Sample Name Container Preservative No.4 Matrix Sample Name Container Preservative No.4 Matrix Sample Name Container Preservative No.4 Matrix Sample Name Matrix Sample Name Container Preservative No.4 Matrix Matrix Sample Name Matrix Sample Name Matrix	B0 # of Coolers: # of Coolers: 6 Matrix Sample Name # of Coolers: 7 0 5ail Container Freesvative 17pe and # Type HEAL NO. EDB (Method 231 5w 47 -001 BTEX/ MTBE 18 5w 47 -001 BTEX/ MTBE 18 5w 47 -001 BTEX/ MTBE 19 5w 47 -001 BTPH:80150(Git 19 5w 43 -000 107. 11 5w 43 -000 107. 11 104.1 -000 107. 11 104.1 -000 107. 11 104.1 -000 107. 11 104.1 -000 107.	Interference Samper: MS Interference Interference Samper: MS Interference Interference Samper: MS Interference Interference Samper: MS Interference Interference MS Samper: Interference Matrix Samper: MS Interference Matrix Sample Name MS Interference MS MS MS Interference MS	_	1	_	_	110-		_	141	Flo ,	
6 1 1 4 1 -011 1 1 1 -012 Delination his Data Time	Sail $5w47$ $42.$ $-\infty1$ $5w23$ $-\infty23$ $-\infty23$ $5w44$ $-\infty03$ $-\infty03$ $5w43$ $-\infty03$ $-\infty03$ $5w43$ $-\infty03$ $-\infty03$ $5w27$ $-\infty03$ $-\infty01$ $5w27$ $-\infty01$ $-\infty01$ $1n. Jouth$ $-\infty02$ $-\infty02$ $11n. Jouth$ $-\infty03$ $-\infty03$ 1416 $-\infty03$ $-\infty03$	Time Matrix Sample Name Cooler Templeuses or: 2./ Time Matrix Sample Name Container Preservative HEAL NO. 51 5 5 0 5 9081 Pessiti 7:31 5 5 0 5 9081 Pessiti 7:32 7 7 7 7 7 7:31 5 5 402.3 7 7 82560 (VOA 7:12 5 5 7 7 7 7 7:12 5 5 7 7 7 7 7:12 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 5 5 5 5 5 5 8 7 7 7 7 7 7 8 7 7 7 7 7 7 8 7 7 7 7 7 7 8 7 7 7 7 7 7 8 7 7 7 7	B # of Coolers: # of Coolers: # Matrix Sample Name # of Coolers: 0 Seil Cutainer Preservative Type and # Type Type Type and # Type Type Type and # Type EDB (Method Sil Suv 43 -001 BTEX/ MTBE Type and # Type -003 EEDB (Method Type and # -003 -004 -003 T Suu 43 -004 -004 T 10.100 -003 -004 T -004 -004 -004 T -003 -004 -004 T -004 -004 -004 T	There Matrix Sampler MC Differ Matrix Sampler MC Differ Matrix Sample Name Matrix Imatrix Sample Name Type and # Type Imatrix Sample Name Type Antrix Imatrix Sample Name Type and # Type Imatrix Sample Name Type Antrix Imatrix Sup 44 Antrix Antrix Imatrix Sup 43 Cooler Temploseesure Antrix Imatrix Sup 43 Cooler Temploseensure Antrix Imatrix Su		ζ.		_	-010			L44	2	1:11
2 L44 -010 6 L41 -010 1 L91 -011 Delinfiched hr	Sail Sw47 Ap. -001 Sw23 - -003 Sw23 - -003 Sw48 - -003 Sw43 - -004 Sw43 - -004 Sw43 - -004 Sw43 - - Sw23 - - In. Journ - - In. Journ - - I.So - - I.So - - I.So - - I.Su - - I.So - - I.Su - - I.Su </td <td>Time Matrix Sample Name Cooler Templowers, 2.1 Time Matrix Sample Name Type and # Type and # 7:31 Container Preservative HEAL No. 9:18 Container Preservative HEAL No. 9:17 Cw47 Ant. -001 BTEX./ MT 9:18 Cw43 -001 TPH:80.150 9:17 Cw44 -0004 PPH45 by 83 9:18 Sw43 -0004 PPD45 10:30 8.w2 -0004 PPD6 11:01 111. Jouth -0004 PPD6</td> <td>B # of Coolers: # of Coolers: Amatrix B Matrix B Amatrix Sample Name Top: Sample Name Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Tipe Stup Stup Stup Stup Stup Stup Stup Stup</td> <td>Image: Complete Matrix Container Partice Matrix Imatrix Contrainer Preservative Imatrix Sample Name Type Imatrix Cooler Temple Name Type Imatrix Sample Name Type Imatrix Sample Name Type Imatrix Sample Name Type Imatrix Sample Name Type and # Imatrix Sample Name Type Imatrix Sample Name Type and # Imatrix Sub 44 -0004 Imatrix Sub 43 -0044 Imatrix Sub 43 -0044 Imatrix Sub 43 -0044 Imatrix Sub 43 <td< td=""><td></td><td>X</td><td></td><td></td><td>-</td><td></td><td></td><td>146</td><td>Σ</td><td>1:41</td></td<></td>	Time Matrix Sample Name Cooler Templowers, 2.1 Time Matrix Sample Name Type and # Type and # 7:31 Container Preservative HEAL No. 9:18 Container Preservative HEAL No. 9:17 Cw47 Ant. -001 BTEX./ MT 9:18 Cw43 -001 TPH:80.150 9:17 Cw44 -0004 PPH45 by 83 9:18 Sw43 -0004 PPD45 10:30 8.w2 -0004 PPD6 11:01 111. Jouth -0004 PPD6	B # of Coolers: # of Coolers: Amatrix B Matrix B Amatrix Sample Name Top: Sample Name Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Type and # Tipe Stup Stup Stup Stup Stup Stup Stup Stup	Image: Complete Matrix Container Partice Matrix Imatrix Contrainer Preservative Imatrix Sample Name Type Imatrix Cooler Temple Name Type Imatrix Sample Name Type Imatrix Sample Name Type Imatrix Sample Name Type Imatrix Sample Name Type and # Imatrix Sample Name Type Imatrix Sample Name Type and # Imatrix Sub 44 -0004 Imatrix Sub 43 -0044 Imatrix Sub 43 -0044 Imatrix Sub 43 -0044 Imatrix Sub 43 <td< td=""><td></td><td>X</td><td></td><td></td><td>-</td><td></td><td></td><td>146</td><td>Σ</td><td>1:41</td></td<>		X			-			146	Σ	1:41
1416 1416 144 141 141 141 1010 1011 Paritic Mise March Mar	Seil Sw47 42. Sw23 42. Sw23 -001 Sw45 -003 Sw43 -004 Sw43 -004 Sw23 -004 Sw23 -004 Sw23 -004 Sw23 -004 Sw23 -004 Sw21 -004 In. Jouth -001	Time Matrix Sample Name Cooler Templified of: 2./ Time Matrix Sample Name Type 407. 407. 7:31 5.31 5.023 8081 Pessiti 7:31 5.023 7.70 (Sem 7:32 5.023 7.70 7:31 5.023 7.70 7:32 5.043 7.70 7:31 5.043 7.70 7:32 5.043 7.70 7:22 5.043 7.70 7:21 5.043 7.70 7:22 5.043 7.70 7:21 5.043 7.70 7:22 5.043 7.70 7:20 5.043 7.70 7.70 7.70 7.70	Bell # of Coolers: # of Coolers: matrix # and # Tope # of Coolers: matrix Sample Name Tope # of Coolers: matrix Sample Name Type and # Type Type and # Type # of Coolers: 2.1 Container Preservative HEAL No. Type and # Type and # Type Type and # Type - 001 RCRA B Method 1 Sw 23 2 Sw 43 1 Sw 43 1 <	Introduction Sampler: MC Introduction Introduction Introduction	_	2	_		-005		_		15	9:0
L50 5 10 -08 -08 -08 -08 -08 -08 -08 -08 -08 -0	Seil SW47 42. Sw23 42. Sw23 -001 Sw45 -003 Sw45 -003 Sw43 -004 Sw23 -004 Sw23 -006 Sw2 -006	Time Matrix Cooler Tempinetering or: 2./ Time Matrix Sample Name Freservative HEAL No. Fig 9: b0 Seyi Container Preservative HEAL No. 9:12 0.477 Arg. -001 Freservative 9:21 5.0.477 Arg. -001 Freservative 9:21 0.477 Arg. -001 Freservative 9:21 0.477 Arg. -001 Freservative 9:23 0.202 1 -003 1 1 9:23 0.202 1 -003 1 1 9:12 0.444 -003 1 1 1 9:18 0.453 1 -003 1 1 1:18 0.453 1 -003 1 1 1 1:18 0.453 1 -003 1 1 1 1 1:18 0.453 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Beil # of Coolers: # of Coolers: Atrix Sample Name # of Coolers: Natrix Sample Name TPH: 801 5D(Gi Natrix Sample Name Type and # Type and # Type Att No. Soil Suil Si Suil Suil	Autompliance Dolloc: X Yes No Indication Other Matrix Sampler: MC Indication Matrix Sampler: MC Indication Matrix Sampler: MC Indication Matrix Sampler: MC Indication Matrix Sampler Matrix Indication Matrix Sampler Matrix Indication Type Matrix Sampler Indication Matrix Sampler Matrix Indication Matrix Sampler Matrix Indication Matrix Sampler Matrix Indication Matrix Matrix Sampler Indication Matrix Matrix Matrix Indication Matrix Matrix Matrix Indication Matrix Matrix Matrix Indication Matrix Matrix Matrix Indicatin Matrin		7			100-		_	In. Jouth		1:1
In. Jouth In. Jouth L50 3 -007 L50 3 -008 L44 -010 L41 -011 L41 -012 L41 -012 L41 -012 L41 -012 L41 -012	Seil SW47 44001 -001 -001 -001 -001 -001 -001 -00	Time Matrix Cooler Templicating de:: 2./ Time Matrix Sample Name EDB (Meth Time Matrix Sample Name Freservative HEAL No. Type and # Type 731 Container Preservative HEAL No. 7:31 Sumple Name Type 131/0 EDB (Meth 7:32 7:31 Suv 23 -001 B081 Pessid 7:31 Suv 23 -003 -003 17PH:8015D 7:22 9:12 Suv 23 -003 17PH:8015D 7:23 5:21 Suv 23 -003 17PH:8015D 7:20 Suv 23 -003 17PH:8015D 17PH:8015D 9:12 Suv 23 -003 17PH:8015D 18270 (Sem 9:22 Suv 43 -003 17PH:8015D 18270 (Sem	Bell # of Coolers: 2 / / # of Coolers: </td <td>1. Accomptance 0 matrix Sampler: WC 0 cher 0 cher WC 0 matrix 0 matrix 0 cher # of Coolers: X res No 0 cher # of Coolers: X res No 1 cher # of Coolers: X res No 2 cooler Temple Name Type HEAL No. HEAL No. 2 cooler Temple Name Type No. Kethod 504.1 2 cooler Temple Name Type No. No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type No. No. 2 cooler Temple Name No. No. No. 2 cooler Temple Name</td> <td></td> <td>2</td> <td></td> <td></td> <td>-006</td> <td></td> <td>_</td> <td>822</td> <td>30</td> <td>:0]</td>	1. Accomptance 0 matrix Sampler: WC 0 cher 0 cher WC 0 matrix 0 matrix 0 cher # of Coolers: X res No 0 cher # of Coolers: X res No 1 cher # of Coolers: X res No 2 cooler Temple Name Type HEAL No. HEAL No. 2 cooler Temple Name Type No. Kethod 504.1 2 cooler Temple Name Type No. No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type Cooler Temple Name No. 2 cooler Temple Name Type No. No. 2 cooler Temple Name No. No. No. 2 cooler Temple Name		2			-006		_	822	30	:0]
8w2 1m. Jouth L50 & 1m. Jouth L50 & 1m. Jouth L44 L44 L44 L44 L44 L44 D10 D10 D10 D10 D10 D10 D10 D10	Sail SW47 APL. -001 SW23 -003 -003 SW44 -004 -004 SW43 -004 -004	Time Matrix Cooler Templicating crip 2.1 Time Matrix Sample Name Container Preservative HEAL No. File Matrix Sample Name Type and # Type Type File Matrix Sample Name Type HEAL No. REXV MT File Matrix Sample Name Type and # Type Type File File Aft -001 File File File Sw 43 -003 File File File	Pel # of Coolers: / 1 # of Coolers: / 1 # of Coolers: / 1 # of Coolers: 2. / 1 Cooler Templinations ori: 2. / 1 Container Preservative 1 Fig. 1 1 Container Preservative 1 Mtf. - 1 Couler -	Instruction Container MLX Instruction On loc: X Yes No Instruction # of Coolers: ////////////////////////////////////		7	0		roo-			Sw29	22	9:1
Sw27 8w2 8w2 1n. Jouth L50 & -006 L50 & -007 L46 L46 L46 L44 L41 L41 L41 L44 L41 L41 L41 D11 D11 D11 D11 D11 D11 D11 D11 D11 D	Seil SW47 AP. -001 SW23 -003 -003 SW24 -003 -003	Time Matrix Sample Name Cooler Templineting ce); 2.1 MT Time Matrix Sample Name Freservative HEAL No. EEDB (Meth) 8031 Pessition Silve and # Type Type 1 SLOCZY BTEX No. MT A: 21 Container Preservative HEAL No. EEDB (Meth) 8031 Pessition A: 21 Cuttainer Type Aft D MT A: 31 Cw 2.3 - CO3 - CO3 - CO3 - CO3 A: 12 Cw 4.4 - CO3 - CO3 - CO3 - CO3 - CO3	PB # of Coolers: # # of Coolers: # # # of Coolers: # # of Cooler Templinetating CFI: Z. # Matrix Sample Name Pob B081 Peservative HEAL No. PRHs by 8310 Container Preservative Type and # Type Type and # Type Pob Sample Name Type PAHs by 8310 Pob Pol Pol	2. 2000 Junitice 00 Icc: X Yes 00 Icc: Xes 00 Icc: Xes 00 Icc:		2			700-			SW43	81	:6
Sw 43 -004 -004 Sw 2 -006 -005 Sw 2 -006 -007 In. Jou th -007 -007 In. Jou th -001 -007 In. Jou th -011 -011 Int. -012 -012 Int. -012 -011 Int. -011 -011	Sail SW47 APP. -001 1 , SW23 , -003 1	Time Matrix Cooler Templorenting orbit 2. / MT Time Matrix Sample Name Container Preservative HEAL No. Time Matrix Sample Name Type / SI OCZY BTEX / MT Time Matrix Sample Name / SI OCZY BTEX / MT 7:31 Container Preservative / SI OCZY B2270 (Sem) 7:31 Cw23 / -00/ / SI OCZY B2270 (Sem)	pe) # of Coolers: / e # of Coolers: / e Matrix # of Cooler Templinetating cFI: 2. / container Preservative HEAL No. container Preservative HEAL No. rype and # Type / SI OCZY bo Sample Name / SI OCZY container Preservative HEAL No. container Type and # Type condition / SI OCZY BSE00 (VOA) condition / SUU23 -00/ condition / SUU23 -00/	23 Container ATCompliance 1 Other Container 1 Other B081 1 Other Matrix 1 Other Matrix 1 Other Matrix 1 Other B081 1 Pesticides/800 1 PhHs by 8310 or 82 1 Cooler Templinatoria or 1 1 Cooler Templinatoria or 1 2 Container 1 Preservative 1 Type 1 Cooler Templinatoria or 1 2 Container 1 Preservative 1 Type 1 Cooler Templinatoria or 1 1 Cooler Templinatoria or 1 1 Cooler Templinatoria 1 Cooler Templinatoria <t< td=""><td></td><td>></td><td></td><td></td><td>- 003</td><td></td><td></td><td>Sw 44</td><td>2 </td><td>9:1</td></t<>		>			- 003			Sw 44	2	9:1
Cw44 $-C03$ $Sw43$ -004 $Sw43$ -004 $Sw23$ -004 $Sw23$ -004 $Sw23$ -004 $Sw23$ -006 $Na2$ -006 $Valanta -006 Valanta -006 Valanta -006 Valanta -006 Valanta -010 Valanta -016 Valanta -016 Valanta -016$	Beil SW47 47. 41001 11	Time Matrix Sample Name Cooler Temploreding cerit 2./ MT 5D MT 7D	pe) # of Coolers: / e Matrix Barrix Cooler Tempinuturing cent: Z. / MTPH: 801 5D (Gillegen) e Matrix Sample Name Type and # Type / Section (Gillegen) oo Seril Cw47 Arg. Arg. Arg. Arg.	Delta Delta Delta Image: Marking Complexing Marking Delta Image: Marking Complexing Marking Delta Image: Marking Delta Marking Image: Marking Delta Delta Image: Marking <		7			000-		L	· 1	31 r	5
1 Sw23 -003 0w44 03 03 0w43 03 03 0w43 03 03 0w43 03 03 0w43 004 04 0w43 004 04 0w43 004 004 0w43 004 004 1m.Jouth 011 011 1m.Jouth 013 010		Time Cooler Temp(notating ce); 2./ MT Cooler Temp(notating ce); 2./ MT Preservative HEAL No; REX./ MT Preservative HEAL No; Preservative No; Type and # Type / 5./ No;	matrix # of Coolers: / # of Coolers: / # of Coolers: / Cooler Templinetation # 0/ BS81 Pesticide BS81 Pesticide PPH's by 8310 PPH's by 9310 PPH'	matrix Container Matrix Container Matrix Matrix Sampter: Matrix No Container # of Coolers: Yes No PBB Metals Cooler Tempinutusing crist No PRHs Preservative HEAL No. No Patrix Sampter: Xo PDB Metals No PDB Cooler Tempinutusing crist No PDB Preservative HEAL No. Type and # Type S10 CCV		2			100-		盘.	Sw47	_	5 18 9.
Az Compliance Sampler: UC Az Compliance Sampler: U Other Bandrix Sampler: Antrix Sample Matrix Contact Matrix Sample Antrix Sample Matrix Contact Matrix Sample Antrix Sample Matrix Contact Matrix Sample Antrix Sample No Contact Antrix Sample Antrix Sample Antrix Contact Contact Contact Contact Contact Antrix Contact Contact Contact <t< td=""><td>Image: Sampler: WLS Image: MLS Image: Sampler: MLS Image: MLS Image: Sampler: MLS Image: MLS Image: Sampler: MLS Image: Sampler: MLS Image: Sampler: MLS <</td><td>11: □ Az Compliance Sampler: WLS Sampler: WLS Sampler: WLS Sampler: NLS Sampler: N</td><td>□ Az Compliance Sampler: UP<</td><td></td><td>əsdAyr</td><td>PO₄, S</td><td>SMISO</td><td>ЯМ / O</td><td></td><td>stin Wer</td><td>H.</td><td>Level 4 (Full Validation)</td><td>:eɓe</td><td>2C Packs tandard</td></t<>	Image: Sampler: WLS Image: MLS Image: Sampler: MLS Image: MLS Image: Sampler: MLS Image: MLS Image: Sampler: MLS Image: Sampler: MLS Image: Sampler: MLS <	11: □ Az Compliance Sampler: WLS Sampler: WLS Sampler: WLS Sampler: NLS Sampler: N	□ Az Compliance Sampler: UP<		əsdAyr	PO₄, S	SMISO	ЯМ / O		stin Wer	H.	Level 4 (Full Validation)	:eɓe	2C Packs tandard
Bige: Image: Image: <td>age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age:</td> <td>age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age:</td> <td>Devel 4 (Full Validation) Ar Compliance Sampler Wrs.</td> <td>Austin Wenant (8021 (8021</td> <td>()</td> <td>₽0</td> <td></td> <td></td> <td></td> <td>ader.</td> <td>Project Man:</td> <td></td> <td>ŧ</td> <td>il or Fax</td>	age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age:	age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age: age:	Devel 4 (Full Validation) Ar Compliance Sampler Wrs.	Austin Wenant (8021 (8021	()	₽0				ader.	Project Man:		ŧ	il or Fax
Reserved of Full Validation Project Manager: n: Az Compliance Project Manager: n: Az Compliance Project Manager: n: Az Compliance Sampler: WES n: Arth Container Project femine Container Proservative Matrix Sampler: WES NDS N: Gail Gw41 Arth - - N: Sw23 Sw23 Sw23 Sw23 Sw23 - N: Sw23 Sw23 - N: Sw23 Sw23 - N: Sw23 Sw23 - <td< td=""><td></td><td></td><td>Project Manager: Project Manager: Image: I</td><td>Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: (8021) Project Manager: (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021)</td><td>505-345-41 Request</td><td>Anal</td><td>05-345-397</td><td>Tel. 50</td><td></td><td></td><td>Project #:</td><td></td><td></td><td>he #:</td></td<>			Project Manager: Project Manager: Image: I	Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: (8021) Project Manager: (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021) (8021)	505-345-41 Request	Anal	05-345-397	Tel. 50			Project #:			he #:
Reviect #: Project #: age:	#: Project #: #: Project #: age: Project Manager: age: Publichthhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhh	age: □ □ Δz Compliance Control Cont	Project #: Project Manager: Level 4 (Full Validation) Ar Compliance Sampler: Wr C	Project #: Project Manager: Au S Hin W Eurant	mental.com erque, NM 5	hallenviron	www.h	4901 H)	<	Project Nam		ress:	ing Addr
Project Name: Project	Project Name: Project Name: Ress: ZaCh McCormict (Roz1) Ach McCormict (Roz1) Ress: Project #: Project #: Project #: Project #: Project Manager: Project #: Project #: Be: Ach McCormict (Roz1) In: Date: Mr Project #: Project #: Project #:	Project Name: Project Name: ress: ZaCh Mc Cormic (minuld) Action Project #: Project #: Project Manager: Project #: Project Manager: Bage: Project Manager: I Level 4 (Full Validation) I: Az Compliance I: Date: Other On loc:	Project Name: Zach Mc Cormick (Minuks) Project #: Project #: Dat Commick (8021) Ar Commission Dat Commission Dat Commission Project Nanager: Project Wanager: Dat Committee Project Wanager: Dat Committee Project Wanager: Dat Committee Project Wanager: Dat Committee Project Wanager: Dat Committee Project Wanager: Dat Committee Project Wanager: Project Wanager: Projec	Project Name: Zach Mc Cormick (Muluk) Project #: Project Manager: Austin Weudut	S LABO	LYSIS	ANA		Dalau		Standard	X15 000	VIH LA	
		_				A Coliform (Present/Absent) A Coliform (Present/Absent) A Coliform (Present/Absent)	LYSIS LABC allenvironmental.com allenvironmental.com allenvironmental.com allenvironmental.com Analysis Reques. NM BS270 (Semi-VOA) Analysis Reques. NM Analysis Reques. NM Total Coliform (Present)	ANALYSIS LABORATORY www.hallenvironmental.com awkins NE - Abuquerque, NM 87109 6-345-3975 Fax 505-345 4107 6-345-345 4107 Analysis Request PAHs by 8310 or 82705/IMS 6-345-306 6-345-4107 Analysis Request Analysis Reques	2 2 2 U 10 600 00 00 00 00 00 00 00 00 00 00 00 0	All All 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ei: Aush John A. McCornick Anuch John A. McCornick Anuch John A. McCornick Anuch John Bger: Bger: Bger: Breservative HEAL No Breservative Type Bger: Arian Bobs Arian Bobs Instrume Bernarks: Instrume Bernarks:	Marinager: Zach McCormiCL (21ML) Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinager: Marinag	Image: Contract of the standard of the standa	Lavel Lavel Full Lavel <

Pro	Project Name:		BORATORY
	Project #:	4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	NM 87109 5-4107
Phone #: email or Fax#:	iont Managar	Analysis Requ	st
e:	Austin Weyard	bO⁴' 20 SIW2 bCB, ² 0 \ WKO	
Az Compliance Other	Sampler: NULS J On Ice: NVes D	A) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (102) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022) (1022)	
	L	AOV 10 ^{3°} 1912 10 CE 192 10 CE 192 10 10 10 10 10 10 10 10 10 10 10 10 10	
Matrix Sample Name	Cooler Templinauding CFI: 2 / Container Preservative HEAL No. Type and # Type 1 810 67 4	BTEX / MTI BTEX / MTI B081 Pestici PAHs by 83 RCRA 8 Me CIJF, Br, N 8270 (Semi- 8270 (Semi	
10/25/18/12: 32 Emil LS),	
12:21 " [[6	1-014		
	5		
Time: Relinquished by: Receiv	NON DATE DATE THAT	Remarks:	

Released to Imaging: 3/20/2023 8:01:10 AM

Itted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report

Aro

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	175562
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	3/20/2023

Page 161 of 161 CONDITIONS

Action 175562