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

January 22, 2018

#5E25774- BG28

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

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE TIGER RECYCLING FACILITY RELEASE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher,

On behalf of Matador Resources, Souder, Miller & Associates (SMA) has prepared this WORK PLAN that describes the assessment, initial delineation and proposed remediation for a release associated with the Tiger Recycling Facility. The site is in UNIT P, SECTION 14, TOWNSHIP 24S, RANGE 28E, NMPM, Eddy County, New Mexico, on Private land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

Table 1: Release information and Site Ranking	
Name	Tiger Recycling Facility
Company	Matador Resources
RP Number	2RP-4567
API Number	N/A
Location	32.211082° -104.052335°
Estimated Date of Release	12/28/17
Date Reported to NMOCD	12/29/17
Land Owner	Private
Reported To	NM OCD Artesia District Office
Source of Release	Equipment Failure
Released Material	Produced Water and Crude Oil
Released Volume	460 bbls
Recovered Volume	435 bbls
Net Release	25 bbls
Nearest Waterway	1.0 Miles from Pecos River
Depth to Groundwater	59’
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	10
SMA Response Dates	12/29/17

1.0 Background

Release occurred due to equipment failure which caused the recycling tank to overflow. When the tank reached capacity, there was a release of crude oil and produced water on the lined pad which continued north to impact 400 square yards of unlined surface area. The release is illustrated on Figure 2. Upon release, a vacuum truck was dispatched to remove all standing fluid on site.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 1.0 miles west of the Pecos River, with an elevation of approximately 2,978 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. 4 wells are located within a one-mile radius of the site. C02057 was used in ground water level determination. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 59 feet below ground surface (bgs).

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

Table 2.

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM

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

3.0 Release Characterization

On December 29, 2017, a SMA representative was on site for an initial site evaluation the extent of the release. A soil sample (L1) from the unlined, impacted area was field-screened using an EC meter and processed according to NMOCD soil sampling procedures. The sample was sent under chain-of-

custody protocols to Hall Environmental Analysis Laboratory for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015D. The sample location is depicted on Figure 2. Field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

4.0 Soil Remediation Workplan

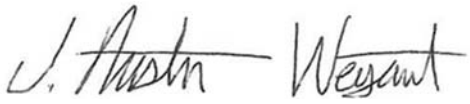
SMA will continuously guide the excavation and delineation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500). The unlined release area will be excavated 0.5 feet bgs and all affected materials will be excavated to NMOCD Standards. Confirmation samples will be collected from within the excavation. Approximately 75 cubic yards of contaminated soil is projected to be removed and replaced with clean backfill material in order to return the surface to previous contours. The contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

5.0 Scope and Limitations

The scope of our services consisted of the 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 505-325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Reviewed by:

Shawna Chubbuck
Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Site and Sample Location Map

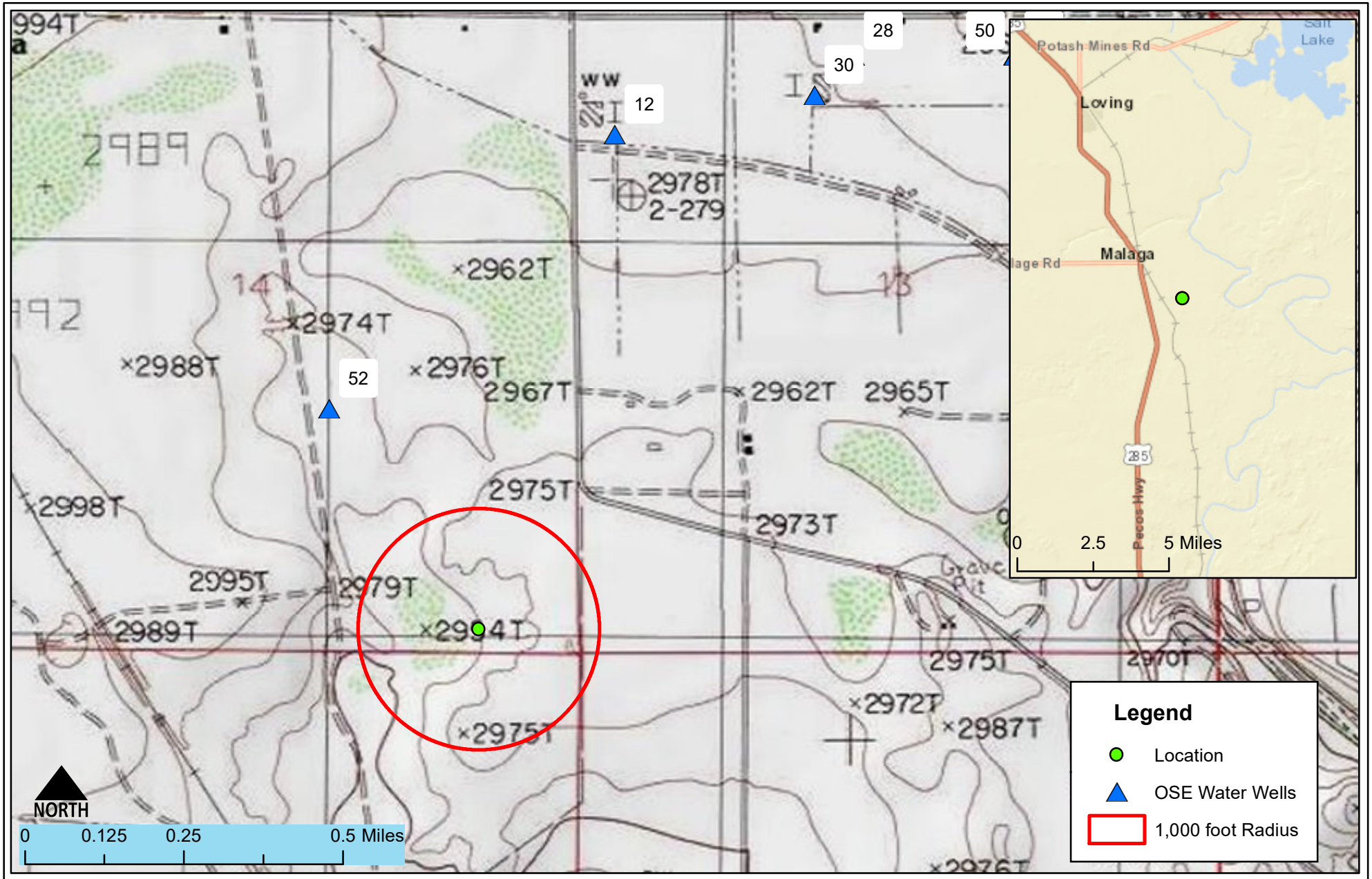
Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Initial
Appendix B: NMOSE Wells Report
Appendix C: Laboratory Analytical Reports

FIGURE 1
VICINITY AND NMOSE DATA MAP



VICINITY AND NMOSE DATA MAP
Tiger Recycling Facility - Matador Resources
S: 14 T24S R28E, Eddy County New Mexico

Figure 1

Revisions
By: Date: Descr:
By: Date: Descr:

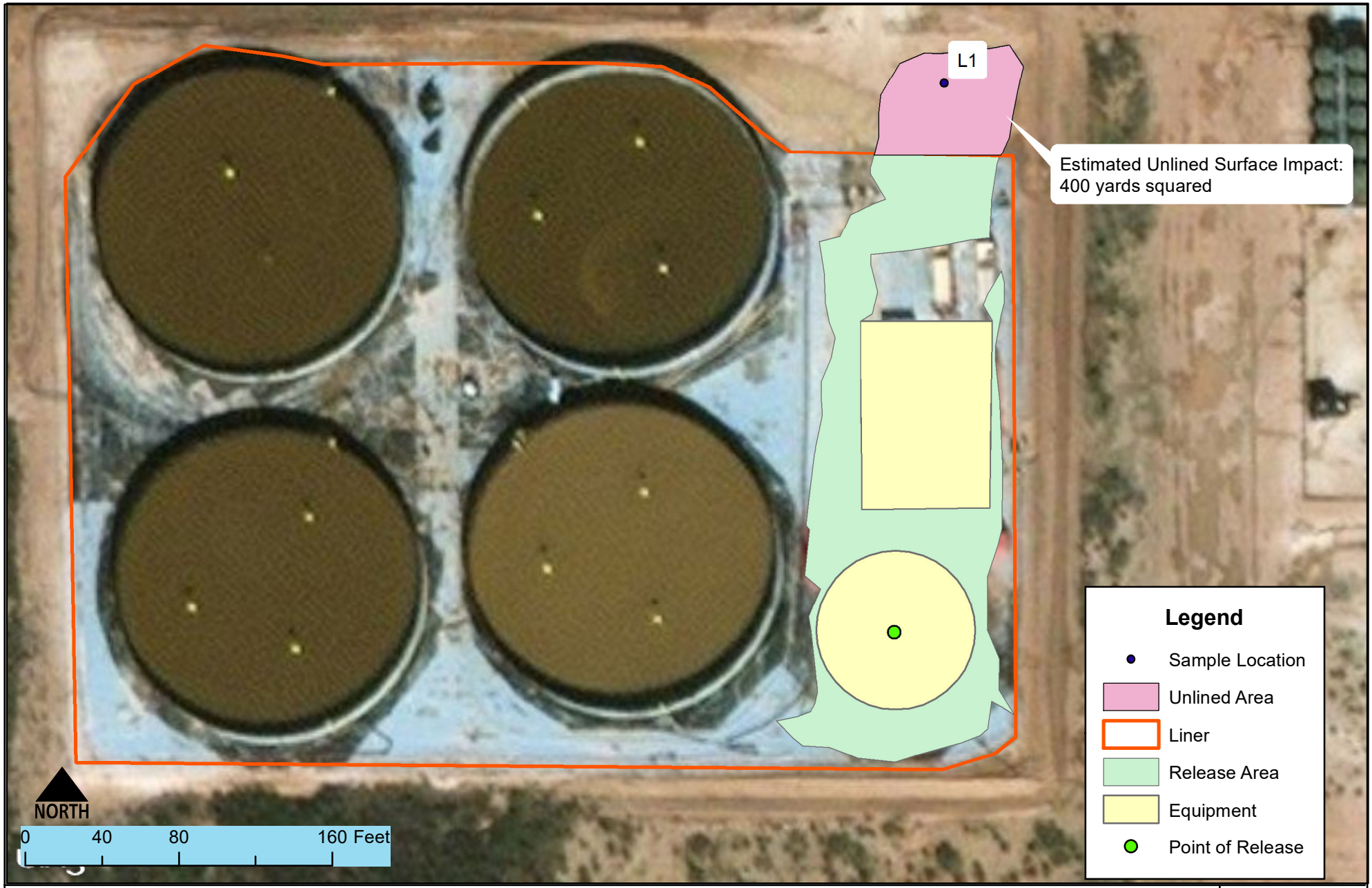
Drawn Lucas Middleton
Checked
Approved

201 South Halagueña Street
Carlsbad, New Mexico 88221
(575) 689-7040
www.soudermiller.com
Serving the Southwest & Rocky Mountains

Date Saved: 1/19/2018

Document: C:\Users\lcm.CBO\Documents\GIS DATA\MAPS\tiger recycle figure 1.mxd

FIGURE 2
SITE AND SAMPLE LOCATION MAP



Site and Sample Location Map
Tiger Recycling Facility- Matador Resources
S: 14 T24S R28E, Eddy County New Mexico

Figure 2

Document: C:\Users\lcm.CBO\Documents\GIS DATA\MAPS\tiger water fac figure 2.mxd

Date Saved: 1/22/2018

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Lucas Middleton
Checked
Approved

SMA
201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689.7040
www.soudermiller.com
Serving the Southwest & Rocky Mountains

TABLE 3
SUMMARY SAMPLE RESULTS

Tiger Recycling Facility

Table 3

Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	**Total TPH** mg/Kg	Cl- Field Screens (ppm)	Cl- Laboratory mg/Kg
NMOCD RRAL's for Site Ranking 10				50 mg/Kg	10 mg/Kg				1000 mg/Kg		
L1	12/29/2017	0.5'	Excavate	<0.047	<0.024	<4.7	80	<47	80	560	500

N/A = Not Analyzed

APPENDIX A
FORM C141 INITIAL

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Matador Resources	Contact Casey Snow
Address 500 N Main St Suite 1Roswell NM 88201	Telephone No. (972) 371-5439
Facility Name Tiger Recycling Facility	Facility Type Produced Water Recycle Facility

Surface Owner Private	Mineral Owner Private	API No. n/a

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	14	24S	28E	215	South	915	EAST	EDDY

Latitude 32.211011° **Longitude** -104.052031°

NATURE OF RELEASE

Type of Release Produced Water and Crude Oil	Volume of Release 460bbls	Volume Recovered 435 bbls
Source of Release Equipment Failure on Recycle Tank	Date and Hour of Occurrence 12/28/17 8:20 pm	Date and Hour of Discovery 12/29/17 12 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NM OCD Artesia District Office	
By Whom? Lucas Middleton (SMA)	Date and Hour 12/29/17 3:19pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Cause: Equipment Failed and allow the Recycle tank to over flow on to secondary containment and pad
Remedial Action: Stopped over flow of tank and began to vac all standing liquids.

Describe Area Affected and Cleanup Action Taken.*
The Affected area was predominately within secondary containment and approximately a 60' x 40' area affecting the production pad. At the time of spill the ground was frozen due to low temperature and initial inspection showed the release to remain surficial. The initial response was to vac all stand liquid on secondary containment and on production pad.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Casey Snow	Approved by Environmental Specialist:	
Title: Manager Regulatory, Environmental, & Safety	Approval Date:	Expiration Date:
E-mail Address: csnow@matadorresources.com	Conditions of Approval:	Attached ☐
Date: 1/17/18 Phone: (972) 371-5439		

* Attach Additional Sheets If Necessary

APPENDIX B
NMOSE WELLS REPORT

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02057		C	ED		1	4	14	24S	28E	588956	3564774*	673	126	52	74
C 00353	C	C	ED		3	4	13	24S	28E	590603	3564367*	1274	2726		
C 00738			ED	3	1	1	13	24S	28E	589673	3565472*	1297	125	12	113
C 00903		C	ED		2	1	13	24S	28E	590178	3565575*	1595	57	30	27

Average Depth to Water: **31 feet**

Minimum Depth: **12 feet**

Maximum Depth: **52 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 589336.84 **Northing (Y):** 3564219 **Radius:** 1600

***UTM location was derived from PLSS - see Help**

APPENDIX C

LABORATORY ANALYTICAL REPORTS

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

January 11, 2018

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

RE: Tiger OrderNo.: 1801064

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/3/2018 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 www.hallenvironmental.com 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: L1-4'
Project: Tiger
Collection Date: 12/29/2017 12:00:00 PM
Lab ID: 1801064-001 **Matrix:** SOIL **Received Date:** 1/3/2018 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	500	30		mg/Kg	20	1/9/2018 11:57:23 AM	35930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	80	9.5		mg/Kg	1	1/4/2018 5:48:09 PM	35811
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/4/2018 5:48:09 PM	35811
Surr: DNOP	95.9	70-130		%Rec	1	1/4/2018 5:48:09 PM	35811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/4/2018 11:39:44 AM	35820
Surr: BFB	82.3	15-316		%Rec	1	1/4/2018 11:39:44 AM	35820
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	1/4/2018 11:39:44 AM	35820
Benzene	ND	0.024		mg/Kg	1	1/4/2018 11:39:44 AM	35820
Toluene	ND	0.047		mg/Kg	1	1/4/2018 11:39:44 AM	35820
Ethylbenzene	ND	0.047		mg/Kg	1	1/4/2018 11:39:44 AM	35820
Xylenes, Total	ND	0.094		mg/Kg	1	1/4/2018 11:39:44 AM	35820
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	1/4/2018 11:39:44 AM	35820

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1801064**

11-Jan-18

Client: Souder, Miller & Associates

Project: Tiger

Sample ID	**MB-35930**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**35930**	RunNo:	**48302**					
Prep Date:	**1/9/2018**	Analysis Date:	**1/9/2018**	SeqNo:	**1552307**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-35930**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**35930**	RunNo:	**48302**					
Prep Date:	**1/9/2018**	Analysis Date:	**1/9/2018**	SeqNo:	**1552308**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1801064**

11-Jan-18

Client: Souder, Miller & Associates

Project: Tiger

Sample ID	**LCS-35811**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**35811**		RunNo:	**48177**				
Prep Date:	**1/3/2018**	Analysis Date:	**1/4/2018**		SeqNo:	**1546989**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.3	73.2	114			
Surr: DNOP	4.4		5.000		87.6	70	130			

Sample ID	**MB-35811**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**35811**		RunNo:	**48177**				
Prep Date:	**1/3/2018**	Analysis Date:	**1/4/2018**		SeqNo:	**1546990**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1801064**

11-Jan-18

Client: Souder, Miller & Associates

Project: Tiger

Sample ID	**MB-35820**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**PBS**	Batch ID:	**35820**	RunNo:	**48202**
Prep Date:	**1/3/2018**	Analysis Date:	**1/4/2018**	SeqNo:	**1547243** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		82.5	15	316			

Sample ID	**LCS-35820**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**LCSS**	Batch ID:	**35820**	RunNo:	**48202**
Prep Date:	**1/3/2018**	Analysis Date:	**1/4/2018**	SeqNo:	**1547244** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	75.9	131			
Surr: BFB	890		1000		89.3	15	316			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1801064**

11-Jan-18

Client: Souder, Miller & Associates

Project: Tiger

Sample ID	**MB-35820**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**
Client ID:	**PBS**	Batch ID:	**35820**	RunNo:	**48202**
Prep Date:	**1/3/2018**	Analysis Date:	**1/4/2018**	SeqNo:	**1547253** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	80	120			

Sample ID	**LCS-35820**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**
Client ID:	**LCSS**	Batch ID:	**35820**	RunNo:	**48202**
Prep Date:	**1/3/2018**	Analysis Date:	**1/4/2018**	SeqNo:	**1547254** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.84	0.10	1.000	0	83.8	70.1	121			
Benzene	0.91	0.025	1.000	0	91.2	77.3	128			
Toluene	0.92	0.050	1.000	0	92.0	79.2	125			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	93.4	81.6	129			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1801064 RcptNo: 1

Received By: Isaiah Ortiz 1/3/2018 9:50:00 AM

Completed By: Sophia Campuzano 1/3/2018 10:44:09 AM

Reviewed By: 01/03/18

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Yes			

Chain-of-Custody Record

Client: SMA - Carlsbad

Mailing Address: 201 Halagueno

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush 5day

Project Name: Tiger

Project #:

Project Manager: Austin Weyant

Sampler: Leng

On Ice: ☐ Yes ☐ No

Sample Temperature: 0.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1801064	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
12/29/17	12	soil	C1-4'	402		-001	X		X					X								

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/02/17	3:00			1/2/17	1500
Date:	Time:	Relinquished by:	Received by:	Date	Time
2/17	1700			1/3/18	950

Remarks: Matador

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