

July 30, 2020

NMOCD Environmental Bureau I/O Brad Billings 1220 South St. Francis Dr. Santa Fe, NM 87505

RE: Ford State #2 Incident No. NMR1935739461 Section 2, T-22-S, R-28-E, Eddy County NM

Good morning Mr. Billings,

I have attached our work plan to remediate a spill caused by a poly line rupture on 10/01/2019. The purpose of this letter is to highlight a few points that I am hoping you will consider in your decision in setting guidelines to continue forward with final closure of this incident.

When this incident was first discovered by my pumper, I had him take pictures, call a vacuum truck to pick up what standing fluid he could, and go pick up our backhoe to scrape up all he could into a pile so it could be immediately removed the next day. There is a very hard pan of cliché around 6" deep which would not allow him to scrape any deeper. I had MMX load up all the contaminated soil they could scrape up which was 87 yards and hauled to Lea Land Solid Waste Station located on State HYW 62/180 in Lea County (Copy of Lea Land invoice attached). We estimated a total of 56 bbls of fluid was released with 9 bbls recovered.

I requested MMX to take care of the environmental assessments and prepare the paperwork to be submitted. The guy working for MMX took another job and the paperwork wasn't completed. I then asked SMA to finish this project and to make recommendations and prepare the documents to submit to the NMOCD Environmental department.

MMX originally took samples which are enclosed in the report found on the page labeled "Table 3, Sample Results". Later SMA took additional samples with a coring machine due to the extremely hard cliché pan along with a background sample to the NW of the spill area. The BGS showed a reading of 1940 Cl. (Table 3 of Sample results). As you will note on the Sample page, as you broke through the pan on S1, the chloride reading showed much higher than the samples above the pan.

In conclusion, I would like you to take into consideration that most of the contamination was immediately removed, there is an extremely hard pan at 6" which serves as a barrier, and the high chloride BGS, would help to make the case that the high chloride sample of S1 4-10' is a naturally present chloride, and not caused by the pipeline rupture. The presence of chlorides are higher on the north and falls off as you go south Example: S1 8'-3640 ppm, S2 8'-1200 ppm, and S3 8' is 960 ppm. The only area showing contamination is S2 with an area of 25' X 15' X 4' due to high Total TPh, this is not present in S1 nor S3.

I am requesting that you allow us to reclaim S2 as we have proposed and place topsoil over the entire disturbed area and reseed.

Thank you for your consideration,

James B Campanella Member/Manager Souder, Miller & Associates • 201 S. Halagueno St. • Carlsbad, NM 88220



July 6, 2020

5E28448-BG5

NMOCD District 2 Ms. Victoria Venegas 811 S. First Street Artesia, New Mexico 88210

SUBJECT: Remediation Plan for the Ford State #002 Release, Carlsbad, New Mexico

Dear Ms. Venegas:

On behalf of Judah Oil, Souder, Miller & Associates (SMA) has prepared this Remediation Plan that describes the delineation and proposed remediation of a release of liquids related to oil and gas production activities at the Ford State #2 site. The site is in Unit F3, Section 02, Township 22S, Range 28E, Eddy County, New Mexico, on State land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

	Table 1: Release Information	on and Closure	Criteria			
Name	Ford State #002	Company	Judah Oil			
API Number	30-015-22714	Location	32.4280109, -104.0593843			
Incident Number	NRM1935739461					
Estimated Date of Release	10/01/2019	Date Reported to NMOCD	10/01/2019			
Land Owner	State	Reported To	District 2 NMOCD			
Source of Release	Release was due to a hole in a flow	line.				
Released Volume	8 bbls & 48 bbls,	Released Material	Crude Oil & Produced Water			
Recovered Volume	<1 bbls, 8 bbls	Net Release	48 bbls			
NMOCD Closure Criteria	<50 feet to groundwater					
SMA Response Dates	1/15/2020 (MMX), 4/8/2020, 5/6/20	20				

Page 2 of 5

1.0 Background

On October 1, 2019, a failure of a flowline at the Ford State #002 location resulted in the release of approximately 8 bbls of crude oil and 48 bbls of produced water. Initial response activities were conducted by Judah personnel and included source elimination and site containment. These initial efforts recovered less than 1 bbl of crude oil and 8 bbls of produced water. Figures 1 and 2 illustrate the vicinity and site location. Figure 3 illustrates the release location. The C-141 forms are included in Appendix A.

2.0 Site Information and Closure Criteria

The Ford State #002 is located approximately 9.5 miles east of Carlsbad, New Mexico on State land at an elevation of approximately 3,182 feet above mean sea level (amsl).

Based upon well water data (Appendix B), depth to groundwater in the area is estimated to be 50 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 7/2/2020). The nearest significant watercourse is the Old Indian Draw, located approximately 1,460 feet to the north west. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

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. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

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

3.0 Release Characterization Activities and Findings

On January 15, 2020, MMX personnel arrived on site in response to the release associated with Ford State #002. MMX collected initial soil samples around the release site at three (3) different sample locations (S1-S3) using a truck-mounted auger. At each sample location, six (6) samples were collected from depths of 2, 3, 4, 6, 8 and 10 feet bgs, for a total of eighteen (18) samples. On April 8, and May 6, 2020, SMA returned to the Ford State #002 and collected additional samples at location S2, and four sidewall delineation samples (S2, SW1-SW4) and one (1) background sample (BG1), indicating a baseline of naturally occurring salts in the surrounding soil.

A total of 24 samples were collected for laboratory analysis of a mixture of total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples results as well as identifying any variances from the typical specification of two samples per boring. Locations for all samples are depicted on Figure 3.

Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

As summarized in Table 3, results indicate that the area surrounding sample location S2, measuring approximately 25 feet by 15 feet by 4 feet deep has been impacted.

Page 3 of 5

4.0 Proposed Soil Remediation Work Plan

SMA proposes excavation and removal of contaminated soil in the area of sample S2. The impacted area will be excavated to approximately 4 feet bgs. SMA will guide the excavation by collecting composite soil samples for field screening for chloride using an EC meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID).

The release area will be excavated to the NMOCD Closure Criteria as demonstrated on Figure 3.

Confirmation samples will be comprised of representative wall and base 5-point composite samples, each representing less than 200 ft² of exposed excavation area.

Approximately 55 cubic yards of contaminated soil are 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 disposal at R360 Environmental Solutions near Hobbs, NM, an NMOCD permitted disposal facility. Upon approval by NMOCD, the projected timeline for completion of remediation activities is approximately 90 days.

5.0 Site Geology

The Ford State #002 site area is comprised of mostly Upton gravelly loam (UG), derived from fan/ ridge residuum weathered from limestone. The Upton soils range in salinity levels from 0.0 to 2.0 microSemen/meter (μ S/m) (NRCS, 2019). To the North, soils consist of Tonuco (TC) loamy sand, and Kermit- Berino (KM) fine sands, both derived from alluvium and eolian sand deposits. These soils range in salinity from 0.0 to 1.0 (μ S/m). To the West, soils are comprised of the Reeves-Gypsum (RG) land complex, derived from hill and ridge residuum weathered from gypsum. The Reeves Gypsum range in salinity from 2.0 to 8.0 (μ S/m). Figure 4 illustrates the formation and site location associated with Appendix D.

6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization, regulatory liaison, and preparing this remediation 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 Ashley Maxwell at 505-320-9241 or Shawna Chubbuck at 505-325-7535.

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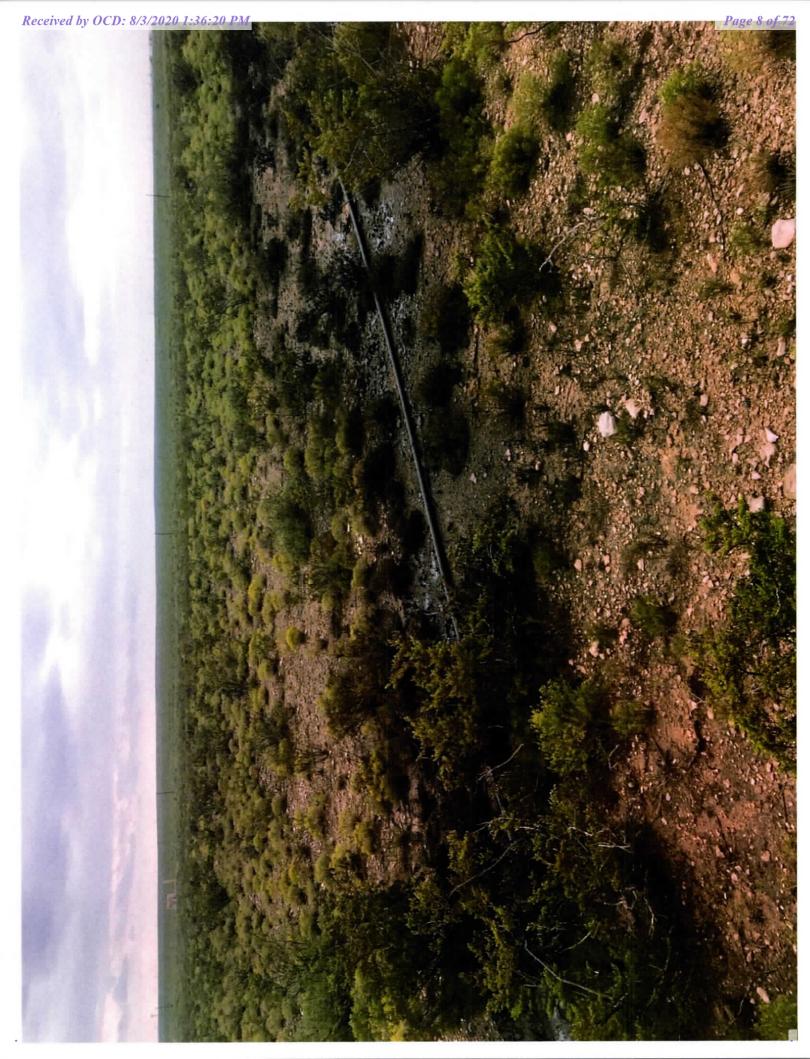
Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Manager Shawna Chubbuck Senior Scientist







LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET OKLAHOMA CITY, OK 73106

PHONE:

405-236-4257

FAX:

405-236-4261

Bill To:

BLAISE CAMPANELLA JUDAH OIL, LLC P. O. BOX 568

ARTESIA, NM 88211

INVOICE # 27524

Date:

10/9/2019

AFE Number:

Charge to:

Ford State #2 330

Date(s) of Service: 10/02/19 - 10/03/19

Manifest #:

132020, 132027

Ship Via:

Judah Oil

Qty	U/M	Description	Unit Price	Total
87.28	Tons	Non-regulated & non-hazardous waste (soil)	\$20.00	\$1,745.60
		RECEIVED OCT	2 2 7013	
		Landfill located at Carlsbad, NM		
			Subtotal	\$1,745.60

TERMS: NET 30

Sales tax rate

5.500%

Sales tax Total

\$96.01 \$1,841.61

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact:

Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

Thank you for your business!

THE DET 1 2 mm

Page 5 of 5

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map Figure 4: Soil Formation Site Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

Appendices:

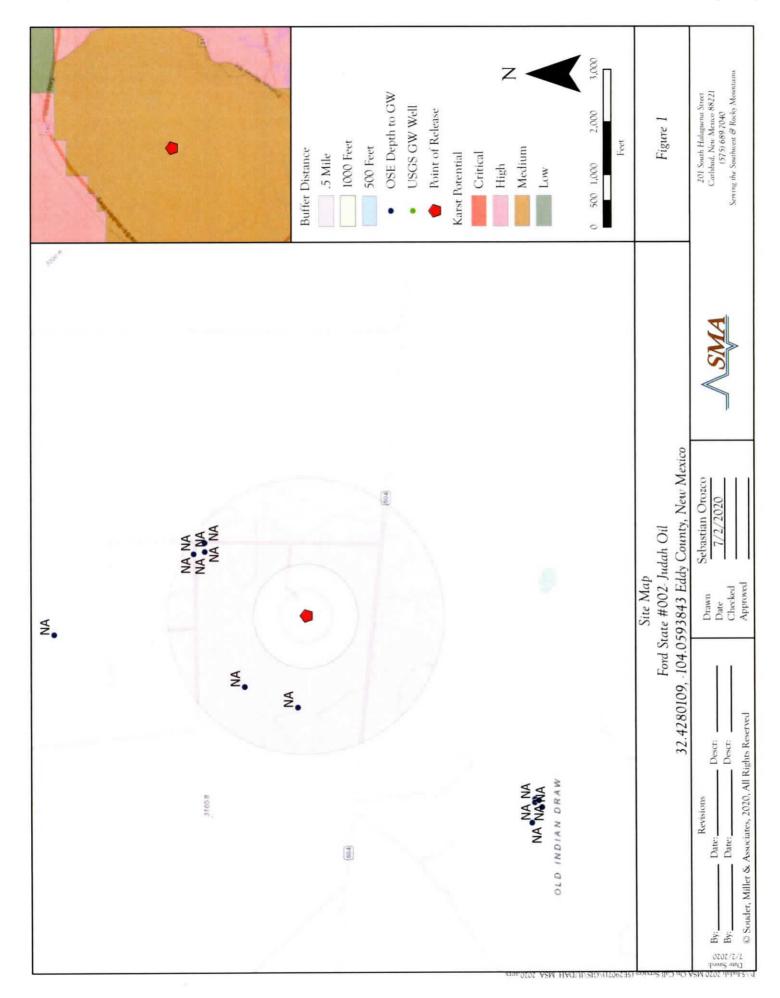
Appendix A: Form C141

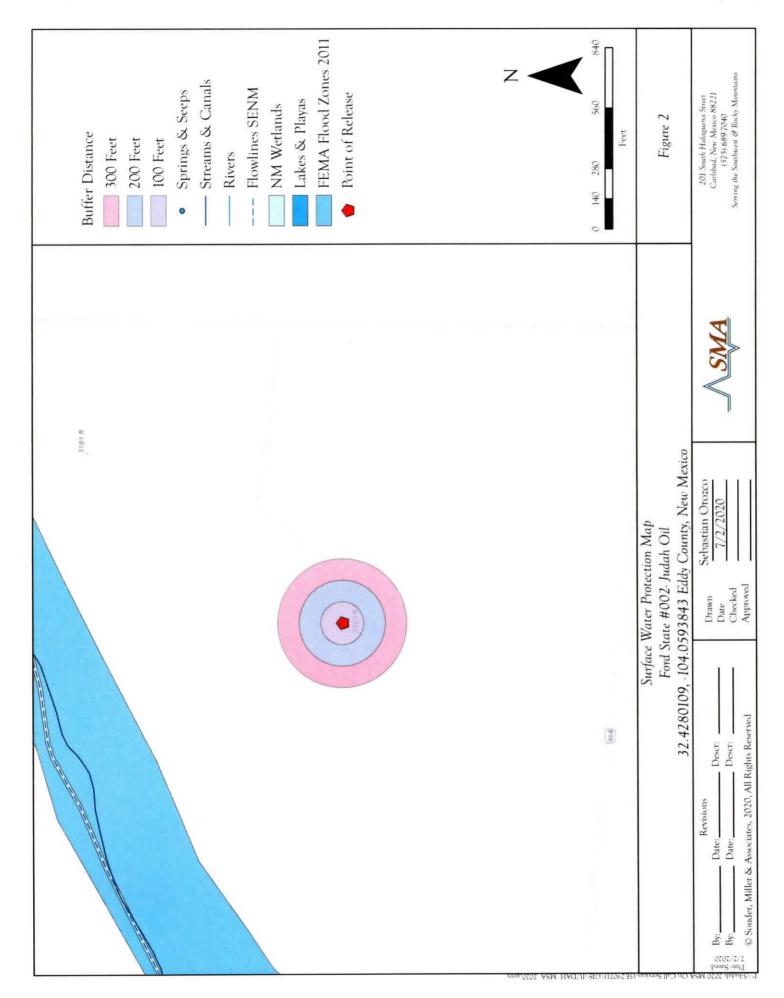
Appendix B: NMOSE Wells Report

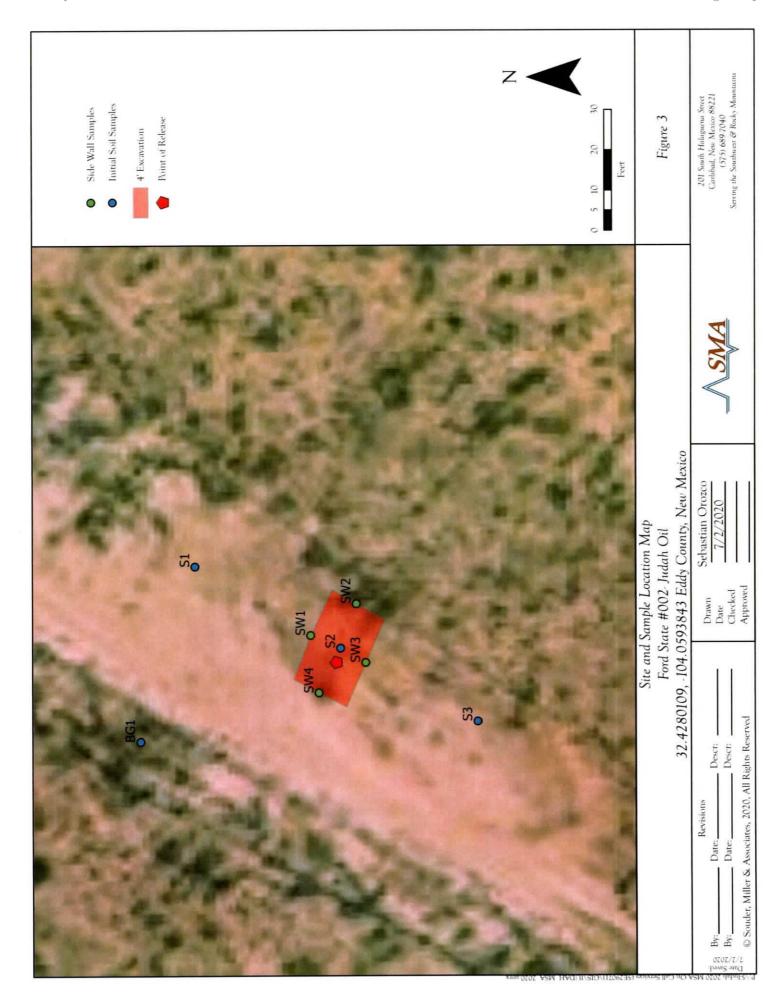
Appendix C: Laboratory Analytical Reports

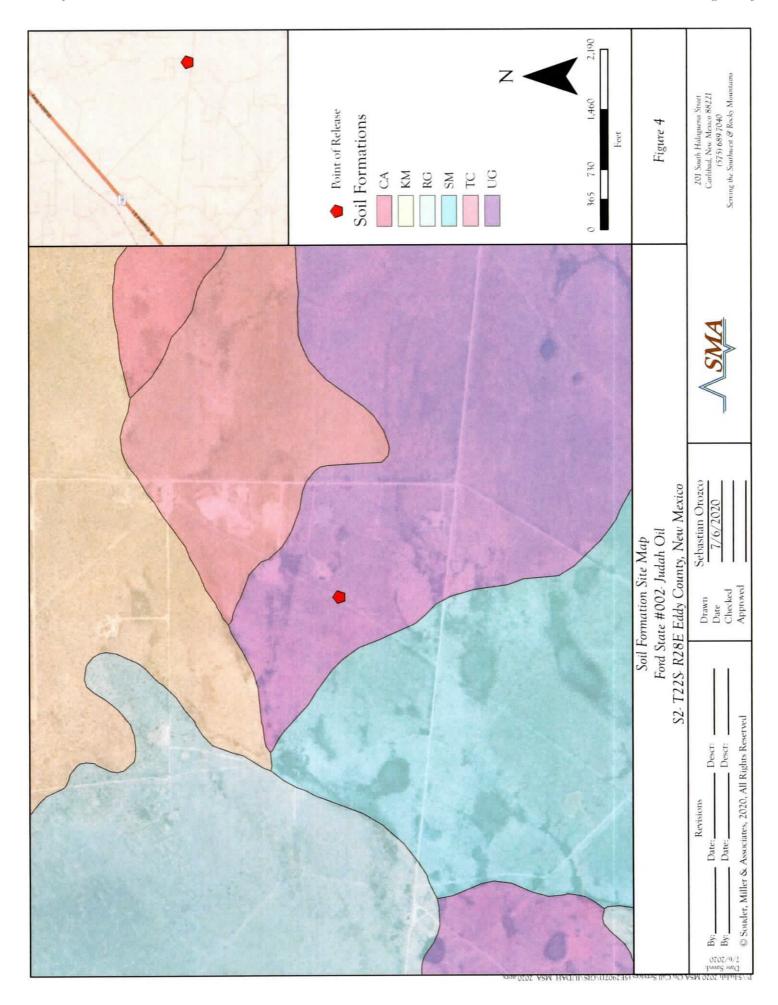
Appendix D: Soil Classification

FIGURES









TABLES

Table 2: NMOCD Closure Criteria

Judah Oil Ford State#002(NRM1935739461)

Site Information (19.15.29.11.A(2, 3, and 4) NMAC		Source/Notes
Depth to Groundwater (feet bgs)	<50	NMOSE & USGS waterwell databases (Appendix B)
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	NA	
Hortizontal Distance to Nearest Significant Watercourse (ft)	1,460	Old Indian Draw to Northwest

Closure Criteria (19.15.2	9.12.B(4) an	nd Table 1 NMAC)		JOHN THE		Hall H
		Closu	re Criteria	(units in n	ng/kg)	STATE
Depth to Groundwater		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	втех	Benzene
< 50' BGS	X	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no		if ye	s, then		
<300' from continuously flowing watercourse or other significant watercourse?	x				,	
<200' from lakebed, sinkhole or playa lake?	X	4			100	
Water Well or Water Source		4				
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	X					
<1000' from fresh water well or spring?	Х					
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	X					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	X					
<100' from wetland?	X					1
within area overlying a subsurface mine	Х					
within an unstable area?	X					
within a 100-year floodplain?	X					

Judah Oil Ford State #2 (NRM1935739461)

Sample Results Table 3:

Sample ID Sample Date NMOCD Closure C SG1 5/6/2020									THE REAL PROPERTY.
ample ID Sam		Donth of Sample	Method 8021B	8021B		Method 8015D	8015D		300.0
NMOCD BG1 5/1	ple Date	(feet bgs)	ВТЕХ	Benzene	GRO	DRO	MRO	Total TPH	ċ
NMOCD 8/1			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
BG1 5/	10	riteria (>4 ft)	50	10			The state of the state of	100	009
	_	4		,	¥			t	1940
		*2	<0.300	<0.050	<10.0	28.1	<10.0	28.1	265
		*3	<0.300	<0.050	<10.0	12.9	<10.0	12.9	912
	0	4	3	ч	î			ı	1,090
S1 1/1	1/15/2020	9	ť.	ı	1		1	1	2,130
		∞	*	,	¥	1.	· ·	·	3,640
		10		818	i	34	ji.	1	2,320
	0	*2	<0.300	<0.050	19.9	301	47.1	368	1,330
1/1	1/15/2020	*3	<0.300	<0.050	10.6	178	24.6	213.2	1,330
]	0000,0	4			<4.9	<9.1	<45	<59	1,360
52 4/8	4/8/5020	5			<4.9	<10	<50	<64.9	
		9*	Æ	1	1		ж	. T	1,360
1/1	1/15/2020	8*		i	ř	ı		1	1,200
		*10	4	ä		ï		ì	1,310
		*2	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	3,160
		*3	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	1,970
	0000/1	*4	818	,	1	Э	78	ğ	2,320
53 1/1	1/15/2020	9*		ř		£		1	864
		8*		i		,		ì	096
		*10		i	1	4	10		624
SW1		Surface	<0.224	<0.025	<5.0	<9.3	<47	<61.3	200
SW2	0000/0	Surface	<0.224	<0.025	<5.0	<10	<50	<65	09>
Г	4/8/2020	Surface	<0.224	<0.025	<5.0	9.6>	<48	<62.6	09>
SW4		Surface	<0.224	<0.025	<5.0	<8.9	<44	<57.9	390

"--" = Not Analyzed BG: Background sample

*: Sample collection per MMX

APPENDIX A FORM C141

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

p 3.1							
Responsible	Party J	udah Oil			OGRID	245872	
Contact Nam	ne I	Blaise Campanella			Contact T	elephone (575) 7	48-5488
Contact emai	il j	judahoil@yahoo.com		Incident #	cident # (assigned by OCD)		
Contact mail	ing address	PO Box 568, Ar	rtesia, NM 8822	1	.!		
			Location	of R	elease S	ource	
Latitude 32.4	24900		(NAD 83 in d	ecimal de	Longitude grees to 5 deci	-104.060900 mal places)	
Site Name	Ford State #2	2			Site Type	Flow Line	
Date Release	Discovered	10/1/2019 8:00) am		API# (if ap	plicable) 30-015	-22714
Unit Letter	Section	Township	Range		Cou	nty	
F	02	22S	28E	Edd	у		
Surface Owne	r: 🖂 State	☐ Federal ☐ Tı				D 1)
	Materia	l(s) Released (Select a	Nature an	d Vo	lume of	c justification for the v	olumes provided below)
Surface Owne	Materia		Nature an	d Vo	lume of	Volume Recov	ered (bbls) < 1
	Materia l	l(s) Released (Select a Volume Release Volume Release	Nature and attacked (bbls) 8 ed (bbls) 48	d Vo	lume of	Volume Recov	ered (bbls) < 1 ered (bbls) 8
⊠ Crude Oi	Materia l	l(s) Released (Select a Volume Release Volume Release	Nature and that apply and attacked (bbls) 8 ed (bbls) 48 tion of dissolved	d Vo	lume of	Volume Recov	ered (bbls) < 1 ered (bbls) 8
⊠ Crude Oi	Materia l Water	Volume Release Volume Release Is the concentration	Nature and attacked (bbls) 8 ed (bbls) 48 tion of dissolved >10,000 mg/l?	d Vo	lume of	Volume Recov Volume Recov Volume Recov Volume Recov Volume Recov	ered (bbls) < 1 ered (bbls) 8 ered (bbls)
⊠ Crude Oi ⊠ Produced	Materia l Water	Volume Release Volume Release Is the concentral produced water	Nature and attacked (bbls) 8 ed (bbls) 48 ed (bbls) 48 ed (bbls) 48 ed (bbls) 46 ed (bbls) 48 ed (bbls) 6 ed (bbls)	d Vo	lume of	Volume Recov Volume Recov Volume Recov	ered (bbls) < 1 ered (bbls) 8 ered (bbls)
☑ Crude Oi☑ Produced☐ Condensa	Materia l Water ate	l(s) Released (Select a Volume Release Volume Release Is the concentral produced water Volume Release Volume Release	Nature and attacked (bbls) 8 ed (bbls) 48 ed (bbls) 48 ed (bbls) 48 ed (bbls) 46 ed (bbls) 48 ed (bbls) 6 ed (bbls)	chloride	lume of	Volume Recov Volume Recov Volume Recov Volume Recov Volume Recov Volume Recov	ered (bbls) < 1 ered (bbls) 8 ered (bbls)
□ Crude Oi □ Produced □ Condensa □ Natural C	Materia I Water ate Gas escribe)	l(s) Released (Select a Volume Release Volume Release Is the concentral produced water Volume Release Volume Release	Nature and attacked (bbls) 8 ed (bbls) 48 et (bbls) 48 et (bbls) 48 ed (bbls) 48 ed (bbls) ed (bbls) ed (Mcf)	chloride	lume of	Volume Recov Volume Recov Volume Recov Volume Recov Volume Recov Volume Recov	ered (bbls) < 1 ered (bbls) 8 ered (bbls) ered (bbls)

□ Laboratory data including chain of custody

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	NRM1935739461
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?	<50 (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 ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
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 well Field data Data table of soil contaminant concentration data 	lls.
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
☐ Boring or excavation logs	#1
 	

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.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	NRM1935739461
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noting public health or the environment. The acceptance of a C-141 report by the Offailed to adequately investigate and remediate contamination that pose a three addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. Printed Name: Sames Banganda. Signature: email: Judahoi Toyakoo Com	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
OCD Only	
Received by: Cristina Eads	Date: 08/03/2020

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	NRM1935739461
District RP	
Facility ID	
Application ID	

Remediation Plan

 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
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: Tames Blandard Title: Member Manager Date: 2-13-2020 Telephone: 575-948-4730
OCD Only Opinting Fords
Received by: Cristina Eads Date: 08/03/2020
Approved
Signature: Date: 10/15/2020

APPENDIX B NMOSE WELLS REPORT

1/30/2020

nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy?queryData=%7B" report"%3A" waterColumn"%2C%0A" BasinDiv"%3A" true"%2C%0A" BasinDiv"%3A" true "%2C%0A" BasinDiv" basinDiv "%3A" true "%2C%0A" BasinDiv "%3A" true "%3A" tru



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											
		Sub-		QQ	Q							V	Vater
POD Number	Code	basin	County	64 16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDepthWater Co	olumn
CP 01171 POD1		CP	ED	1	4	35	218	28E	588814	3588862	705	70	
CP 01171 POD3		CP	ED	1	4	35	218	28E	588814	3588862	705	115	
CP 01171 POD2		CP	ED	1	4	35	21S	28E	588866	3588862	735	110	
CP 01118 POD1		CP	ED	1	4	35	218	28E	588800	3588926	753	25	
CP 01118 POD2		CP	ED	1	4	35	218	28E	588800	3588926	753	56	

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 588433.555

Northing (Y): 3588267.766

Radius: 804.67

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

1/30/20 11:52 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

1/3

9

▼ United States

Groundwater

USGS Groundwater for USA: Water Levels - 1 sites



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- Introducing The Next Generation of USGS Water Data for the Nation
 - Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

. 322547104035001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322547104035001 22S.28E.02.11111

Eddy County, New Mexico

Latitude 32°25'47", Longitude 104°03'50" NAD27 Land-surface elevation 3,162 feet above NAVD88

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Tab-separated data Reselect period Graph of data Table of data

Water- level approval status	
Source of measurement	
? Measuring agency	
? Method of measurement	
? Status	2
? Water- level accuracy	
Referenced vertical datum	
Water level, feet above specific vertical datum	
Water level, feet below land surface	D 133.04
Water- level date- time accuracy	_
Time	.02
Date	1965-12-0

https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=322547104035001&agency_cd=USGS&format=html

		A	A	<	A	A	V	A
	Water- level approval status							
	Source of measurement	ח	ם	ס	ס	Π	D	D
	? Measuring agency	ם	٥	ם	٥	٦	S	S
ils 1 sites	? Method of measurement							
JSA: Water Leve	? Status	~					۵	
USGS Groundwater for USA: Water Levels 1 sites	y Water- level accuracy	2	2	2	2	2	2	2
nses	Referenced vertical datum							
	Water level, feet above specific vertical datum							
	Water level, feet below land surface	143.43	132,78	130.67	129.42	128.73	129.09	128.52
	y Water- level date- time accuracy	Д	Q	D		Q	D	Q
	Time							
1/30/2020	Date	1968-06-27	1970-12-04	1976-12-16	1983-01-18	1987-10-30	1992-12-10	1998-01-27

Section	Code	Description
Water-level date-time accuracy	Q	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	d.	Site was being pumped.
Status	~	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	ם	Unknown method.
Measuring agency		Not determined
Source of measurement	D	Source is unknown.
Water-level approval status	A	Approved for publication Processing and review completed.

Explanation

Questions about sites/data? Feedback on this web site Automated retrievals

Help Data Tips Explanation of terms Subscribe for system changes News

Privacy FOIA Plug-Ins Accessibility

https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=322547104035001&agency_cd=USGS&format=html

APPENDIX C LABORATORY ANALYTICAL REPORTS



January 21, 2020

LUPE CARRASCO

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: FORD STATE #2

Enclosed are the results of analyses for samples received by the laboratory on 01/16/20 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

MMX

LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220

Fax To:

(575) 236-6201

Analyzed By: MS

Received:

BTEX 8021B

01/16/2020

Sampling Date:

01/15/2020 Soil

Reported: Project Name: 01/21/2020 FORD STATE #2 Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: S 1 - 2' (H000157-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/20/2020	ND	1.74	86.9	2.00	13.7	
Toluene*	< 0.050	0.050	01/20/2020	ND	1.69	84.5	2.00	14.7	
Ethylbenzene*	< 0.050	0.050	01/20/2020	ND	1.75	87.6	2.00	13.6	
Total Xylenes*	< 0.150	0.150	01/20/2020	ND	5.02	83.7	6.00	14.8	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/20/2020	ND	432	108	400	3.77	
Chloride TPH 8015M	592 mg/		60 0	ND d By: MS	432	108	400	3.77	
			60 0		432 BS	108 % Recovery	400 True Value QC	3.77 RPD	Qualifier
TPH 8015M	mg/	kg	Analyze	d By: MS		2554363	1997-200		Qualifier
TPH 8015M Analyte	mg/ Result	Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Surrogate: 1-Chlorooctane

91.0%

41-142

Surrogate: 1-Chlorooctadecane

91.1%

37.6-147

Cardinal Laboratories *=Accredited Analyte

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Celeg T. Keine



Analytical Results For:

MMX

LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220

Fax To:

(575) 236-6201

Received:

01/16/2020

Reported:

01/21/2020 FORD STATE #2

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/15/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S 1 - 3' (H000157-02)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.74	86.9	2.00	13.7	
Toluene*	<0.050	0.050	01/20/2020	ND	1.69	84.5	2.00	14.7	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.75	87.6	2.00	13.6	
Total Xylenes*	< 0.150	0.150	01/20/2020	ND	5.02	83.7	6.00	14.8	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	01/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2020	ND	201	101	200	3.88	
DRO >C10-C28*	12.9	10.0	01/20/2020	ND	185	92.5	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/20/2020	ND					
Surrogate: 1-Chlorooctane	88.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Analytical Results For:

MMX

LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220

Fax To: (575) 236-6201

Received: Reported: 01/16/2020

01/21/2020

Project Name: Project Number: FORD STATE #2 NONE GIVEN

Project Location:

NOT GIVEN

1090

Result

2130

Result

Result

2320

Sampling Date:

01/15/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: S 1 - 4' (H000157-03)

Chloride,	SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result

16.0

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Analyzed 01/20/2020 Method Blank ND

ND

Method Blank

ND

BS 432 % Recovery 108

108

% Recovery

True Value QC 400

RPD 3.77 Qualifier

Sample ID: S 1 - 6' (H000157-04)

Chloride, S	M4500CI-B
-------------	-----------

Analyte

mg/kg

Analyzed By: AC

Analyzed

01/20/2020

Analyzed

Analyzed

01/20/2020

Method Blank

BS % Recovery 432

True Value OC

400

RPD

Qualifier 3.77

Sample ID: S 1 - 8' (H000157-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte 3640 Chloride

16.0 01/20/2020

432

108

True Value QC 400

RPD 3.77 Qualifier

Sample ID: S 1 - 10' (H000157-06)

Chloride, SM4500Cl-B

Chloride

Analyte

mg/kg

Analyzed By: AC

Method Blank

ND

BS 432

BS

% Recovery 108

True Value OC 400

RPD 3.77 Qualifier

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Celeg & treene



Analytical Results For:

MMX LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220 Fax To: (575) 236-6201

Received:

01/16/2020

Reported:

01/21/2020

Project Name: Project Number: FORD STATE #2 NONE GIVEN

Project Location:

Sampling Date:

01/15/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

NOT GIVEN

Sample ID: S 2 - 2' (H000157-07)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/20/2020	ND	1.74	86.9	2.00	13.7	
Toluene*	< 0.050	0.050	01/20/2020	ND	1.69	84.5	2.00	14.7	
Ethylbenzene*	0.053	0.050	01/20/2020	ND	1.75	87.6	2.00	13.6	
Total Xylenes*	< 0.150	0.150	01/20/2020	ND	5.02	83.7	6.00	14.8	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	01/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.9	10.0	01/20/2020	ND	201	101	200	3.88	
DRO >C10-C28*	301	10.0	01/20/2020	ND	185	92.5	200	3.94	
EXT DRO >C28-C36	47.1	10.0	01/20/2020	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.7	% 37.6-14	17						

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Celeg & Keine



Analytical Results For:

MMX LUPE CARRASCO 2737 PECOS HWY

CARLSBAD NM, 88220 Fax To: (575) 236-6201

Received: Reported:

RTEY SOOTE

01/16/2020

01/21/2020

Project Name: Project Number: FORD STATE #2 NONE GIVEN

ma/ka

Project Location:

NOT GIVEN

Sampling Date:

01/15/2020

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S 2 - 3' (H000157-08)

BTEX 8021B	mg/	кд	Anaiyze	а ву: мэ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.74	86.9	2.00	13.7	
Toluene*	<0.050	0.050	01/20/2020	ND	1.69	84.5	2.00	14.7	
Ethylbenzene*	0.070	0.050	01/20/2020	ND	1.75	87.6	2.00	13.6	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.02	83.7	6.00	14.8	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	01/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.6	10.0	01/20/2020	ND	201	101	200	3.88	
DRO >C10-C28*	178	10.0	01/20/2020	ND	185	92.5	200	3.94	
EXT DRO >C28-C36	24.6	10.0	01/20/2020	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142							
Surrogate: 1-Chlorooctadecane	97.6	% 37.6-14	7						

Analyzed By: MS

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Celeg Z. trune



Analytical Results For:

MMX

LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220

Fax To: (575) 236-6201

Received:

01/16/2020

Reported: Project Name: 01/21/2020 FORD STATE #2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date: Sampling Type: 01/15/2020

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S 2 - 4' (H000157-09)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed 01/20/2020

Analyzed

01/20/2020

01/20/2020

Method Blank

Method Blank

ND

BS 432 % Recovery

True Value QC 400 RPD

3.77

3.77

Qualifier

Sample ID: S 2 - 6' (H000157-10)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Result

1360

Result

1200

Analyzed By: AC

BS

432

% Recovery

108

108

True Value QC

400

RPD Q

Qualifier

Sample ID: S 2 - 8' (H000157-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyzed

Method Blank

BS

432

% Recovery True Value QC

RPD

Qualifier

Sample ID: S 2 - 10' (H000157-12) Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result

Chloride 1310

Analyzed 01/20/2020

Method Blank ND BS 432 % Recovery 108 True Value QC 400

400

RPD 3.77 Qualifier

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Celeg & Keine



Analytical Results For:

MMX

LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220

(575) 236-6201 Fax To:

Received:

01/16/2020

Reported:

01/21/2020

Project Name: Project Number: FORD STATE #2 NONE GIVEN

Project Location:

Sampling Date:

01/15/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

NOT GIVEN

Sample ID: S 3 - 2' (H000157-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.74	86.9	2.00	13.7	
Toluene*	<0.050	0.050	01/20/2020	ND	1.69	84.5	2.00	14.7	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.75	87.6	2.00	13.6	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.02	83.7	6.00	14.8	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIE	94.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	01/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2020	ND	201	101	200	3.88	
DRO >C10-C28*	<10.0	10.0	01/20/2020	ND	185	92.5	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/20/2020	ND					
Surrogate: 1-Chlorooctane	82.9	% 41-142							
Surrogate: 1-Chlorooctadecane	82.6	% 37.6-14	7						

Cardinal Laboratories

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Celley Theene



01/15/2020

Cool & Intact

Tamara Oldaker

Soil

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Analytical Results For:

MMX LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220 (575) 236-6201 Fax To:

Received:

01/16/2020

Reported:

BTEX 8021B

GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

01/21/2020

Project Name: Project Number: FORD STATE #2 NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sample ID: S 3 - 3' (H000157-14)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.74	86.9	2.00	13.7	
Toluene*	< 0.050	0.050	01/20/2020	ND	1.69	84.5	2.00	14.7	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.75	87.6	2.00	13.6	
Total Xylenes*	< 0.150	0.150	01/20/2020	ND	5.02	83.7	6.00	14.8	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1970	16.0	01/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

01/20/2020

01/20/2020

01/20/2020

ND

ND

ND

201

185

101

92.5

200

200

3.88

3.94

Analyzed By: MS

Surrogate: 1-Chlorooctane 98.8 % 41-142 99.1% 37.6-147 Surrogate: 1-Chlorooctadecane

<10.0

<10.0

<10.0

10.0

10.0

10.0

*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Theine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

MMX

LUPE CARRASCO 2737 PECOS HWY CARLSBAD NM, 88220

Fax To:

(575) 236-6201

Received:

01/16/2020

Reported: Project Name: 01/21/2020 FORD STATE #2 NONE GIVEN

Project Number: Project Location:

Analyte

NOT GIVEN

Sampling Date:

01/15/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S 3 - 4' (H000157-15)

mg/kg Result

2320

Analyzed By: AC

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

01/20/2020

BS 432 % Recovery 108

True Value QC 400

RPD

Qualifier

Sample ID: S 3 - 6' (H000157-16)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

3.77

Analyte

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

Result 864

Result

960

Result

624

Reporting Limit Analyzed 16.0 01/20/2020 Method Blank ND

ND

Method Blank

ND

BS 432 % Recovery 108

True Value QC 400

RPD

Qualifier 3.77

Sample ID: S 3 - 8' (H000157-17)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Analyzed

01/20/2020

Analyzed

01/20/2020

Method Blank BS

% Recovery

108

True Value QC 400

RPD 3.77 Qualifier

Sample ID: S 3 - 10' (H000157-18)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

BS 416

432

% Recovery 104

True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

sed in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and Cardinal's liability and client's exclusive reany other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable sevence. In no event shall Cardinal be liable for incidental or consequential diamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celegy treene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg T. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	XWW		BILL TO	Ar	ANALYSIS REQUEST
Project Manager:			P.O. #:		
Address:			Company: MMX	×	
City:	State:	Zip:	Attn:		
Phone #:	Fax #:		Address:		
Project #:	Project Owner:	er:	City:		
Project Name:	Food State # 2		State: Zip:		
Project Location:			Phone #:		
Sampler Name:	Lipe		Fax #:		
FOR LAB USE ONLY	24	MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chlor, de	
,	51-21		1/15/20	* X X	
ากน	21-8,			* *	
V+1	<1-8, 21-6,			**	
6	11-10		11/5/20	*	
_				by the client for the	

PLEASE NOTE: Libality and Damages. Cardinals liability and dent's accidance remote for any cases writing oversion based in communic or on, some semination for the annual new annual process of the semination of the solicitate annual process and any other cancer shall be deemed supressed in which and not received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions.

				Received By:		Relinquished By:
				eceived By:		linquished By:
				lamara exacted	1030	TOWN INTERNATION
			REMARKS		1	3
Add'I Fax #:	O No	□ Yes	Fax Result:		1-16-20	
Add'I Phone #:	L No	□ Yes	Phone Result:	eceived By:	Date:	linguished By:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

8

CARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	XIMIN	DILL 10	
Project Manager:	1 1	P.O. #:	
Address:		Company: MMX	
City:	State:	Zip: Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	vner: City:	
Project Name:	Ford State #2	State: Zip:	
Project Location:		Phone #:	
Sampler Name:	Laps	Fax#:	<u></u>
FOR LAB USE ONLY		MATRIX PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TBH Chloria
7 5	2-2'		8 8 8
00:	2-3'		2 22 22 22 22 22 22 22 22 22 22 22 22 2
200	2-4'		e y
11 50	2-8		8,
12 52	- 10'		×

Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Time: Received By: Sample Condition
Cool Intact
Pres Pres
No No CHECKED BY: (Initials) 9 Fax Result: □ Yes □ □ Add'I Phone #: Add'I Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

283



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	MMK		BILL TO	ANALYSIS REQUEST
Project Manager:			P.O. #:	
Address:			Company: MMX	
City:	State:	Zip:	Attn:	
Phone #:	Fax#:		Address:	
Project #:	Project Owner:	mer:	City:	
Project Name:	Ford Stode #2		State: Zip:	
Project Location:			Phone #:	
Sampler Name:	luss		Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	, 5
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH Chlarida
13	53-2	# V s	1/5/10	×
St	20-6			× × ×
ic	200			RK
81,	53 10'			8
		-		

Relinquished By: Time: J-16-20 Received By: Phone Result: Fax Result: REMARKS: ☐ Yes ☐ No

Sample Condition CHECKED BY:
Cool Intact (Initials)
Pres Pres
No No No

R Run mutil (1 - fall before

Add'I Phone #: Add'I Fax #:

S for

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

4.6c

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:



May 08, 2020

ASHLEY MAXWELL SOUDER MILLER AND ASSOCIATES 201 S. HALAGUENO CARLSBAD, NM 88220

RE: FORD STATE

Enclosed are the results of analyses for samples received by the laboratory on 05/06/20 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
ASHLEY MAXWELL
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received:

05/06/2020

Sampling Date:

05/05/2020

Reported: Project Name: 05/08/2020 FORD STATE Sampling Type:

Soil

Project Number:

FORD STATE #2

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

JUDAH OIL

oject Location.

Sample ID: BG (H001255-01)

Chloride, SM4500CI-B	mg,	kg	Analyze	а ву: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1940	16.0	05/08/2020	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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Celley & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit ND RPD Relative Percent Difference **

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

*=Accredited Analyte Cardinal Laboratories

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Celeg T. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

Relinquished By:

Date:

Received By:

-20

Received, By:

Phone Result: Fax Result: REMARKS:

□ Yes

N S

Add'l Phone #: Add'l Fax #:

Time:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Relinquished By



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Z.	DIE 10	
Project Manager: Ashley Waxwell	P.O. #	
Address: 201 S. Halaqueno St.	Company:	
City: Carlsbook State:	State: NIM Zip: 88220 Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	Owner: City:	
Project Name: Food State #2	State: Zip:	
Project Location:	Phone #:	
Sampler Name: Schostian Omico	(SO) Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Sin C)
1 867	1 X X 5/5/20 1	*



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

April 15, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX:

RE: Ford State 002

OrderNo.: 2004512

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/10/2020 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2004512

Date Reported: 4/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Ford State 002

Lab ID: 2004512-001

Client Sample ID: S2-4'

Collection Date: 4/8/2020 10:15:00 AM

Received Date: 4/10/2020 8:25:00 AM

Analyses	Result	RL	Qual Unit	s D	F	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE R.	ANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/l	(g -	I	4/13/2020 6:09:36 PM	51733
Surr: BFB	98.4	70-130	%Re	c ·	1	4/13/2020 6:09:36 PM	51733
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/l	(g -	1	4/12/2020 3:02:25 PM	51739
Motor Oil Range Organics (MRO)	ND	45	mg/l	(g	1	4/12/2020 3:02:25 PM	51739
Surr: DNOP	73.3	55.1-146	%Re	c ·	1	4/12/2020 3:02:25 PM	51739

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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 Limit

Page 1 of 11

Lab Order 2004512

Date Reported: 4/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Ford State 002

Lab ID: 2004512-002

Client Sample ID: S2-5'

Collection Date: 4/8/2020 10:18:00 AM

Received Date: 4/10/2020 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/13/2020 6:38:41 PM	51733
Surr: BFB	95.5	70-130	%Rec	1	4/13/2020 6:38:41 PM	51733
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/12/2020 3:26:38 PM	51739
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/12/2020 3:26:38 PM	51739
Surr: DNOP	84.9	55.1-146	%Rec	1	4/12/2020 3:26:38 PM	51739

Matrix: SOIL

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
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 11

Lab Order 2004512

Date Reported: 4/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Ford State 002

Lab ID: 2004512-003 Client Sample ID: BG 1

Collection Date: 4/8/2020 9:41:00 AM

Received Date: 4/10/2020 8:25:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	210	59	mg/Kg	20	4/14/2020 11:20:56 A	AM 51779

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- D H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 3 of 11

Lab Order 2004512

Date Reported: 4/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Ford State 002

Lab ID: 2004512-004

Client Sample ID: SW 1

Collection Date: 4/8/2020 2:09:00 PM

Received Date: 4/10/2020 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	200	60	mg/Kg	20	4/14/2020 11:33:21 AM	51779
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/13/2020 7:07:49 PM	51733
Surr: BFB	95.6	70-130	%Rec	1	4/13/2020 7:07:49 PM	51733
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/12/2020 4:15:02 PM	51739
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/12/2020 4:15:02 PM	51739
Surr: DNOP	87.3	55.1-146	%Rec	1	4/12/2020 4:15:02 PM	51739
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	4/13/2020 7:07:49 PM	51733
Toluene	ND	0.050	mg/Kg	1	4/13/2020 7:07:49 PM	51733
Ethylbenzene	ND	0.050	mg/Kg	1	4/13/2020 7:07:49 PM	51733
Xylenes, Total	ND	0.099	mg/Kg	1	4/13/2020 7:07:49 PM	51733
Surr: 1,2-Dichloroethane-d4	90.4	70-130	%Rec	1	4/13/2020 7:07:49 PM	51733
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	4/13/2020 7:07:49 PM	51733
Surr: Dibromofluoromethane	99.5	70-130	%Rec	1	4/13/2020 7:07:49 PM	51733
Surr: Toluene-d8	96.4	70-130	%Rec	1	4/13/2020 7:07:49 PM	51733

Matrix: SOIL

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
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 11

Lab Order 2004512

Date Reported: 4/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Ford State 002

Lab ID: 2004512-005

Client Sample ID: SW 2

Collection Date: 4/8/2020 2:13:00 PM

Received Date: 4/10/2020 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	4/14/2020 11:45:46 AM	51779
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/13/2020 7:36:58 PM	51733
Surr: BFB	98.0	70-130	%Rec	1	4/13/2020 7:36:58 PM	51733
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/12/2020 4:39:10 PM	51739
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/12/2020 4:39:10 PM	51739
Surr: DNOP	90.3	55.1-146	%Rec	1	4/12/2020 4:39:10 PM	51739
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	4/13/2020 7:36:58 PM	51733
Toluene	ND	0.050	mg/Kg	1	4/13/2020 7:36:58 PM	51733
Ethylbenzene	ND	0.050	mg/Kg	1	4/13/2020 7:36:58 PM	51733
Xylenes, Total	ND	0.099	mg/Kg	1	4/13/2020 7:36:58 PM	51733
Surr: 1,2-Dichloroethane-d4	93.4	70-130	%Rec	1	4/13/2020 7:36:58 PM	51733
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	4/13/2020 7:36:58 PM	51733
Surr: Dibromofluoromethane	103	70-130	%Rec	1	4/13/2020 7:36:58 PM	51733
Surr: Toluene-d8	96.9	70-130	%Rec	1	4/13/2020 7:36:58 PM	51733

Matrix: SOIL

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
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 11

Lab Order 2004512

Date Reported: 4/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Ford State 002

Lab ID: 2004512-006

Client Sample ID: SW 3

Collection Date: 4/8/2020 2:17:00 PM

Received Date: 4/10/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				·		Analyst:	JMT
Chloride	ND	60		mg/Kg	20	4/14/2020 11:58:10 AM	51779
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/13/2020 8:06:04 PM	51733
Surr: BFB	98.0	70-130		%Rec	1	4/13/2020 8:06:04 PM	51733
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/12/2020 5:03:24 PM	51739
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/12/2020 5:03:24 PM	51739
Surr: DNOP	84.8	55.1-146		%Rec	1	4/12/2020 5:03:24 PM	51739
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	ND	0.025		mg/Kg	1	4/13/2020 8:06:04 PM	51733
Toluene	ND	0.050		mg/Kg	1	4/13/2020 8:06:04 PM	51733
Ethylbenzene	ND	0.050		mg/Kg	1	4/13/2020 8:06:04 PM	51733
Xylenes, Total	ND	0.099		mg/Kg	1	4/13/2020 8:06:04 PM	51733
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	4/13/2020 8:06:04 PM	51733
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	4/13/2020 8:06:04 PM	51733
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/13/2020 8:06:04 PM	51733
Surr: Toluene-d8	98.1	70-130		%Rec	1	4/13/2020 8:06:04 PM	51733

Matrix: SOIL

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
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- PQL Practical Quantitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL. Reporting Limit

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Lab Order 2004512

Date Reported: 4/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Ford State 002

Lab ID: 2004512-007

Client Sample ID: SW 4

Collection Date: 4/8/2020 2:22:00 PM

Received Date: 4/10/2020 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	390	60	mg/Kg	20	4/14/2020 12:10:35 PM	51779
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/13/2020 8:35:08 PM	51733
Surr: BFB	100	70-130	%Rec	1	4/13/2020 8:35:08 PM	51733
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	4/12/2020 5:27:35 PM	51739
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/12/2020 5:27:35 PM	51739
Surr: DNOP	75.6	55.1-146	%Rec	1	4/12/2020 5:27:35 PM	51739
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	4/13/2020 8:35:08 PM	51733
Toluene	ND	0.050	mg/Kg	1	4/13/2020 8:35:08 PM	51733
Ethylbenzene	ND	0.050	mg/Kg	1	4/13/2020 8:35:08 PM	51733
Xylenes, Total	ND	0.099	mg/Kg	1	4/13/2020 8:35:08 PM	51733
Surr: 1,2-Dichloroethane-d4	92.4	70-130	%Rec	1	4/13/2020 8:35:08 PM	51733
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	4/13/2020 8:35:08 PM	51733
Surr: Dibromofluoromethane	103	70-130	%Rec	1	4/13/2020 8:35:08 PM	51733
Surr: Toluene-d8	97.4	70-130	%Rec	1	4/13/2020 8:35:08 PM	51733

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004512

15-Apr-20

Client:

Souder, Miller & Associates

Project:

Ford State 002

Sample ID: MB-51779

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 51779

RunNo: 68129

Prep Date:

4/14/2020

Analysis Date: 4/14/2020

SeqNo: 2355225

Units: mg/Kg HighLimit

Analyte Chloride

Result PQL ND

SPK value SPK Ref Val %REC LowLimit

%RPD

RPDLimit

Qual

Sample ID: LCS-51779

SampType: Ics

TestCode: EPA Method 300.0: Anions RunNo: 68129

Client ID: LCSS

Batch ID: 51779

Prep Date: 4/14/2020

Analysis Date: 4/14/2020

14

SeqNo: 2355226

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit** Qual HighLimit

1.5 15.00 92.4

110

Chloride

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2004512 WO#: 15-Apr-20

Client:

Souder, Miller & Associates

Ford State 002

Project: Ford Star	ite 002			
Sample ID: MB-51739	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 51739	RunNo: 68052		
Prep Date: 4/11/2020	Analysis Date: 4/12/2020	SeqNo: 2351642	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	5.8 10.00	57.5 55.1	146	
Sample ID: LCS-51739	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: LCSS	Batch ID: 51739	RunNo: 68052		
Prep Date: 4/11/2020	Analysis Date: 4/12/2020	SeqNo: 2351643	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		130	
Surr: DNOP	4.5 5.000	89.1 55.1	146	
Sample ID: MB-51742	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: PBS	Batch ID: 51742	RunNo: 68052		
Prep Date: 4/11/2020	Analysis Date: 4/13/2020	SeqNo: 2352273	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	8.2 10.00	81.7 55.1	146	
Sample ID: LCS-51742	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Rang	e Organics
Client ID: LCSS	Batch ID: 51742	RunNo: 68052		
Prep Date: 4/11/2020	Analysis Date: 4/13/2020	SeqNo: 2352274	Units: %Rec	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

96.4

5.000

4.8

55.1

146

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2004512

15-Apr-20

Client:

Souder, Miller & Associates

Project:

Ford State 002

Sample ID: mb-51733	ample ID: mb-51733 SampType: MBLK					TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch ID: 51733			F	RunNo: 68063							
Prep Date: 4/11/2020	Analysis [Date: 4/	13/2020		SeqNo: 2	352555	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.2	70	130					
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.3	70	130					
Surr: Dibromofluoromethane	0.45		0.5000		89.8	70	130					
Surr: Toluene-d8	0.48		0.5000		95.0	70	130					

Sample ID: Ics-51733	l'estCode: EPA Method 8260B; Volatiles Short List									
Client ID: BatchQC	Batc	h ID: 51	733	F	RunNo: 6	8063				
Prep Date: 4/11/2020	Analysis D	Date: 4/	13/2020	8	SeqNo: 2	352556	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xvlenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.8	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID: Ics-51743	SampT	SampType: LCS			tCode: El	Code: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batch	n ID: 51	743	F	RunNo: 6	8093						
Prep Date: 4/11/2020	Analysis D	ate: 4/	13/2020	S	SeqNo: 2	354045	Units: %Red	;				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130					
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.9	70	130					
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130					
Surr: Toluene-d8	0.48		0.5000		96.7	70	130					

Sample ID: mb-51743	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS		1 ID: 51	743 /13/2020		RunNo: 6		Units: %Rec				
Prep Date: 4/11/2020 Analyte	Analysis D Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.9	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.1	70	130				
Surr: Dibromofluoromethane	0.49		0.5000		98.3	70	130				
Surr: Toluene-d8	0.49		0.5000		98.3	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- F. Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004512 15-Apr-20

Client:

Souder, Miller & Associates

Project:

Ford State 002

Sample ID: mb-51733	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	1D: 51 7	733	F	RunNo: 68	8063				
Prep Date: 4/11/2020	Analysis D	ate: 4/	13/2020	5	SeqNo: 2	352567	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 500	5.0	500.0		99.6	70	130			
Sample ID: Ics-51733	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: 51	733	F	RunNo: 6	8063				
Prep Date: 4/11/2020	Analysis D	Date: 4/	13/2020		SeqNo: 2	352568	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.1	70	130			
Surr: BFB	490		500.0		98.0	70	130			
Sample ID: Ics-51743	SampT	Type: LC	s	Tes	tCode: E	PA Method	8015D Mod:	Gasoline	Range	

Sample ID: Ics-51743	SampT	pe: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch	ID: 51	743	R	RunNo: 68	8093				
Prep Date: 4/11/2020	Analysis Da	ate: 4/	13/2020	S	SeqNo: 23	354087	Units: %Red	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	490		500.0		97.3	70	130			

Sample ID: mb-51743	SampType: MBLK	TestCode: E	PA Method	8015D Mod: 0	asoline i	Range	
Client ID: PBS	Batch ID: 51743	RunNo: 6	8093				
Prep Date: 4/11/2020	Analysis Date: 4/13/2020	SeqNo: 2	354088	Units: %Rec			
Analyte	Result PQL SPK va	alue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	510 50	00.0 102	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: SMA-CARLSBAD Work Order Number: 2004512 RcptNo: 1 4/10/2020 8:25:00 AM Received By: Isaiah Ortiz 4/10/2020 9:36:53 AM Completed By **Desiree Dominguez** 4/10/20 Reviewed By: Chain of Custody Not Present Yes V 1. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Courier Log In NA 🗌 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 5. Sample(s) in proper container(s)? No _ Yes 🗸 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes V 7. Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes No V 8. Was preservative added to bottles? NA V Yes No 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No V Yes 10. Were any sample containers received broken? # of preserved bottles checked for pH: No L Yes V 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12 Are matrices correctly identified on Chain of Custody? No 🗌 13. Is it clear what analyses were requested? Checked by: 38 4/10/20 No 🗌 Yes 🗸

Special Handling (if applicable)

14. Were all holding times able to be met? (If no, notify customer for authorization.)

15. Was client notified of all discrepancies with this order?	Yes No No NA
Person Notified:	Date:
By Whom:	Via: eMail Phone Fax In Person
Regarding:	
Client Instructions:	

16. Additional remarks:

17. Cooler Information

Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Not Present			

20

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TEX MT 100 100 100 100 100 100 100 10	H:8015D B1 Pestid B2 (Methor HS by 83 HS BR, 1 F, Br, 1 F, Br, 1 OOA
TEX) MTB TPH:8015D(C) 3081 Pesticic EDB (Method PAHS BY 831 SCRA 8 Meta SCRA 8 Meta SCRA 8 Meta	EX) MTB H:8015D(0 81 Pesticio BB (Methoo Hs by 831 PF, Br, No F, Br, No F, Br, No OOA)
TEX) MTBE 10081 Pesticide 10081 Pesticide 1008	H:8015D(GI B) H:8015D(GI B) Hesticide AHs by 8310 AHs by 8310 AHs B) Metal AHs B) M
TEX) MTBE TPH:8015D(GR 3081 Pesticides PAHs by 8310 RCRA 8 Metals RCRA 8 Metals RCRA 8 Metals	EX) MTBE H:8015D(GR 81 Pesticides DB (Method 5 Hs by 8310 PF, Br, NO3 PF, Br, NO3 DR 8 Metals
TEX MTBE / Solution of the control o	A MTBE /
TEX) MTBE / BOB1 Pesticides/8 BOB1 Pesticides/8 CRA 8 Metals RCRA 8 Metals CRA 8 Metals	EX MTBE / H:8015D(GRO 81 Pesticides/8 DB (Method 50 Hs by 8310 or CRA 8 Metals AR 8 Metals
TEX) MTBE / T 100 (GRO) 100 (Actioides/8) 100 (Actioides/8)	EX) MTBE / T H:8015D(GRO) 81 Pesticides/8 B (Method 504 Hs by 8310 or 8 PR 8 Metals PR 8 Metals
TEX MTBE / TI 10081 Pesticides/80 10081 Pesticide	EX MTBE / TI H:8015D(GRO / 81 Pesticides/80 Method 504. Hs by 8310 or 8 AR 8 Metals PF, Br, NO ₃ , No F, Br, NO ₃ , No ON (YOA)
TEX) MTBE / TM 10081 Pesticides/808 10081	EX) MTBE / TW H:8015D(GRO / D 81 Pesticides/808 NB (Method 504.1 AHS by 8310 or 82 PF, Br, NO ₃ , NO PF, Br, NO ₃ , NO PF, Br, NO ₃ , NO PF, Br, NO ₃ , NO
TEX MTBE / TMB MTBE / TMB MTBE / TMB MTBE / TMB MTBE / DB MEthod 504.1) EDB (Method 504.1) SCRA 8 Metals CRA 8 Metals CRA 8 Metals CRA 8 Metals CORA 8 Metals	FX MTBE / TMB H:8015D(GRO / DB R) H:8015D(GRO / DB R) H:8015D(GRO / DB R) Hs by 8310 or 827 PR 8 Metals PF, Br, NO ₃ , NO ₂ PC R) P
HEAL No. 15 (C) MTBE / TMB TEX MTB / TMB TEX MTBE / TMB TEX MTBE / TMB TEX MTBE / TMB TEX MTBE /	H.8015D(GRO / DR 81 Pesticides/8082 AH by 8310 or 827 AH by 8310 or 827 F, Br, NO ₃ , NO ₂ , F, Br, NO ₃ , NO ₂ ,
HEAL No. 15 (CRO / DR. 15 (CRO	EX MTBE / TMB' H:8015D(GRO / DR) B1 Pesticides/8082 AH: B1 Pesticides/8082 AH: B2
TEX MTBE / TMB's MTBE / TMB's MS1 Pesticides/8082 PSCRA 8 Metals SCRA 9	EAL NO SHORT STATE AND STA
## A No. Comi-VOA	EAL NO 3, NO 2, F. Br, NO 3, NO (Semi-VOA)
HEAL NO. THE ALMENS THE ALM STORE (NO. 1) PRO STORE (NO. 1) PAHS BY 8310 or 82709 PAHS b	H.8015D(GRO / DRO BY 18015D(GRO / DRO BY 18015D(GRO / DRO BY 19015D) B. (Method 504.1) B. (Method 504.1) B. (Method 504.1) CRA 8 Metals F., Br, NO ₃ , NO ₂ , P CO (VOA)
HEAL No. 15 (C)	H.8015D(GRO / DRO BY BO15D(GRO / DRO BY BO15D(GRO / DRO BY BO15D(GRO / DRO BY BO15D OF 8270S) F, Br, NO ₃ , NO ₂ , Pro Br, NO ₂ , Pro Br, NO ₃ , NO
HEAL N. MTBE / TMB's (P. M.	EA MTBE / TMB's (PA) H:8015D(GRO / DRO / B) B (Method 504.1) AHS B Metals AHS B Met
HEAL No. 15 PC CO. 15 PC C	EX) MTBE / TMB's (H:8015D(GRO / DRO / B1 Pesticides/8082 PC B2 (Method 504.1) B3 (Method 504.1) B4 B7 NO ₃ , NO ₂ , PC B7 B1, NO ₃ , NO ₂ , PC B7 B1, NO ₃ , NO ₂ , PC B1, NO ₃ , NO ₂ , PC
HEAL No. (Semi-VOA) 12.70 (Semi-VOA)	EA MTBE / TMB's (8 H:8015D(GRO / DRO / B1 Pesticides/8082 PC / DRO
## A No. 10 PR N	FX MTBE / TMB's (8) H:8015D(GRO / DRO / BA) B1 Pesticides/8082 PC B2 (Method 504.1) B4 by 8310 or 82705lM B7 B Metals
## A No. 10 PR N	EA MTBE / TMB's (8) H:8015D(GRO / DRO / B) B (Method 504.1) AHS by 8310 or 82705IN CRA 8 Metals AP 9 M
HEAL N. MTBE / TMB's (8) 2081 Pesticides/8082 PCE PPHs by 8310 or 82705IM PCRA 8 Metals PCRA 9 Metal	EA MTBE / TMB's (8 H:8015D(GRO / DRO / I) B (Method 504.1) CRA 8 Metals CRA 8 Metals F, Br, NO ₃ , NO ₂ , PO CO (VOA)
HEAL N. MTBE / TMB's (8) 10081 Pesticides/8082 PCE DB (Method 504.1) 2CRA 8 Metals 3CRA 8 Metals 3CR	EA MTBE / TMB's (8 H:8015D(GRO / DRO / I) B (Method 504.1) CRA 8 Metals
HEAL No. 15 (Semi-VOA) STEX) MTBE / TMB's (86) TPH:8015D(GRO / DRO / No. 17) SOB1 Pesticides/8082 PCE EDB (Method 504.1) SCRA 8 Metals	EA MTBE / TMB's (8) H:8015D(GRO / DRO / N B1 Pesticides/8082 PCE AHS Dy 8310 or 8270SIM CRA 8 Metals ARS 9 Me
TEX MTBE / TMB's (80 PPH:8015D(GRO / DRO / N PPH:8015D(GRO / N PPH:8015D	EA MTBE / TMB's (80 H:8015D(GRO / DRO / NET BE / TMB's (80 B) B (Method 504.1) EA Metals CRA 8 Metals
TEX MTBE / TMB's (80 PPH:8015D(GRO / DRO / M PPH:8015D(GRO / M PPH	EA MTBE / TMB's (80 H:8015D(GRO / DRO / METAL A BOTTO OF 8270SIM:
TEX MTBE / TMB's (80 PP.) TPH:8015D(GRO / DRO / M B081 Pesticides/8082 PCB's PAHS by 8310 or 8270SIM3 PAHS by 8310 or 8270SIM3 PAHS by 8310 or 8270SIM3 PCRA 8 Metals PCRA 9 PCR	EX) MTBE / TMB's (80) H:8015D(GRO / DRO / M 81 Pesticides/8082 PCB' B (Method 504.1) AHS by 8310 or 8270SIM3 ARS 8 Metals ARS 9 Metals
TEX MTBE / TMB's (802) TPH:8015D(GRO / DRO / MS) TEX MTBE / TMB's (803) TPH:8015D(GRO / DRO / MS) TEX MEtals TOTAL BY 8310 or 8270SIMS TOTAL BY 8310 or 8270SIMS TOTAL BY NO3, NO2, PO4, PO4, PO4, PO4, PO4, PO4, PO4, PO4	EX MTBE / TMB's (80) H:8015D(GRO / DRO / M) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals APS 9 Metals APS
TEX MTBE / TMB's (802) 1081 Pesticides/8082 PCB's 1082 PCR 8 Metals 1082 PCR 8 Metals 1083 PCR 8 Metals 1084 PCR 8 Metals 1084 PCR 8 Metals	H.8015D(GRO / DRO / MI H.8015D(GRO / DRO / MI 81 Pesticides/8082 PCB's AHS by 8310 of 8270SIMS ARA 8 Metals ARA 9 Metals A
TEX MTBE / TMB's (802) 1081 Pesticides/8082 PCB's 1082 PCR 8 Metals 1082 PCR 8 Metals 1083 PCR 8 Metals 1084 PCR 8 Metals 1084 PCR 8 Metals	H.8015D(GRO / DRO / MI H.8015D(GRO / DRO / MI 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS ARA 8 Metals ARA 9 Metals A
TEX MTBE / TMB's (802) 1081 Pesticides/8082 PCB's 1082 PCR 8 Metals 1082 PCR 8 Metals 1083 PCR 8 Metals 1084 PCR 8 Metals 1084 PCR 8 Metals	H.8015D(GRO / DRO / MI H.8015D(GRO / DRO / MI 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS ARA 8 Metals ARA 9 Metals A
TEX MTBE / TMB's (802) 1081 Pesticides/8082 PCB's 1082 PCR 8 Metals 1082 PCR 8 Metals 1083 PCR 8 Metals 1084 PCR 8 Metals 1084 PCR 8 Metals	H.8015D(GRO / DRO / MI H.8015D(GRO / DRO / MI 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS ARA 8 Metals ARA 9 Metals A
TEX MTBE / TMB's (802) 1081 Pesticides/8082 PCB's 1082 PCR 8 Metals 1082 PCR 8 Metals 1083 PCR 8 Metals 1084 PCR 8 Metals 1084 PCR 8 Metals	H.8015D(GRO / DRO / MI H.8015D(GRO / DRO / MI 81 Pesticides/8082 PCB's AHS by 8310 of 8270SIMS ARA 8 Metals ARA 9 Metals A
TEX MTBE / TMB's (802) 1081 Pesticides/8082 PCB's 1082 PCR 8 Metals 1082 PCR 8 Metals 1083 PCR 8 Metals 1084 PCR 8 Metals 1084 PCR 8 Metals	H.8015D(GRO / DRO / MI H.8015D(GRO / DRO / MI 81 Pesticides/8082 PCB's AHS by 8310 of 8270SIMS ARA 8 Metals ARA 9 Metals A
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MG PPG / MG PP	EA MTBE / TMB's (80) H:8015D(GRO / DRO / M) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals APS 9 Metals APS
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MG PPG / MG PP	EA MTBE / TMB's (80) H:8015D(GRO / DRO / M) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals APS 9 Metals APS
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MG PPG / MG PP	EA MTBE / TMB's (80) H:8015D(GRO / DRO / M) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals APS 9 Metals APS
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) Method 504.1) SCRA 8 Metals SCRA 8 Metals Chyp., Br, NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , PO	H.8015D(GRO / DRO / M H.8015D(GRO / DRO / M 81 Pesticides/8082 PCB's AHs by 8310 or 8270SIMS ARA 8 Metals ARA
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) Method 504.1) SCRA 8 Metals SCRA 8 Metals Chyp., Br, NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , PO	H.8015D(GRO / DRO / M H.8015D(GRO / DRO / M 81 Pesticides/8082 PCB's AHs by 8310 or 8270SIMS ARA 8 Metals ARA
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) Method 504.1) SCRA 8 Metals SCRA 8 Metals Chyp., Br, NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , PO	H.8015D(GRO / DRO / M H.8015D(GRO / DRO / M 81 Pesticides/8082 PCB's AHs by 8310 or 8270SIMS ARA 8 Metals ARA
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) Method 504.1) SCRA 8 Metals SCRA 8 Metals Chyp., Br, NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , PO	H.8015D(GRO / DRO / M H.8015D(GRO / DRO / M 81 Pesticides/8082 PCB's AHs by 8310 or 8270SIMS ARA 8 Metals ARA
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) Method 504.1) SCRA 8 Metals SCRA 8 Metals Chyp., Br, NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , NO ₃ , NO ₃ , NO ₂ , PO ₄ , DA ₂ , PO ₄ , PO	H.8015D(GRO / DRO / M H.8015D(GRO / DRO / M 81 Pesticides/8082 PCB's AHs by 8310 or 8270SIMS ARA 8 Metals ARA
TEX MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MTBE / TMB's (80 PPG) MG PPG / MG PP	EA MTBE / TMB's (80) H:8015D(GRO / DRO / M) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals AF, Br, NO ₃ , NO ₂ , PO ₄ , Br, NO ₃ , NO ₂ , PO ₄ , CO (VOA)
TEX MTBE / TMB's (802) TPH:8015D(GRO / DRO / MS) TEX MTBE / TMB's (803) TPH:8015D(GRO / DRO / MS) TEX MEtals TOTAL BY 8310 or 8270SIMS TOTAL BY 8310 or 8270SIMS TOTAL BY NO3, NO2, PO4, PO4, PO4, PO4, PO4, PO4, PO4, PO4	EX MTBE / TMB's (80) H:8015D(GRO / DRO / M) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals APS 9 Metals APS
TEX MTBE / TMB's (802) 1081 Pesticides/8082 PCB's 1082 PCR 8 Metals 1082 PCR 8 Metals 1083 PCR 8 Metals 1084 PCR 8 Metals 1084 PCR 8 Metals	H.8015D(GRO / DRO / MI H.8015D(GRO / DRO / MI 81 Pesticides/8082 PCB's AHS by 8310 of 8270SIMS ARA 8 Metals ARA 9 Metals A
TEX MTBE / TMB's (802) 10081 Pesticides/8082 PCB's 10081 PCB's	EX MTBE / TMB's (802) H:8015D(GRO / DRO / MB) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals APS BRetals APS BRE ANOS, NO2, PO4, BC (VOA) TO (Semi-VOA)
TEX MTBE / TMB's (802) 10081 Pesticides/8082 PCB's 10081 PCB's	H.8015D(GRO / DRO / MR / Altonology / DRO / MR / Br / DRO
TEX MTBE / TMB's (802) TPH:8015D(GRO / DRO / MF) SOB1 Pesticides/8082 PCB's FDB (Method 504.1) SCRA 8 Metals	EX MTBE / TMB's (802) H:8015D(GRO / DRO / MR) 81 Pesticides/8082 PCB's AHs by 8310 or 8270SIMS CRA 8 Metals AP 9 M
TEX MTBE / TMB's (802) TPH:8015D(GRO / DRO / MF) SOB1 Pesticides/8082 PCB's FDB (Method 504.1) SCRA 8 Metals	EX MTBE / TMB's (802) H:8015D(GRO / DRO / MR) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS CRA 8 Metals APS BRetals APS BRE ANO3, NO2, PO4, 9 CO (VOA)
HEAL NO SHOOT DRO / MR STECK MTBE / TMB's (802 PCB's BO81 Pesticides/8082 PCB's PCRA 8 Metals PCRA 9	H.8015D(GRO / DRO / MR H.8015D(GRO / DRO / MR 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS AHS B Metals ARS 8 Metals ARS 9 Metals ARS 8 Metals A
HEAL NOTE THE'S (802) 10081 Pesticides/8082 PCB's 10081 PCB's	H.8015D(GRO / DRO / MR 81 Pesticides/8082 PCB's B1 Method 504.1) CRA 8 Metals AP 8310 or 8270SIMS AP 8 Metals AP 9 M
TEX MTBE / TMB's (802) 10081 Pesticides/8082 PCB's 10081 PCB's	H.8015D(GRO / DRO / MR 81 Pesticides/8082 PCB's AHS Wethod 504.1) BR (Method 504.1) CRA 8 Metals AHS B Metals
TEX MTBE / TMB's (802- 10081 Pesticides/8082 PCB's 10081 Pesticides/8082 PCB's 10081 Pesticides/8082 PCB's 10081 Pesticides/8082 PCB's 10081 Pesticides/8082 PCB's 10081 Posticides/8082 PCB's 10081 PCB's 1008	EX MTBE / TMB's (802- H:8015D(GRO / DRO / MR) 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS ARS 8 Metals ARS 9 Metals ARS 8 Metals A
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (802-7081 Pesticides/8082 PCB's PCRA 8 Metals PCRA 9 PC	EX) MTBE / TMB's (802*) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS by 8310 or 8270SIMS ARS 8 Metals ARS 9 Metals
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (8021) 10081 Pesticides/8082 PCB's 10081 PCB's 1	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MRO 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (8021) 10	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MR0 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B Metals ARS B
TEX MTBE / TMB's (8021 1081 Pesticides/8082 PCB's 1081 Pesticides/8082 PCB's 1081 Pesticides/8082 PCB's 1081 Pesticides/8082 PCB's 1081 Pesticides/8082 PCB's 1081 Pesticides/8082 PCB's 1081 PCB's 1082 POA, S 1083 POA, S 1084 B Metals 1084 B Metals 1085 POA, S 1085 POA, S	EX) MTBE / TMB's (8021) H:8015D(GRO / DRO / MRO 81 Pesticides/8082 PCB's AHS Wethod 504.1) AHS B Metals AHS B

APPENDIX D SOIL CLASSIFICATION

KM

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Kermit

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very

high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: Deep Sand (R042XC005NM)

Hydric soil rating: No



KM

Description of Berino

Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Very slightly saline to slightly saline

(2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reeves

Setting

Landform: Hills, plains, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 25 percent

Gypsum, maximum in profile: 80 percent

Salinity, maximum in profile: Very slightly saline to moderately

saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 4.0

Available water storage in profile: Low (about 4.3 inches)

RG

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Hills, plains, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Largo

Percent of map unit: 5 percent

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

SM

Eddy Area, New Mexico

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent Bippus and similar soils: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Simona

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 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 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D



SM

Ecological site: Shallow Sandy (R042XC002NM)

Hydric soil rating: No

Description of Bippus

Setting

Landform: Alluvial fans, flood plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex Across-slope shape: Linear Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 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: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Bottomland (R042XC017NM)

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 8 percent

Ecological site: Shallow Sandy (R042XC002NM)

Hydric soil rating: No

Bippus

Percent of map unit: 7 percent

Ecological site: Bottomland (R042XC017NM)

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020 SM

Eddy Area, New Mexico

TC—Tonuco loamy sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w60 Elevation: 3,000 to 4,100 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 217 days

Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 98 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Tonuco

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 5 inches: loamy sand H2 - 5 to 15 inches: loamy fine sand H3 - 15 to 19 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 6 to 20 inches to petrocalcic

Natural drainage class: Excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Very low (about 1.1 inches)

Interpretive groups

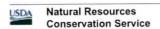
Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Sandy (R042XC004NM)

Hydric soil rating: No



Map Unit Description: Tonuco loamy sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

TC

Minor Components

Tonuco

Percent of map unit: 1 percent Ecological site: Sandy (R042XC004NM) Hydric soil rating: No

Dune land

Percent of map unit: 1 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Eddy Area, New Mexico

UG—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w64 Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 15 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: 96 percent Minor components: 4 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Upton

Setting

Landform: Fans, ridges

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 9 inches: gravelly loam H2 - 9 to 13 inches: gravelly loam H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 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 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Shallow (R042XC025NM)

Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 1 percent

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Upton

Percent of map unit: 1 percent

Ecological site: Shallow (R042XC025NM)

Hydric soil rating: No

Reagan

Percent of map unit: 1 percent

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020