



PO Box 1120
 Carlsbad, New Mexico 88221
 Phone (575) 236-6600

September 20, 2019

NMOCD District 1
 1625 N. French Drive
 Hobbs, New Mexico 88240

To Whom it May Concern:

M&M Excavating, Inc. (MMX) has prepared this Remediation Plan for Devon Energy Production Company that describes the delineation and proposed remediation of a release of liquids at the Thistle Unit #044H site. The site is in Unit N, Section 33, Township 23S, Range 33E, Latitude 32.254921, Longitude -103.579361, Lea County, New Mexico, on State land. Figure 1 provides the vicinity and site location on an USGS 7.5-minute quadrangle map.

Site Information and Closure Criteria

The Thistle Unit #044H is located approximately thirty (30) miles east of Loving, New Mexico on State land at an elevation of approximately 3,666 feet above mean sea level (amsl).

Based upon well water data. (Appendix B), depth to groundwater in the area is estimated to be between 378 and 384 feet below grade surface (bgs). There are no known water wells within ½ mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) and USGS. The nearest significant watercourse is an unnamed intermittent stream located approximately 5300 feet to the south.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for groundwater depth of greater than 100 feet bgs. Table 2 demonstrates Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

Release Information and Closure Criteria			
Name	Thistle Unit #044H		
API Number	30-025-41032		
Incident Number	1RP-5372		
Source of Release	Free water knock-out		
Released Material	Produced Water (PW) & Crude Oil (CO)	Released Volume	18.38 BBLs PW 4 BBLs CO
Recovered Volume	16 BBLs PW 2 BBLs CO	Net Release	2.38 BBLs PW 2 BBLs CO
NMOCD Closure Criteria	>100 feet to groundwater		

Release Information

On February 5, 2019, a release was discovered at the Thistle Unit #044H site. The free water knock-out failed, causing 18.38 bbls of produced water and 4 bbls of crude oil to be released onto the pad, flowing under the horizontal separators and surface electrical lines. Initial response activities were conducted by the operator and included source elimination and site containment and stabilization, recovering 16 bbls of produced water and 2 bbls of crude oil. 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.

Release Characterization and Remediation Activities

On August 21, 2019, MMX personnel arrived on site in response to the release associated with Thistle Unit #044H. MMX collected soil samples from four (4) sample locations (L1 - L4) around the release site and throughout the visibly stained area from the surface and at one-foot depth. Soil depth in the area is shallow, with refusal being met at one-foot bgs at location L3 and two feet bgs at location L4.

A total of eight (8) samples were collected for laboratory analysis for a combination 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. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Cardinal Laboratories in Hobbs, New Mexico (Appendix C).

As summarized in Table 3, the TPH levels at sample location L4 at 1-foot bgs exceeded the site's closure criteria. MMX personnel returned to the location on September 6, 2019 to collect a sample at two feet bgs at sample location L4 for TPH.

Laboratory results are summarized in Table 3. All Laboratory reports are included in Appendix C.

On behalf of Devon Energy, MMX requests a deferral for release 1RP-5372 as per 19.15.29.12.C.(2). As illustrated in Figure 3, the release area is directly underneath and bordered by production equipment, tanks and surface and buried lines. Remediation of the release area would be a safety concern and require major facility reconstruction. As detailed above, the release has been delineated to the extent possible and the contamination does not cause an imminent risk to human health, the environment or groundwater.

Submitted by:
M&M Excavating, Inc.

Lupe Carrasco

Lupe Carrasco

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

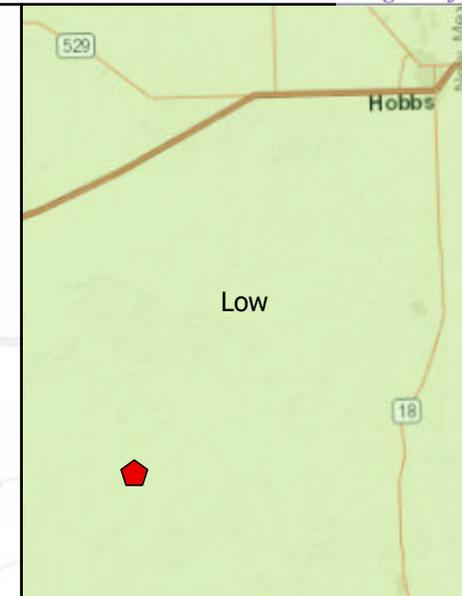
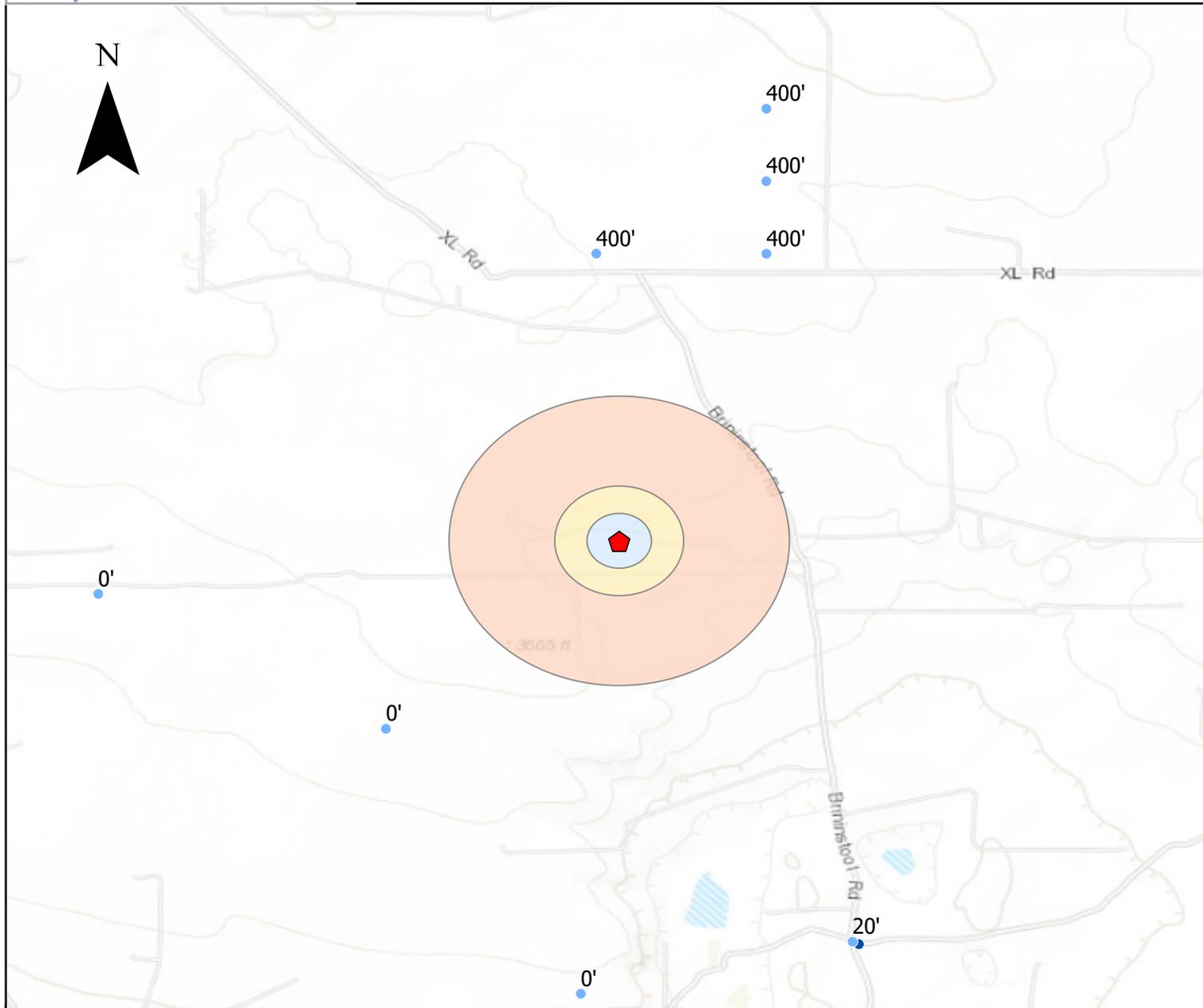
Appendices:

Appendix A: Form C-141

Appendix B: Water Well Data

Appendix C: Laboratory Analytical Reports

Figures



Karst Potential

- High
- Low
- Medium

Point of Release

- Point of Release

OSE Waterwells

- OSE Waterwells

USGS Waterwells

- USGS Waterwells

Buffer Distance

- .5 Mile
- 1000 Feet
- 500 Feet

0 0.22 0.43 0.87 Miles

Regional Vicinity & Wellhead Protection Map
 Thistle Unit #004H - Devon Energy
 Sec 33 T23S R33E Lea County, New Mexico

Figure 1

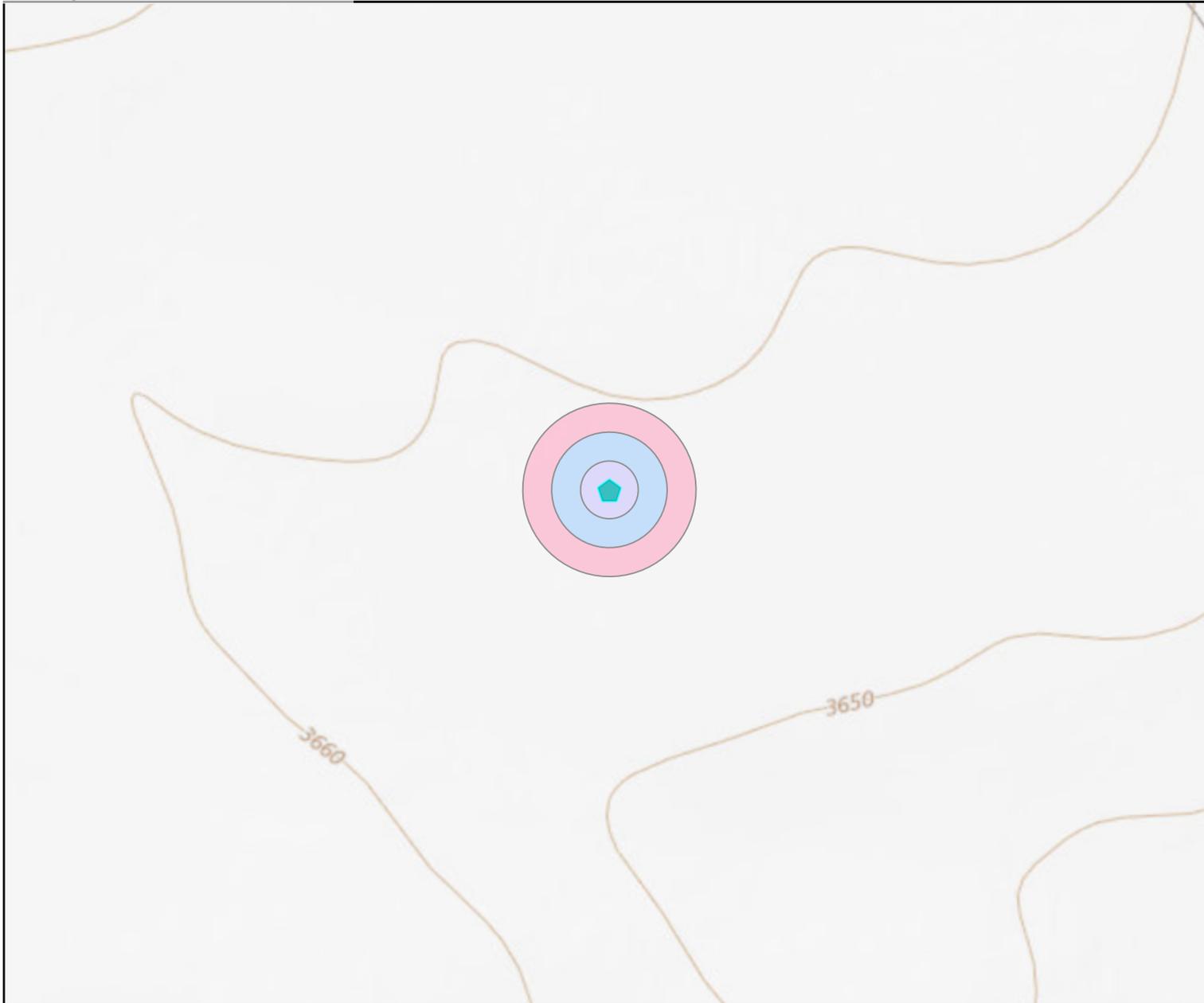
P:\5-MM Excavating (5128335)\GIS\ARCGIS\MMX_MIT.aprx

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

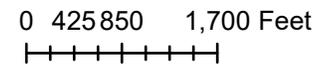
Drawn	LC
Date	7/18/2019
Checked	_____
Approved	_____



78 Roberson Rd
 Carlsbad, NM 88220
 (575) 230-6600



- Point of Release
 - Springs Seeps
 - Streams Canals
 - Rivers
 - NM Wetlands
 - Lakes Playas
 - FEMA Flood Zones 2011
- Buffer Distance**
- 100 Feet
 - 200 Feet
 - 300 Feet
 - Release Area



Surface Water Protection Map
 Thistle Unit #004H - Devon Energy
 Sec 33 T23S R33E Lea County, New Mexico

Figure 2

P:\5-M&M Excavating (5128335)\GIS\ARCGIS\MMX_MIT.aprx

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

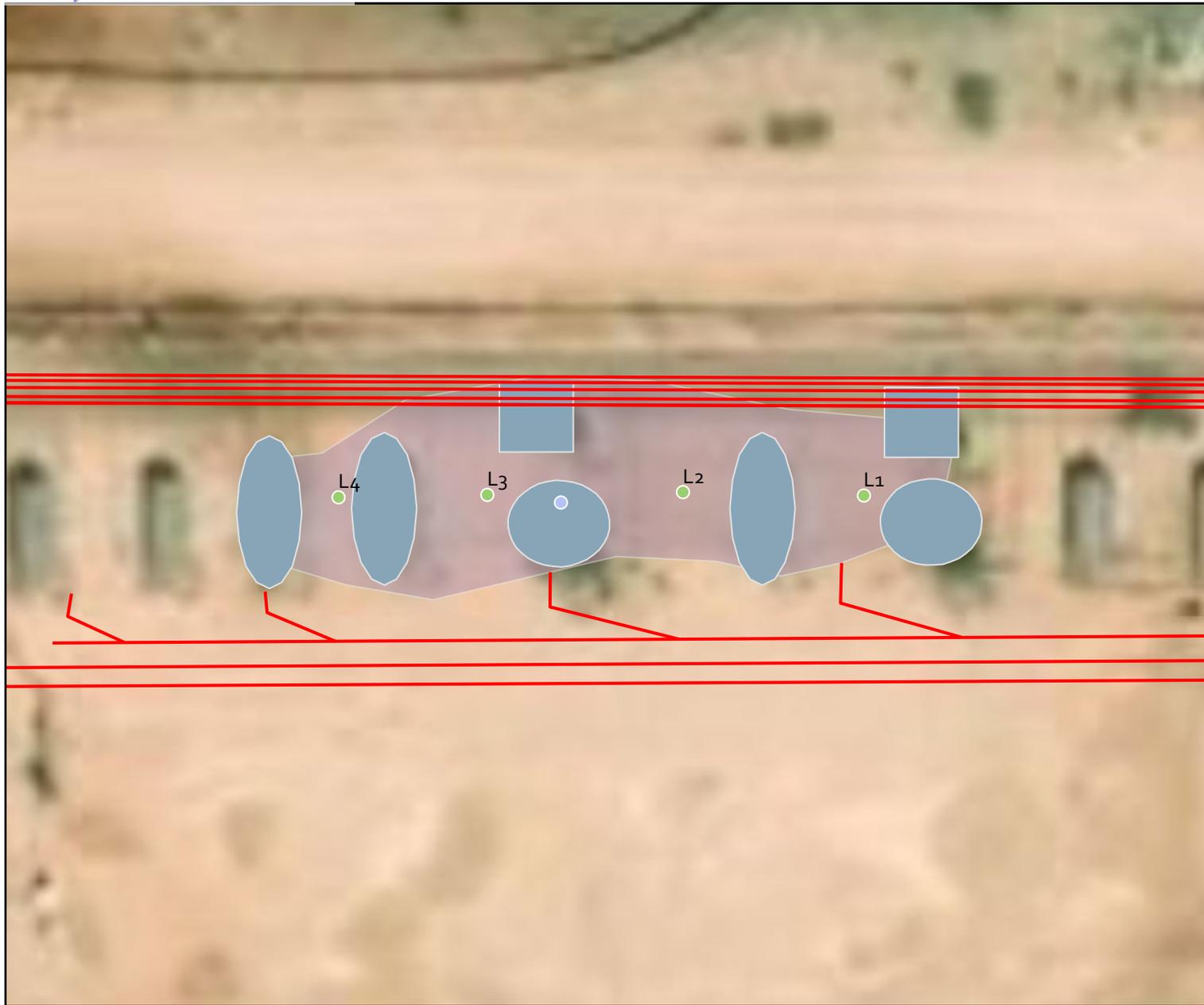
Date Saved: 7/18/2019

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Drawn	LC
Date	7/18/2019
Checked	_____
Approved	_____



78 Roberson Rd
 Carlsbad, NM 88220
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- Equipment
- Release Area
- Pipelines
- Point of Release
- Sample Locations



38
 Feet

Site & Sample Locations
Thistle Unit #044H - Devon Energy
Sec. 33 T23S R33E, Lea County, NM

Figure 3

P:\5-MM Excavating (5128335)\GIS\ARC\GIS\MMX_MIT.aprx

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

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Drawn	LC
Date	9/20/2019
Checked	_____
Approved	_____



78 Roberson Rd
 Carlsbad, NM 88220
 (575) 236-6600

Tables

Table 2: NMOCD Closure Criteria

Thistle Unit #044H
Devon Energy Production Company
1RP-5372

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	378-384	NMOSE (Appendix B)
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	--	
Horizontal Distance to Nearest Significant Watercourse (ft)	5300	Unnamed intermittent stream to the south

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater	Closure Criteria (units in mg/kg)					
	Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene	
Less than 50' BGS	600	100		50	10	
51' to 100'	10000	2500	1000	50	10	
Greater than 100'	x	20000	2500	1000	50	10
Surface Water	Yes	No	if yes, then			
Less than 300' from continuously flowing watercourse or other significant watercourse?		x	600	100	50	10
Less than 200' from lakebed, sinkhole or playa lake?		x				
Water Well or Water Source						
Less than 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?		x				
Less than 1000' from fresh water well or spring?		x				
Human and Other Areas						
Less than 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				
Less than 100' from wetland?		x				
Within area overlying a subsurface mine		x				
Within an unstable area?		x				
Within a 100-year floodplain?		x				



Table 3: Summary of Sample Results

Thistle Unit #044H
 Devon Energy Production Company
 1RP-5372

Sample ID	Sample Date	Depth (feet bgs)	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- mg/Kg	
NMOCD Closure Criteria			50	10				2,500	20,000	
L1	8/21/2019	surface	<0.300	<0.050	<10.0	2260	681	2941	304	
		1	--	--	<10.0	<10.0	<10.0	<30.0	192	
L2		surface	9.43	<0.050	218	7,880	1700	9,798	1200	
		1	--	--	<10.0	25.8	<10.0	25.8	1330	
L3		surface	7.16	<0.500	108	8,580	1,470	10,158	128	
		1	--	--	<10.0	257	53.9	310.9	16	
L4		8/21/2019	surface	56.2	<0.500	757	14,000	2,660	17,417	1790
			1	--	--	123	3610	731	4,464	160
	9/6/2019	2	--	--	<10.0	123	25.1	148.1	--	



Appendix A
C141 Forms

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: <u>Kendra DeHoyos</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u></u> Date: _____

Incident ID	
District RP	1RP-5372
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?	<u>378</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5372
Facility ID	
Application ID	

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: Wesley Mathews Title: EHS Professional

Signature: Wesley Mathews Date: 2/25/2020

email: wesley.mathews@dvn.com Telephone: 575-746-5549

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-5372
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the 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: Wesley Mathews Title: EHS Professional
 Signature: Wesley Mathews Date: 2/25/2020
 email: wesley.mathews@dvn.com Telephone: 575-746-5549

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Appendix B
Water Well Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518	1519			
C 02279		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	1600	650	400	250
C 02281		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	1741	545	400	145
C 02280		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	2116	650	400	250
C 02308		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	2487	40	20	20
													Average Depth to Water:	305 feet	
													Minimum Depth:	20 feet	
													Maximum Depth:	400 feet	

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 633820

Northing (Y): 3569578

Radius: 2500

*UTM location was derived from PLSS - see Help

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

7/18/19 9:53 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C
Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 05, 2019

MELODIE SANJARI

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: 44 H

Enclosed are the results of analyses for samples received by the laboratory on 08/26/19 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L 1 - SURFACE	H902929-01	Soil	21-Aug-19 06:00	26-Aug-19 11:15
L 1 - 1'	H902929-03	Soil	21-Aug-19 06:10	26-Aug-19 11:15
L 2 - SURFACE	H902929-04	Soil	21-Aug-19 07:00	26-Aug-19 11:15
L 2 - 1'	H902929-06	Soil	21-Aug-19 07:10	26-Aug-19 11:15
L 3 - SURFACE	H902929-07	Soil	21-Aug-19 08:00	26-Aug-19 11:15
L 3 - 1'	H902929-09	Soil	21-Aug-19 08:10	26-Aug-19 11:15
L 4 - SURFACE	H902929-10	Soil	21-Aug-19 09:00	26-Aug-19 11:15
L 4 - 1'	H902929-12	Soil	21-Aug-19 09:10	26-Aug-19 11:15

09/04/19 - Client added TPH to samples -03, -06, -09, -12.

09/05/19 - This is the revised report and will replace the one sent on 08/30/19.

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived 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 damage 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 claim 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.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

L 1 - SURFACE
H902929-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9082803	BF	28-Aug-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.5 %		73.3-129	9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9082707	CK	27-Aug-19	8015B	
DRO >C10-C28*	2260		10.0	mg/kg	1	9082707	CK	27-Aug-19	8015B	
EXT DRO >C28-C36	681		10.0	mg/kg	1	9082707	CK	27-Aug-19	8015B	

Surrogate: 1-Chlorooctane			83.2 %		41-142	9082707	CK	27-Aug-19	8015B	
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Surrogate: 1-Chlorooctadecane			172 %		37.6-147	9082707	CK	27-Aug-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

L 1 - 1'**H902929-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
Surrogate: 1-Chlorooctane			87.7 %	41-142		9090401	MS	04-Sep-19	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	37.6-147		9090401	MS	04-Sep-19	8015B	

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Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

L 2 - SURFACE**H902929-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1200		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Toluene*	1.01		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	1.71		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	6.71		0.150	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total BTEX	9.43		0.300	mg/kg	50	9082803	BF	28-Aug-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %	73.3-129		9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	218		10.0	mg/kg	1	9082707	CK	27-Aug-19	8015B	
DRO >C10-C28*	7880		10.0	mg/kg	1	9082707	CK	27-Aug-19	8015B	
EXT DRO >C28-C36	1700		10.0	mg/kg	1	9082707	CK	27-Aug-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			147 %	41-142		9082707	CK	27-Aug-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			394 %	37.6-147		9082707	CK	27-Aug-19	8015B	
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Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

L 2 - 1'**H902929-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1330		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
DRO >C10-C28*	25.8		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
<i>Surrogate: 1-Chlorooctane</i>			83.9 %		41-142	9090401	MS	04-Sep-19	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			87.4 %		37.6-147	9090401	MS	04-Sep-19	8015B	

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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 44 H Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:14
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**L 3 - SURFACE
H902929-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.500		0.500	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Toluene*	0.606		0.500	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	1.19		0.500	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	5.36		1.50	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Total BTEX	7.16		3.00	mg/kg	500	9082803	BF	28-Aug-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.3 %	73.3-129		9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	108		10.0	mg/kg	1	9082806	CK	29-Aug-19	8015B	
DRO >C10-C28*	8580		10.0	mg/kg	1	9082806	CK	29-Aug-19	8015B	QM-07
EXT DRO >C28-C36	1470		10.0	mg/kg	1	9082806	CK	29-Aug-19	8015B	

Surrogate: 1-Chlorooctane			92.2 %	41-142		9082806	CK	29-Aug-19	8015B	
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Surrogate: 1-Chlorooctadecane			295 %	37.6-147		9082806	CK	29-Aug-19	8015B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 44 H Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:14
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L 3 - 1'

H902929-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
DRO >C10-C28*	257		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
EXT DRO >C28-C36	53.9		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	

Surrogate: 1-Chlorooctane			76.0 %	41-142		9090401	MS	04-Sep-19	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	37.6-147		9090401	MS	04-Sep-19	8015B	

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Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

L 4 - SURFACE
H902929-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1790		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.500		0.500	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Toluene*	5.92		0.500	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	9.12		0.500	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	41.2		1.50	mg/kg	500	9082803	BF	28-Aug-19	8021B	
Total BTEX	56.2		3.00	mg/kg	500	9082803	BF	28-Aug-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	73.3-129		9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	757		50.0	mg/kg	5	9082806	CK	29-Aug-19	8015B	
DRO >C10-C28*	14000		50.0	mg/kg	5	9082806	CK	29-Aug-19	8015B	
EXT DRO >C28-C36	2660		50.0	mg/kg	5	9082806	CK	29-Aug-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			250 %	41-142		9082806	CK	29-Aug-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			436 %	37.6-147		9082806	CK	29-Aug-19	8015B	
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Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

L 4 - 1'**H902929-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	9082815	CK	28-Aug-19	4500-CI-B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	123		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
DRO >C10-C28*	3610		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
EXT DRO >C28-C36	731		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			115 %	41-142		9090401	MS	04-Sep-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			186 %	37.6-147		9090401	MS	04-Sep-19	8015B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 44 H Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:14
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9082815 - 1:4 DI Water										
Blank (9082815-BLK1)										
Prepared & Analyzed: 28-Aug-19										
Chloride	ND	16.0	mg/kg							
LCS (9082815-BS1)										
Prepared & Analyzed: 28-Aug-19										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (9082815-BSD1)										
Prepared & Analyzed: 28-Aug-19										
Chloride	400	16.0	mg/kg	400		100	80-120	7.69	20	

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Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9082803 - Volatiles**Blank (9082803-BLK1)**

Prepared & Analyzed: 28-Aug-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0887		mg/kg	0.100		88.7	73.3-129			

LCS (9082803-BS1)

Prepared & Analyzed: 28-Aug-19

Benzene	1.77	0.050	mg/kg	2.00		88.6	72.2-131			
Toluene	1.95	0.050	mg/kg	2.00		97.5	71.7-126			
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	68.9-126			
Total Xylenes	6.27	0.150	mg/kg	6.00		104	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0889		mg/kg	0.100		88.9	73.3-129			

LCS Dup (9082803-BSD1)

Prepared & Analyzed: 28-Aug-19

Benzene	1.68	0.050	mg/kg	2.00		83.9	72.2-131	5.48	6.91	
Toluene	1.86	0.050	mg/kg	2.00		92.8	71.7-126	4.88	7.12	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	68.9-126	4.00	7.88	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	71.4-125	3.52	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0873		mg/kg	0.100		87.3	73.3-129			

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Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9082707 - General Prep - Organics**Blank (9082707-BLK1)**

Prepared & Analyzed: 27-Aug-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	41-142			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	37.6-147			

LCS (9082707-BS1)

Prepared & Analyzed: 27-Aug-19

GRO C6-C10	218	10.0	mg/kg	200		109	76.5-133			
DRO >C10-C28	229	10.0	mg/kg	200		114	72.9-138			
Total TPH C6-C28	447	10.0	mg/kg	400		112	78-132			
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	57.2		mg/kg	50.0		114	37.6-147			

LCS Dup (9082707-BSD1)

Prepared & Analyzed: 27-Aug-19

GRO C6-C10	206	10.0	mg/kg	200		103	76.5-133	5.82	20.6	
DRO >C10-C28	213	10.0	mg/kg	200		106	72.9-138	7.12	20.6	
Total TPH C6-C28	419	10.0	mg/kg	400		105	78-132	6.48	18	
Surrogate: 1-Chlorooctane	50.9		mg/kg	50.0		102	41-142			
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	37.6-147			

Batch 9082806 - General Prep - Organics**Blank (9082806-BLK1)**

Prepared: 28-Aug-19 Analyzed: 29-Aug-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.8		mg/kg	50.0		85.6	41-142			
Surrogate: 1-Chlorooctadecane	45.9		mg/kg	50.0		91.8	37.6-147			

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MMX
2737 PECOS HWY
CARLSBAD NM, 88220

Project: 44 H
Project Number: NONE GIVEN
Project Manager: MELODIE SANJARI
Fax To: (575) 236-6201

Reported:
05-Sep-19 09:14

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9082806 - General Prep - Organics**LCS (9082806-BS1)**

Prepared: 28-Aug-19 Analyzed: 29-Aug-19

GRO C6-C10	195	10.0	mg/kg	200		97.6	76.5-133			
DRO >C10-C28	199	10.0	mg/kg	200		99.3	72.9-138			
Total TPH C6-C28	394	10.0	mg/kg	400		98.5	78-132			
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.8	41-142			
Surrogate: 1-Chlorooctadecane	45.0		mg/kg	50.0		90.0	37.6-147			

LCS Dup (9082806-BSD1)

Prepared: 28-Aug-19 Analyzed: 29-Aug-19

GRO C6-C10	197	10.0	mg/kg	200		98.3	76.5-133	0.686	20.6	
DRO >C10-C28	190	10.0	mg/kg	200		95.1	72.9-138	4.30	20.6	
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	78-132	1.80	18	
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	41-142			
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.5	37.6-147			

Batch 9090401 - General Prep - Organics**Blank (9090401-BLK1)**

Prepared & Analyzed: 04-Sep-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.4		mg/kg	50.0		82.8	41-142			
Surrogate: 1-Chlorooctadecane	43.5		mg/kg	50.0		87.0	37.6-147			

LCS (9090401-BS1)

Prepared & Analyzed: 04-Sep-19

GRO C6-C10	203	10.0	mg/kg	200		101	76.5-133			
DRO >C10-C28	211	10.0	mg/kg	200		105	72.9-138			
Total TPH C6-C28	414	10.0	mg/kg	400		103	78-132			
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.8	41-142			
Surrogate: 1-Chlorooctadecane	45.0		mg/kg	50.0		90.0	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 44 H Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:14
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9090401 - General Prep - Organics

LCS Dup (9090401-BSD1)

Prepared & Analyzed: 04-Sep-19

GRO C6-C10	199	10.0	mg/kg	200		99.3	76.5-133	2.19	20.6	
DRO >C10-C28	204	10.0	mg/kg	200		102	72.9-138	3.43	20.6	
Total TPH C6-C28	402	10.0	mg/kg	400		101	78-132	2.82	18	
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.5	41-142			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.0	37.6-147			

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

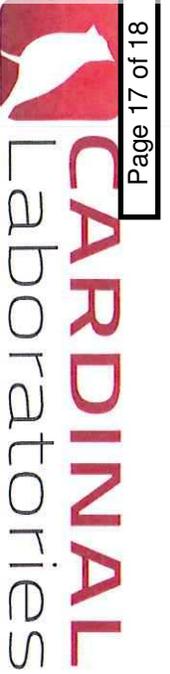
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: MMX		BILL TO		P.O. #:		ANALYSIS REQUEST	
Project Manager: Melodre Sanjari		Company: MMX		Attn: Lupe			
Address:		State:		Zip:			
City:		Address:		City:			
Phone #:		Fax #:		Project Owner:			
Project #:		Project Name: 44H		State:		Zip:	
Project Location:		Sampler Name: MPS		Phone #:			
FOR LAB USE ONLY		Matrix		PRESERV.		SAMPLING	
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		DATE	
1 L1-Surf		✓		✓		8/21 6:00	
2 L1-O.S'		✓		✓		6:05	
3 L1-1'		✓		✓		6:10	
4 L2-Surf		✓		✓		7:00	
5 L2-O.S'		✓		✓		7:05	
6 L2-1'		✓		✓		7:10	
7 L3-Surf		✓		✓		8:00	
8 L2-O.S'		✓		✓		8:05	
9 L3-1'		✓		✓		8:10	
10 L2-Surf		✓		✓		9:00	

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Relinquished By: *[Signature]* Date: **8-26-19** Time: **11:15** Received By: *[Signature]*

Delivered By: (Circle One) **0.92** #**497** Sample Condition: Cool Intact Yes No Yes No **70** CHECKED BY: (Initials)

Sampler - UPS - Bus - Other: **Collected 1.32**

REMARKS: **1/2 please email results to melodre.sanjari@cardinalml.com**



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: MMX
 Project Manager: Melodre Sanjari
 Address: _____
 City: _____ State: _____ Zip: _____
 P.O. #: _____
 Company: MMX
 Attn: WPE
 Address: _____
 City: _____
 Project #: _____ Project Owner: _____
 State: _____ Zip: _____
 Project Name: 444
 State: _____ Zip: _____
 Project Location: _____
 Phone #: _____
 Sampler Name: MRS
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
<u>H902989</u>	<u>LA-0.51</u>					<input checked="" type="checkbox"/>				<u>8/21</u>	<u>9:05</u>	<u>BTEX</u>	
<u>11</u>	<u>LA-11</u>					<input checked="" type="checkbox"/>				<u>9:10</u>	<u>9:10</u>	<u>TPH</u>	
<u>12</u>	<u>LA-11</u>					<input checked="" type="checkbox"/>						<u>CI</u>	
												<u>TPH</u>	<u>Added 9/4/09</u>
													<u>Push</u>

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Relinquished By: _____ Date: _____ Time: _____
 Received By: Jamara Walker Date: 8-26-19 Time: 11:15
 Delivered By: (Circle One) 0.92 Sample Condition: #97 Checked By: _____
 Sampler - UPS - Bus - Other: Completed 1.32 Cool Intact: Yes No Yes No No 70.
 REMARKS: Please email results to 2/2 melodre.sanjari@sowdermiller.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 11, 2019

MELODIE SANJARI

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: 44 H

Enclosed are the results of analyses for samples received by the laboratory on 09/09/19 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	09/09/2019	Sampling Date:	09/06/2019
Reported:	09/11/2019	Sampling Type:	Soil
Project Name:	44 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MMX		

Sample ID: L 4 - 2' (H903097-01)

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	09/10/2019	ND	207	103	200	2.73	
DRO >C10-C28*	123	10.0	09/10/2019	ND	215	107	200	2.83	
EXT DRO >C28-C36	25.1	10.0	09/10/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	89.9 %	41-142							
Surrogate: 1-Chlorooctadecane	98.5 %	37.6-147							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- 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

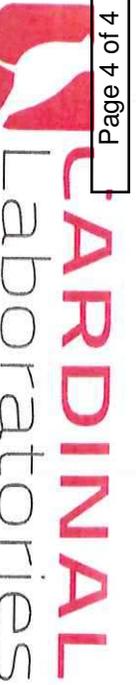
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:

BILL TO

ANALYSIS REQUEST

Project Manager: Melodie Sanjari

P.O. #:

Address:

Company: MMX

City: State: Zip:

Attn: Lupe Carasco

Phone #: Fax #: Project Owner:

Address:

Project #: Project Owner:

City:

Project Name: 44H

State: Zip:

Project Location: 4

Phone #:

Sampler Name:

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

A903087

LA-21

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

9/6

10:00

HLL

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Relinquished By:

Date: 9/9

Received By:

Relinquished By:

Date: 10:00

Received By:

Time:

Time:

Delivered By: (Circle One) 5.32

497

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other: Consistent 5.32

Sample Condition

Cool Intact
 Yes No

Yes No

Yes No

Yes No

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

Send results to
 melodie.sanjari@southernmiller.com