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**Remediation Closure Report:**

Mariner Fee 23 28 19 WA #001H  
API # 30-015-44849  
Talon Project # 702248.044.01

**Prepared For:**

Marathon Oil Permian LLC  
4111 S. Tidwell Rd.  
Carlsbad, NM 88220

**Prepared By:**

TALON/LPE  
408 W. Texas Avenue  
Artesia, NM 88210

**January 13, 2019**

Mr. Mike Bratcher  
**NMOCD District 1**  
1625 N. French Drive  
Hobbs, NM 88240

Subject: **Soil Assessment and Remediation Closure Report**  
Mariner Fee 23 28 19 WA #001H  
Eddy County, New Mexico  
API # 30-015-44849

Dear Mr. Bratcher:

Marathon Oil Permian LLC, (Marathon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our site assessment and proposed remediation activities are contained herein.

### **Site Information**

The Mariner Fee 23 28 19 WA #001H lies within Unit Letter O, Section 18, Township 23S, and Range 28E in Eddy County, New Mexico. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum land-Cottonwood Complex with a 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Upper Pleistocene in age and is comprised of alluvium deposits. Drainage courses in this area are typically well drained.

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is approximately 78-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

### Site Characterization

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

**Approximate Depth to Groundwater 78 Feet/BGS**

- Yes  No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- Yes  No Within 200 feet of any lakebed, sinkhole or playa lake
- Yes  No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- Yes  No Within 500 feet of a spring or private, domestic fresh water well used by less than five households for domestic or stock watering purposes
- Yes  No Within 1000 feet of any fresh water well or spring
- Yes  No Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- Yes  No Within 300 feet of a wetland
- Yes  No Within the area overlying a subsurface mine
- Yes  No Within an unstable area
- Yes  No Within a 100-year floodplain

This release did not occur within any of these areas and the depth to groundwater is between 50-100 feet BGS. Therefore, the remediation closure criteria for this site will be as follows:

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
50 feet-100 feet	Chloride	EPA 300.0 or SM4500 Cl B	10000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Descriptions

On August 31, 2019, a wash out was discovered at a “45” on the main water line from the location’s separator. This resulted in an approximate release of 150 bbls of produced water (The Initial C-141 is attached in [Appendix III](#)). The New Mexico Oil Conservation Division (NMOCD) assigned this incident a remediation permit number of **2RP-5640**. A vacuum truck was dispatched and recovered 130 bbls of fluid. The disposal manifests are appended ([Appendix IV](#)).

On December 13, 2019, a second release occurred at the Mariner Fee 23 28 19 WA #001H. According to the C-141, the release was due to a union failure thought to be corrosion. This resulted in the release of approximately 26.5 bbls of crude oil into the lined containment of the tank battery with some overspray onto the pad. The NMOCD was notified via email on this same date. A vacuum truck was immediately dispatched and utilized to recover approximately 25 bbls of fluid. No fluids traversed outside the pad area. The NMOCD assigned this incident **T52M9-191216-C-1410**. ([Appendix III](#)).

### Site Assessment

On November 18, 2019, Talon mobilized personnel to begin the site assessment and soil sampling activities for the submittal of a work plan. Utilizing mechanized Geoprobe soil boring techniques, soil samples were retrieved from fourteen designated sample positions as indicated on the site plan ([Appendix I](#)). All soil samples were properly packaged, preserved, and transported to Hall Environmental Laboratories for analyses of the following constituencies: Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (8015M), Volatile Organics (BTEX Method 8021B), and Benzene (EPA Method 8021B). Results from the sampling event are presented in the following data table. A complete laboratory report can be found in ([Appendix VI](#)).

NMOCD Table 1 Closure Criteria 19.15.29 NMAC		50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg	Chlorides <10,000 ppm	
								Lab Results	Field Titration
B-1	2	NT	NT	NT	NT	NT	NT	2400	
	4	NT	NT	NT	NT	NT	NT	63	
	6	ND	ND	ND	ND	ND	NT	300	
B-2	0-1	NT	NT	NT	NT	NT	NT	NT	462
	2	ND	ND	ND	ND	ND	NT	550	
	3	NT	NT	NT	NT	NT	NT	280	317
B-3	1	NT	NT	NT	NT	NT	NT	NT	462
B-4	0-1	ND	ND	ND	ND	ND	NT	1200	
	3	NT	NT	NT	NT	NT	NT	230	
	6	NT	NT	NT	NT	NT	NT	190	
B-5	0-1	ND	ND	ND	33	65	NT	1200	
	2-3	NT	NT	NT	NT	NT	NT	1000	
	4	NT	NT	NT	NT	NT	NT	590	
B-6	1-2	ND	ND	ND	ND	ND	NT	880	725
	3	NT	NT	NT	NT	NT	NT	640	
B-7	0-1	ND	ND	ND	ND	ND	NT	1800	
	2	NT	NT	NT	NT	NT	NT	1300	
	3	NT	NT	NT	NT	NT	NT	300	338
B-8	0-1	ND	ND	ND	ND	ND	NT	160	310
B-9	0-1	ND	ND	ND	81	70	NT	2300	
B-10	0-1	ND	ND	ND	59	91	NT	420	
B-11	0-1	ND	ND	ND	11	ND	NT	360	
B-12	0-1	ND	ND	ND	ND	ND	NT	1400	
B-13	0-1	NT	NT	NT	NT	NT	NT	2500	
	2	NT	NT	NT	NT	NT	NT	2400	
	3	ND	ND	ND	ND	ND	NT	340	
B-14	0-1	NT	NT	NT	NT	NT	NT	4300	
	2	NT	NT	NT	NT	NT	NT	4700	
	4	ND	ND	ND	ND	ND	NT	320	
	7	NT	NT	NT	NT	NT	NT	NT	214

## Initial Site Assessment Results

NT= Not Tested

ND= Not Detected

### Remedial Actions

On December 18, 2019 Talon personnel and equipment were mobilized to the Mariner Battery in order to commence remediation activities. Due to the number of underground utility lines present a hydrovac was utilized to identify the location and depths (1.5' to 3' deep) of the gas and electrical lines. Subsequently, the impacted area on location (2RP-5640) was excavated to depths of approximately 0.5'-1.0' feet bgs.

Based on the analytical data, an area measuring approximately 180' x 280' was excavated and is shown on the excavation site map ([Appendix I](#)).

On December 19, 2019, confirmation samples were collected from the bottom and side walls of the excavation at the locations shown on the attached excavation map. The soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody. The soil was analyzed for Total Chlorides (EPA Method 300.0), the analyte of concern. The results from this sampling event are presented in the following data table. The complete laboratory report is referenced in ([Appendix VI](#)).

Confirmation Samples Collection Date 12/19/2019			
Sample ID	Depth	Total Chlorides	Field Titration Data
S1	6"	1700	
S2	6"	2300	
S3	6"	94	
S4	6"	1000	
S5	6"	4200	
S6	6'	5000	
S7	6"	2200	
S8	6"	4800	
S9	6"	4700	
S10	6"	NT	470
S11	6"	NT	520
S12	6"	NT	1243
S13	6"	1700	
S14	6"	2000	
S15	6"	8800	
S16	6"	2300	
S17	6"	2300	
S18	6"	3000	
S19	6"	1400	
S20	6"	1900	
S21	6"	4900	
S22	6"	8800	
S23*	6"	10000	
S24	6"	7000	
S25	6"	3900	
S26	6"	2600	
S27	6"	1900	
S28	6"	770	
S29	6"	180	
S30	6"	2900	
S31	6"	860	
S32	6"	1700	
S33	6"	1400	

\*Soil stockpile location. See site assessment results sample location B-14.

NT=Not Tested

On December 20, 2019, the second release on this location was addressed (**T52M9-191216-C-1410**). Overspray from this incident only impacted the location immediately north of the battery between the generators at sample location B-3 (see Site Plan). The generators were temporarily relocated and the area was hydro-excavated and hand-excavated to a depth of approximately 2.5 to 3.0-feet deep as practicable as possible due to the presence of flow lines running between the separators and the gas wells on location, and due to safety concerns for onsite personnel. This area was sampled (sample location B-3A), prior to commencement of remediation activities in this area. Analytical data obtained from this sample event is presented in the following data table and the complete lab report is attached ([Appendix VI](#)).

Second Release Collection Date 12/18/2019								
Sample Position	Depth	Benzene	BTEX	Chloride	GRO	DRO	MRO	Total TPH
B-3A	1'	ND	ND	5030	ND	ND	ND	ND
B-3A	2'	ND	ND	4040	ND	ND	ND	ND
B-3A	3'	NT	NT	3490	NT	NT	NT	NT
B-3A	4'	NT	NT	1110	NT	NT	NT	NT

ND = Not Detected

NT = Not Tested

### Remediation Summary

- Based upon the results of our initial site assessment, the impacted areas on location were excavated to a depth of approximately 0.5 to 1.0-feet deep in order to remove the visual impacts from the release (2RP-5640). This area was initially scraped by others as a component of initial remedial actions carried out for this release.
- Confirmation samples were collected from the bottom and sidewalls of the excavation.
- On December 13, 2019, a second release (crude oil) occurred from a union failure within the lined battery. Overspray from this incident impacted approximately 25' x 25' of the location where shown on the site plan. This area was sampled and remediated to a depth of 2.5 to 3.0-feet deep utilizing hand tools and a hydro-excavator. Based on the analytical results, the hydrocarbon impacts appear to have been contained within the upper foot of the impacted area. This area was backfilled by hand with new caliche.
- The location excavation was backfilled with new caliche and compacted with a single drum vibratory roller. A layer of base coarse was added and the work area was compacted again.
- The impacted soil from this location (approximately 486 yards) was transported to R360, a NMOCD approved solid waste disposal facility.

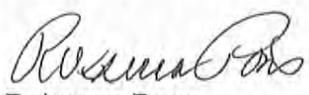
### Closure

On behalf of Marathon Oil Permian LLC, we respectfully request that no further actions be required and that closure with regard to these incidents be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

  
Rebecca Pons  
Project Manager

  
David J. Adkins  
District Manager

- Attachments:
- Appendix I Site Maps
  - Appendix II Soil Survey, Groundwater Data & FEMA Flood Map
  - Appendix III Initial C-141
  - Appendix IV Disposal Manifests
  - Appendix V Photo Documentation
  - Appendix VI Laboratory Data



# APPENDIX I

# SITE MAPS

# Mariner Fee 23 28 19 WXY 6H

Marathon Oil Permian LLC  
Eddy County, NM  
API # 30-015-44734  
Site Map

Legend  
⊙ Soil Sample



# Marathon Mariner Tank Battery

Remediation Site Map

**Legend** [Page 11 of 149](#)

- 6" Excavation
- Lines
- Sample Position
- Test Trench

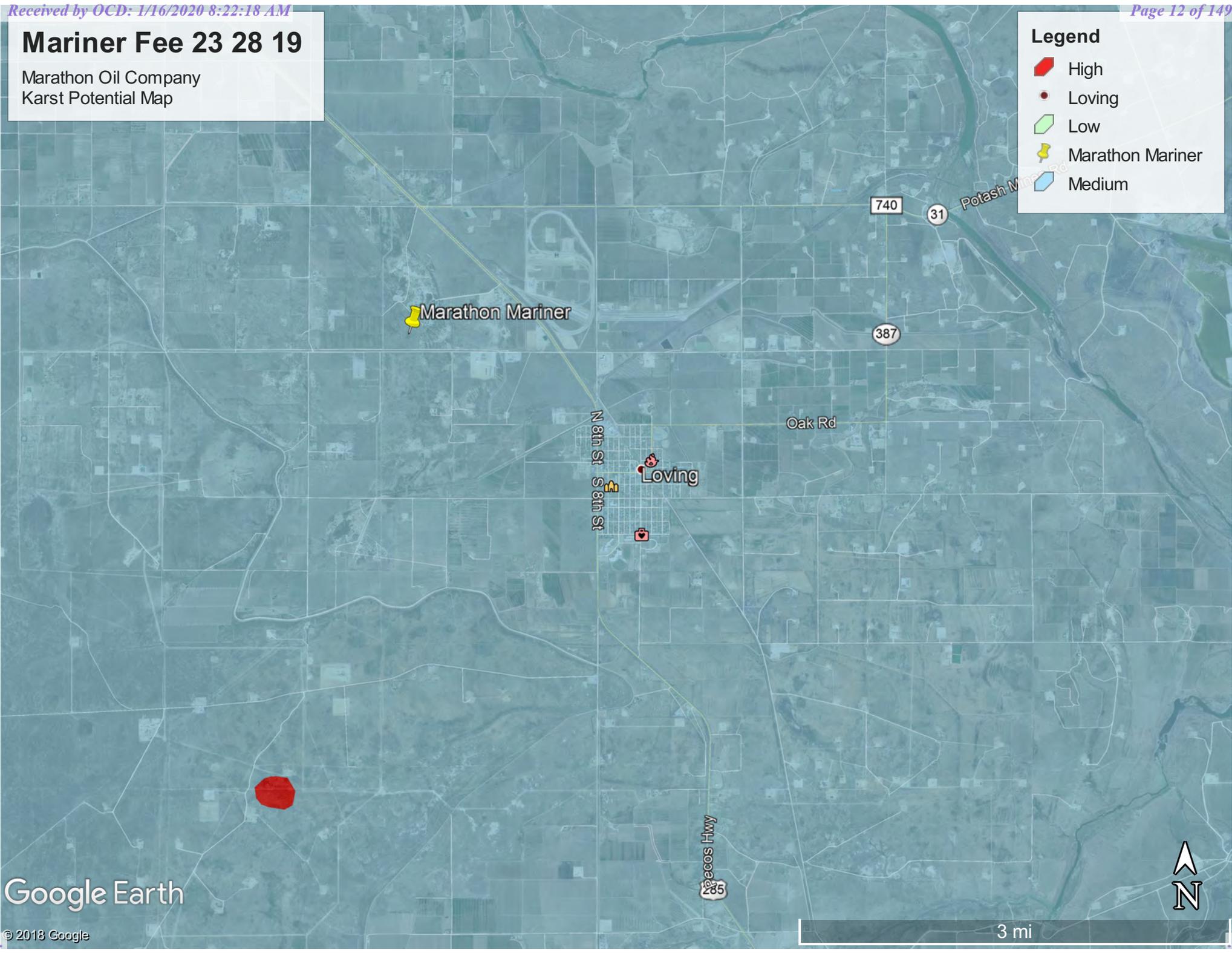


# Mariner Fee 23 28 19

Marathon Oil Company  
Karst Potential Map

**Legend**

-  High
-  Loving
-  Low
-  Marathon Mariner
-  Medium

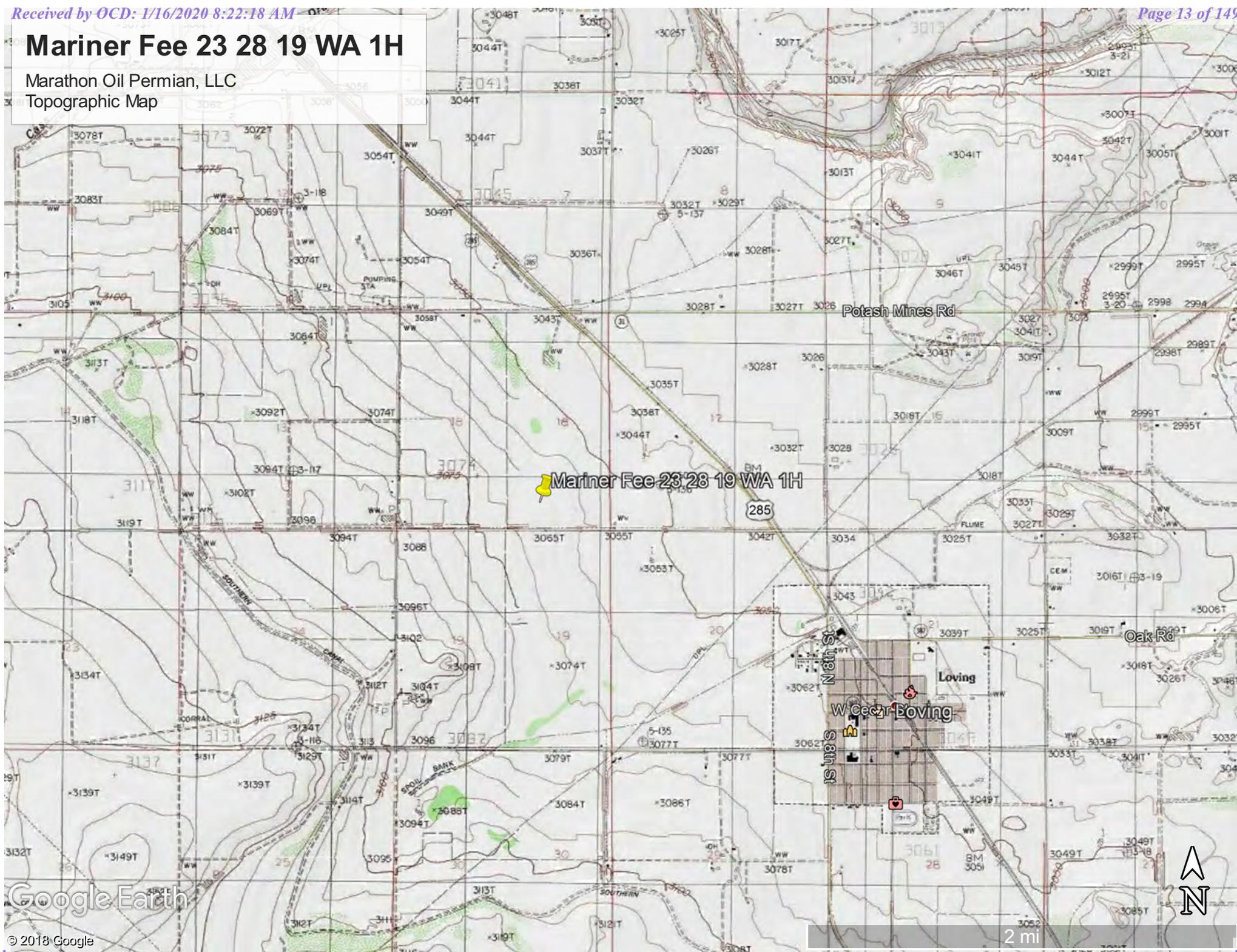


Google Earth

3 mi

# Mariner Fee 23 28 19 WA 1H

Marathon Oil Permian, LLC  
Topographic Map





## APPENDIX II

### SOIL SURVEY

### GROUNDWATER DATA

### FEMA FLOOD MAP

## Eddy Area, New Mexico

### Gs—Gypsum land-Cottonwood complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w4j  
*Elevation:* 1,250 to 5,000 feet  
*Mean annual precipitation:* 10 to 25 inches  
*Mean annual air temperature:* 57 to 66 degrees F  
*Frost-free period:* 190 to 225 days  
*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Gypsum land:* 60 percent  
*Cottonwood and similar soils:* 30 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Gypsum Land

##### Setting

*Landform:* Plains, ridges, hills  
*Landform position (two-dimensional):* Backslope, footslope, shoulder, toeslope  
*Landform position (three-dimensional):* Side slope, crest, nose 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

#### Description of Cottonwood

##### Setting

*Landform:* Ridges, hills  
*Landform position (two-dimensional):* Backslope, footslope, shoulder, toeslope  
*Landform position (three-dimensional):* Side slope, crest, nose slope, head slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

##### Typical profile

*H1 - 0 to 9 inches:* loam  
*H2 - 9 to 60 inches:* bedrock

Map Unit Description: Gypsum land-Cottonwood complex, 0 to 3 percent slopes---Eddy Area,  
New Mexico

**Properties and qualities**

- Slope:* 0 to 3 percent
- Depth to restrictive feature:* 3 to 12 inches to paralithic bedrock
- Natural drainage class:* Well drained
- Runoff class:* Low
- Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.20 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:* 15 percent
- Gypsum, maximum in profile:* 5 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):* 6s
- Hydrologic Soil Group:* D
- Ecological site:* Gyp Upland (R042XC006NM)
- Hydric soil rating:* No

**Minor Components**

**Cottonwood**

- Percent of map unit:* 5 percent
- Ecological site:* Salty Bottomland (R042XC033NM)
- Hydric soil rating:* No

**Rock outcrop**

- Percent of map unit:* 5 percent
- Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 15, Sep 15, 2019



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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 04289 POD1</a>	C	ED		1	1	2	19	23S	28E		582387	3573717	307	91	78	13
<a href="#">C 04225 POD1</a>	C	ED		2	2	3	18	23S	28E		582167	3574424	526	120	71	49
<a href="#">C 00310</a>	CUB	ED		3	3	3	17	23S	28E		583136	3573915*	653	250	75	175
<a href="#">C 03922 POD1</a>	C	ED		3	2	3	18	23S	28E		581844	3574230	682	138	75	63
<a href="#">C 02180</a>	C	ED				3	18	23S	28E		581831	3574198*	685	140	80	60
<a href="#">C 03779 POD1</a>	C	ED		2	3	3	18	23S	28E		581707	3574103	788	110	70	40
<a href="#">C 04066 POD1</a>	C	ED		2	4	1	18	23S	28E		582038	3574823	931	155	80	75
<a href="#">C 02697</a>	C	ED			1	3	18	23S	28E		581629	3574401*	946	220	42	178
<a href="#">C 03082</a>	C	ED		1	3	3	18	23S	28E		581529	3574096*	964	220	217	3
<a href="#">C 00851</a>	C	ED				3	17	23S	28E		583438	3574217*	971	200	50	150
<a href="#">C 01992</a>	C	ED		3	4	1	19	23S	28E		581929	3573094*	1071	232	45	187
<a href="#">C 00333</a>	CUB	ED		3	1	2	18	23S	28E		582325	3575118*	1122	147		
<a href="#">C 00312</a>	CUB	ED		3	3	1	20	23S	28E		583094	3573015	1162	230	70	160
<a href="#">C 03753 POD1</a>	C	ED		3	3	1	18	23S	28E		581515	3574658	1171	210	60	150
<a href="#">C 04315 POD1</a>	C	ED		1	3	1	18	23S	28E		581620	3574847	1209			
<a href="#">C 03472 POD1</a>	CUB	ED		4	4	4	07	23S	28E		582894	3575479	1526	140	40	100
<a href="#">C 03941 POD2</a>	CUB	ED		3	4	2	13	23S	27E		581152	3574745	1526	32		
<a href="#">C 03941 POD1</a>	CUB	ED		3	4	2	13	23S	27E		581110	3574757	1569	37	19	18
<a href="#">C 02846 S</a>	CUB	ED		4	4	4	07	23S	28E		582926	3575527*	1580	150	40	110
<a href="#">C 04313 POD1</a>	C	ED		4	3	3	07	23S	28E		581677	3575500	1699	99	86	13
<a href="#">C 01477</a>	CUB	ED		1	3	3	19	23S	28E		581532	3572484*	1799	127	10	117
<a href="#">C 04203 POD1</a>	C	ED		2	4	3	07	23S	28E		582148	3575792	1817	200	160	40
<a href="#">C 03888 POD3</a>	CUB	ED		4	4	4	12	23S	27E		581348	3575495	1875	35		
<a href="#">C 03819 POD4</a>	CUB	ED		4	4	4	12	23S	27E		581306	3575464	1876	35		
<a href="#">C 03888 POD2</a>	CUB	ED		4	4	4	12	23S	27E		581400	3575557	1894	30		
<a href="#">C 03819 POD5</a>	CUB	ED		4	4	4	12	23S	27E		581256	3575451	1898	36		
<a href="#">C 03819 POD1</a>	CUB	ED		4	4	4	12	23S	27E		581270	3575463	1899	36		
<a href="#">C 03819 POD2</a>	CUB	ED		4	4	4	12	23S	27E		581270	3575463	1899	34		
<a href="#">C 03888 POD5</a>	CUB	ED		4	4	4	12	23S	27E		581295	3575494	1907	35		
<a href="#">C 03888 POD1</a>	CUB	ED		4	4	4	12	23S	27E		581295	3575525	1931	35		
<a href="#">C 03819 POD3</a>	CUB	ED		4	4	4	12	23S	27E		581256	3575500	1936	35		
<a href="#">C 03888 POD4</a>	CUB	ED		3	4	4	12	23S	27E		581139	3575462	1985	35		
<a href="#">C 03053</a>	C	ED		3	4	4	12	23S	27E		581122	3575505*	2027	94	14	80

<a href="#">C 03457</a>	C	ED	3	4	4	12	23S	27E	581081	3575530	2074	200			
<a href="#">C 00911 POD2</a>	C	ED	1	2	4	20	23S	28E	584359	3572911*	2167	69	34	35	
<a href="#">C 00911 POD3</a>	C	ED	1	2	4	20	23S	28E	584359	3572911*	2167	218	60	158	
<a href="#">C 04307 POD1</a>	C	ED	2	1	3	07	23S	28E	581737	3576138	2259	92	78	14	
<a href="#">C 00520</a>	C	ED	1	1	3	16	23S	28E	584754	3574538*	2325	115	33	82	
<a href="#">C 00521</a>	C	ED	1	1	3	16	23S	28E	584754	3574538*	2325	218	33	185	
<a href="#">C 02004</a>	C	ED		3	4	24	23S	27E	580825	3572378*	2329	232	190	42	
<a href="#">C 00010</a>	CUB	ED	1	2	2	25	23S	27E	581129	3572075*	2363	250	103	147	
<a href="#">C 00010 CLW191759</a>	O	CUB	ED	1	2	2	25	23S	27E	581129	3572075*	2363	259		
<a href="#">C 00010 ENLGD</a>	CUB	ED	1	2	2	25	23S	27E	581129	3572075*	2363	259			
<a href="#">C 02845</a>	CUB	ED	3	4	1	07	23S	28E	581920	3576327*	2388	220			
<a href="#">C 00504</a>	CUB	ED	3	1	4	08	23S	28E	583939	3575949*	2422	230	40	190	
<a href="#">C 00544</a>	C	ED	3	3	1	21	23S	28E	584762	3573120*	2439	27			
<a href="#">C 02848</a>	CUB	ED	3	3	1	21	23S	28E	584762	3573120*	2439	130			
<a href="#">C 04187 POD1</a>	C	ED	3	3	1	07	23S	28E	581519	3576251	2444	88	48	40	
<a href="#">C 00368 CLW197578</a>	O	CUB	ED		3	3	13	23S	27E	580017	3573978*	2472	250	40	210
<a href="#">C 00368 S</a>	CUB	ED		3	3	13	23S	27E	580017	3573978*	2472	250	120	130	
<a href="#">C 00276 S</a>	CUB	ED		1	1	24	23S	27E	580017	3573576*	2509	248	130	118	
<a href="#">C 00276</a>	CUB	ED	1	1	1	24	23S	27E	579945	3573670	2566	232	70	162	
<a href="#">C 00368</a>	CUB	ED	3	3	3	13	23S	27E	579916	3573877*	2576	250	40	210	
<a href="#">C 03542 POD1</a>	CUB	ED	2	4	4	20	23S	28E	584615	3572530	2589	22	16	6	
<a href="#">C 01661</a>	C	ED		3	1	13	23S	27E	580014	3574783*	2593	238	195	43	
<a href="#">C 03542 POD2</a>	CUB	ED	2	4	4	20	23S	28E	584620	3572497	2611	30			
<a href="#">C 00309</a>	CUB	ED	1	3	1	08	23S	28E	583129	3576544*	2615	165	16	149	
<a href="#">C 00577</a>	C	ED	3	1	3	21	23S	28E	584764	3572714*	2616	35	10	25	
<a href="#">C 00578</a>	C	ED	3	1	3	21	23S	28E	584764	3572714*	2616	28	18	10	
<a href="#">C 00643</a>	C	ED	3	1	3	21	23S	28E	584764	3572714*	2616	76	10	66	
<a href="#">C 00063</a>	CUB	ED	1	3	1	07	23S	28E	581526	3576521*	2691	130			
<a href="#">C 00650</a>	C	ED	1	3	3	21	23S	28E	584767	3572508*	2727	32	12	20	
<a href="#">C 01779</a>	C	ED	3	1	1	08	23S	28E	583128	3576749*	2814	178	50	128	
<a href="#">C 00010 CLW191724</a>	O	CUB	ED	2	3	2	25	23S	27E	580926	3571666*	2815	259		
<a href="#">C 02846</a>	CUB	ED	4	1	1	07	23S	28E	581726	3576726*	2823	150	50	100	
<a href="#">C 03762 POD1</a>	CUB	ED	4	4	2	17	23S	28E	585314	3574066	2825	40	31	9	
<a href="#">C 00539</a>	C	ED	3	3	3	21	23S	28E	584767	3572308*	2841	28	6	22	
<a href="#">C 03762 POD2</a>	CUB	ED	4	4	2	17	23S	28E	584893	3575598	2882	40	30	10	
<a href="#">C 00241</a>	CUB	ED	3	3	2	12	23S	27E	580715	3576307*	2904	160			
<a href="#">C 04250 POD1</a>	C	ED	1	1	1	07	23S	28E	581613	3576868	2991	140	120	20	
<a href="#">C 03557 POD1</a>	C	ED	3	3	3	12	23S	27E	579895	3575503	2994	250			

Average Depth to Water: 63 feet  
 Minimum Depth: 6 feet  
 Maximum Depth: 217 feet

**Record Count:**71

**UTMAD83 Radius Search (in meters):**

**Easting (X):** 582489.393

**Northing (Y):** 3574007.714

**Radius:** 3000

\*UTM location was derived from PLSS - see Help

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

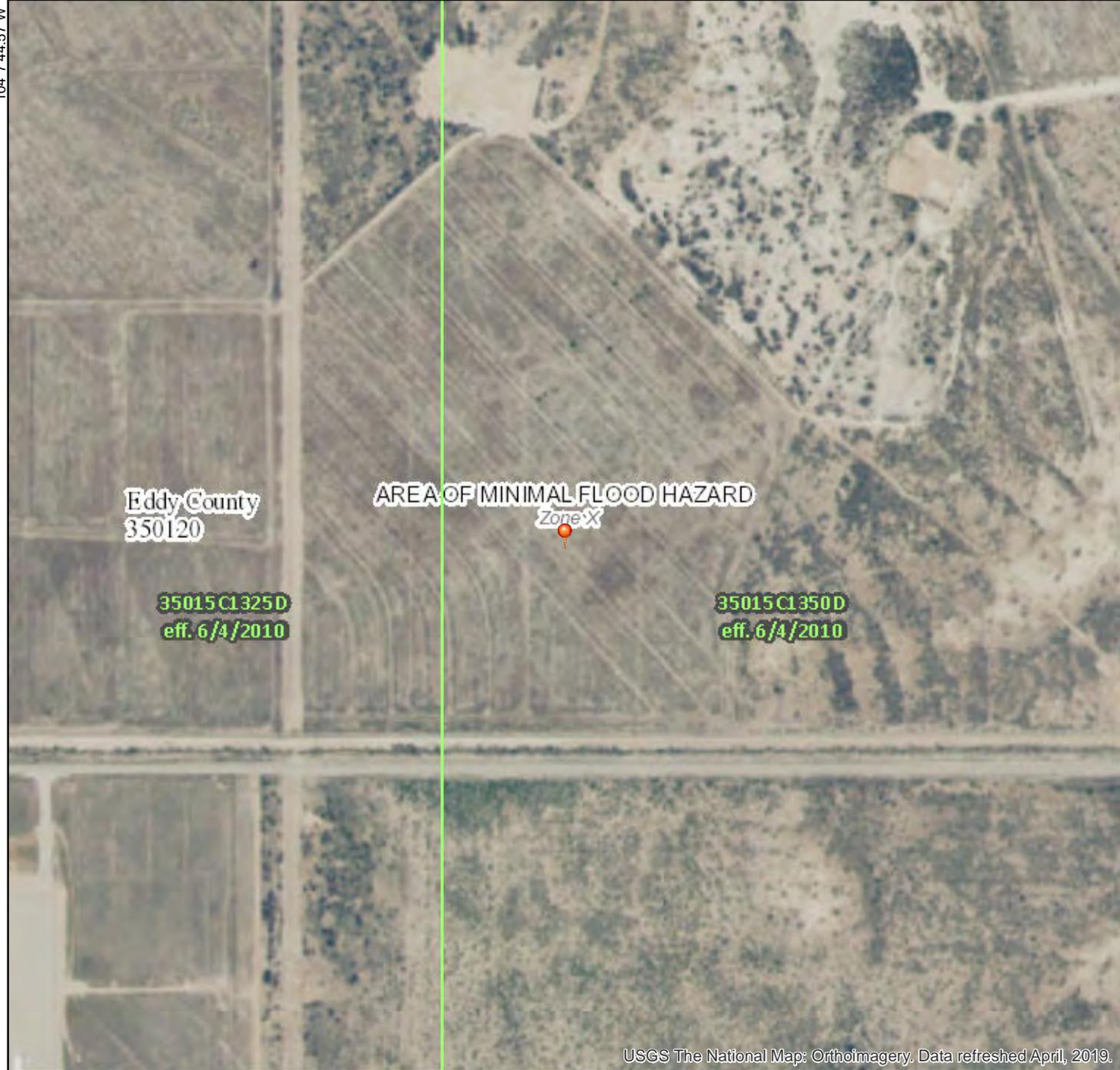
12/2/19 2:09 PM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

# National Flood Hazard Layer FIRMette



32°18'14.62"N



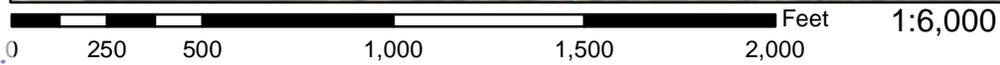
## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- |                                    |  |  |
|------------------------------------|--|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b>  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                                    |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                                    |  | Regulatory Floodway  |
| <b>OTHER AREAS OF FLOOD HAZARD</b> |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|                                    |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                                    |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                                    |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| <b>OTHER AREAS</b>                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                                    |  | Effective LOMRs  |
| <b>GENERAL STRUCTURES</b>          |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|                                    |  | Channel, Culvert, or Storm Sewer   |
|                                    |  | Levee, Dike, or Floodwall  |
| <b>OTHER FEATURES</b>              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                                    |  | 17.5 Coastal Transect  |
|                                    |  | Base Flood Elevation Line (BFE)  |
|                                    |  | Limit of Study   |
|                                    |  | Jurisdiction Boundary  |
| <b>MAP PANELS</b>                  |  | Coastal Transect Baseline  |
|                                    |  | Profile Baseline   |
|                                    |  | Hydrographic Feature   |
|                                    |  | Digital Data Available   |
|                                    |  | No Digital Data Available  |
|                                    |  | Unmapped   |
|                                    |  | The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.                                     |



USGS The National Map: Orthoimagery. Data refreshed April, 2019.



32°17'44.21"N

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/2/2019 at 4:57:51 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

104°7'7.11"W



## APPENDIX III

INITIAL C-141

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	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	pAB1927633446

## Release Notification 574I6-190911-C-1410

### Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Isaac Castro	Contact Telephone 575-988-0561
Contact email <a href="mailto:icastro@marathonoil.com">icastro@marathonoil.com</a>	Incident # (assigned by OCD) <b>NAB1927633805</b>
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 88220	

### Location of Release Source

Latitude 32.29983812 Longitude -104.1238447  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name MARINER FEE 23 28 19 WA #001H	Site Type Oil and gas drilling facility
Date Release Discovered 8/31/19	API# (if applicable) 30-015-44849

Unit Letter	Section	Township	Range	County
O	18	23S	28E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: MCDONALD, HENRY)

### 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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>150</u>	Volume Recovered (bbls) <u>130</u>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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**

A wash out was discovered at a 45 on the main water line from the location's separator.

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	pAB1927633446

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? This was a major release as defined by NMAC 19.15.29.7(A) based on volume of material released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, 8/31/2019 email sent by M. Johnson to Mike Bratcher, Robert Hamlet, Victoria Venegas, and Jim Griswold	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" 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: <u>Isaac Castro</u>	Title: <u>Environmental Professional</u>
Signature: <u><i>Isaac Castro</i></u>	Date: <u>9/11/19</u>
email: <u>icastro@marathonoil.com</u>	Telephone: <u>575-988-0561</u>
<b><u>OCD Only</u></b> Received by: <u>Amalia Bustamante</u> Date: <u>10/03/2019</u>	

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	pAB1927633446

## 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>78</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 <b>not</b> 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.

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	30-015-44849
Application ID	pAB1927633446

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: Isaac Castro Title: Environmental Professional

Signature: \_\_\_\_\_ Date: 12/5/19

email: jcastro@marathonoil.com Telephone: 575-988-0561

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAB1927633805
District RP	2RP-5640
Facility ID	
Application ID	

## Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Melodie Sanjari

Title: Environmental Professional

Signature: *Melodie Sanjari*

Date: 1/14/2020

email: msanjari@marathonoil.com

Telephone: 575-988-0561

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

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	T52M9-191216-C-1410
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Marathon Oil Permian LLC	OGRID: 372098
Contact Name: Melodie Sanjari	Contact Telephone: 575-988-0561
Contact email: msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address: 4111 S. Tidwell Rd., Carlsbad NM 88220	

### Location of Release Source

Latitude 32.29983812

Longitude -104.1238447  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mariner Fee 23 28 19 WA #001H	Site Type: Oil & Gas Drilling Facility
Date Release Discovered: 12/13/2019	API# (if applicable): 30-015-44849

Unit Letter	Section	Township	Range	County
O	18	23S	28E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: Henry McDonald)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 26.53	Volume Recovered (bbls) 25
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride 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

Production reported a release caused by the failure of a union, thought to be due to corrosion. This resulted in the release of approximately 26.53 bbls of crude oil into the SPCC lined containment and onto the pad. Initial response included source elimination, site security and containment. A vacuum truck was immediately dispatched to recover fluids within the containment (25 bbls recovered) and equipment was pressure washed.



Incident ID	
District RP	T52M9-191216-C-1410
Facility ID	
Application ID	

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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
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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
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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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	T52M9-191216-C-1410
Facility ID	
Application ID	

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Printed Name: Melodie Sanjari

Title: Environmental Professional

Signature: *Melodie Sanjari*

Date: 1/14/2020

email: msanjari@marathonoil.com

Telephone: 575-988-0561

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	
District RP	T52M9-191216-C-1410
Facility ID	
Application ID	

## Closure

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

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- Description of remediation activities

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Printed Name: Melodie Sanjari

Title: Environmental Professional

Signature: *Melodie Sanjari*

Date: 1/14/2020

email: msanjari@marathonoil.com

Telephone: 575-988-0561

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_



## APPENDIX IV

# DISPOSAL MANIFESTS

# Expert Transportation Corp.

2911 Connie Rd. • Carlsbad, NM 88220

575-706-1821 • 575-302-2766 # 92652

575-706-2657

Date 8/31/19 Truck # 730

Company Marathon

Location Marathon 137th Street

Deliver to R 360

Seal on \_\_\_\_\_ Seal Off \_\_\_\_\_

Top Gauge \_\_\_\_\_ Bottom Gauge \_\_\_\_\_

Tank No. \_\_\_\_\_ Tank Size \_\_\_\_\_

START TIME 8:00 AM/PM END TIME \_\_\_\_\_ AM/PM TOTAL HOURS \_\_\_\_\_

Fresh water \_\_\_\_\_ Barrels

Brine water \_\_\_\_\_ Barrels

Produced water \_\_\_\_\_ Barrels

Other 60 bbls \_\_\_\_\_ Barrels

3rd Party \_\_\_\_\_ Hours @ \_\_\_\_\_

KCL \_\_\_\_\_ Barrels

Left the yard 8:00am 8:00

Arrive location 9:00

Working on location 9:00

I put 100 feet of hose at location

and the

put around to

clean a spill load

60 bbls of fluids

to wts out

TAX

TOTAL

SWD Disposal Ticket Number \_\_\_\_\_

Work Performed By Maribel Prieto

Signature \_\_\_\_\_ Auth # \_\_\_\_\_

# Expert Transportation Corp.

2911 Connie Rd. • Carlsbad, NM 88220

575-706-1821 • 575-302-2766 # 92746

575-706-2657

Date 8-31-19 Truck # 700

Company MARATHON

Location MARATHON 137th Street

Deliver to R 360

Seal on N/A Seal Off N/A

Top Gauge \_\_\_\_\_ Bottom Gauge \_\_\_\_\_

Tank No. \_\_\_\_\_ Tank Size \_\_\_\_\_

START TIME 8:00 AM/PM END TIME \_\_\_\_\_ AM/PM TOTAL HOURS \_\_\_\_\_

Fresh water \_\_\_\_\_ Barrels

Brine water \_\_\_\_\_ Barrels

Produced water \_\_\_\_\_ Barrels

Other \_\_\_\_\_ 60 Barrels

3rd Party \_\_\_\_\_ Hours @ \_\_\_\_\_

KCL \_\_\_\_\_ Barrels

Worked on location

Working on location

put 100 feet of hose

and the

put around to

clean a spill load

60 bbls of fluids

to wts out

TAX

TOTAL

SWD Disposal Ticket Number \_\_\_\_\_

Work Performed By Maribel Prieto

Signature \_\_\_\_\_ Auth # \_\_\_\_\_

Received by OCD: 1/16/2020 8:22:18 AM

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# Expert Transportation Corp.

2911 Connie Rd. • Carlsbad, NM 88220

575-706-1821 • 575-302-2766 # 92747

575-706-2657

Date 9-2-19 Truck # \_\_\_\_\_

Company MARSHALL \_\_\_\_\_

Location MARKER FLE 142467 91 107 \_\_\_\_\_

Deliver to 540 \_\_\_\_\_

Seal on N/A Seal Off N/A \_\_\_\_\_

Top Gauge N/A Bottom Gauge N/A \_\_\_\_\_

Tank No. C-43000 Tank Size \_\_\_\_\_

START TIME 7:10 : AM END TIME \_\_\_\_\_ : \_\_\_\_\_ : AM TOTAL HOURS \_\_\_\_\_

Fresh water \_\_\_\_\_ Barrels

Brine water \_\_\_\_\_ Barrels

Produced water \_\_\_\_\_ Barrels

Other 11400 10 Barrels

3rd Party \_\_\_\_\_ Hours @ \_\_\_\_\_

KCL \_\_\_\_\_ Barrels

\_\_\_\_\_

\_\_\_\_\_

1 pint 10 FT. of \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SWD Disposal Ticket Number \_\_\_\_\_

Work Performed By MARKER \_\_\_\_\_

Signature \_\_\_\_\_ Auth # \_\_\_\_\_

Received by: OCD: 1/16/2020 8:22:18 AM

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TAX

TOTAL



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELADIE SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 30875  
 Manif. Date: 12/18/2019  
 Hauler: REDLINE OILFIELD SERVICES  
 Driver: OSCAR  
 Truck #: 1  
 Card #  
 Job Ref #

Ticket #: 700-1090383  
 Bid #: O6UJ9A000AM5  
 Date: 12/18/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44849  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 001H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 4.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
11	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

574-370-9782

P.O. Box 3946  
Hobbs, NM 88241  
Office: (575) 964-8410  
Fax: (575) 964-8411

TICKET 30875 FT

TEXAS  NM



COMPANY Talon LPE

COMPANY REP

DATE 12-18-19

LEASE Marathon oil Permian

WELL #wvines Fee 23

DESCRIPTION OF WORK  
Hydrovac flow lines on location hauled 4 yards solids to R-360 disposal, unload and jet out, get back to yard.

API # 30-015-44849

WO #	CHARGES	PROJECT #	HOURS	RATE PER HR.	TASK #	RATE PER DAY	AMOUNT
	Gang Truck						
	Gang Pusher						
	Roustabout						
	Roustabout						
	Roustabout						
	Superintendent						
	General Foreman						
	Equipment Operator						
	Dump Truck						
	Material						
	<del>Yes/Freek</del> Hydrovac 1						
	Loads						
	4-Door Pickup Truck						
	Other Oscar Alvidrez						
	Other Marcos						
	Other						
	Other						
	Other						

Company Rep. Brian Talon Date 12/18/19

Sub Total  
Tax  
Total



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODIE SANJAVI  
 AFE #:  
 PO #:  
 Manifest #: 423404  
 Manif. Date: 12/19/2019  
 Hauler: REDLINE OILFIELD SERVICES  
 Driver: IVAN  
 Truck #: 1  
 Card #  
 Job Ref #

Ticket #: 700-1090717  
 Bid #: O6UJ9A000AM5  
 Date: 12/19/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44849  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 001H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service**

**Quantity Units**

Contaminated Soil (RCRA Exempt)

7.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
11	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information     RCRA Hazardous Waste Analysis     Process Knowledge     Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information

Name Melodie Sanjayi

Phone No. 574-3709782

GENERATOR

Operator No. Marathon
Operators Name Ivan Villalobos
Address
City, State, Zip
Phone No.

NO. 423404
Permit/RRC No. Marathon
Lease/Well Name & No. Mariner Fee 23-28-19 00L H
County
API No. 3001544849
Rig Name & No.
AFE/PO No.

Table with columns for Waste Type (Oil Based Muds, Water Based Cuttings, etc.), Quantity, and Generation Process (Drilling, Completion, Production, etc.). Includes handwritten entries like 'cont-dirt' and 'Hydrovac'.

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.

QUANTITY B - BARRELS L - LIQUID 7 Y - YARDS E EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is...
RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations...
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards...
MSDS Information
RCRA Hazardous Waste Analysis
Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety...

SHIPPER AUTHORIZED ADDRESS NAME DATE SIGNATURE

TRANSPORTER

Transporter Name Redline OilField service LLC
Address 517 S Leech St Hobbs NM
Phone No.

Driver's Name Ivan Villalobos
Print Name
Phone No.
Truck No. Hydrovac 01

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.
12/19/19 Ivan Villalobos 12/19/19 Ivan Villalobos

Table with columns: TRUCK TIME STAMP (IN, OUT), DISPOSAL FACILITY (Name, Address, Phone, etc.), RECEIVING AREA (Name/No.). Includes handwritten entries like '50601'.

TANK BOTTOMS

Table for Tank Bottoms with columns: Feet, Inches, BS&W/BBLs Received, Free Water, Total Received, BS&W (%).

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED
Signature: Chad Date: 12-19-19



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426858  
 Manif. Date: 12/19/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: JUAN  
 Truck #: 02  
 Card #  
 Job Ref #

Ticket #: 700-1090615  
 Bid #: O6UJ9A000AM5  
 Date: 12/19/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

574-870-9782  
Company Man Contact Information

Name: PHENIX  
Phone No. Melody Sangri

GENERATOR

NO. 426858

Operator No. \_\_\_\_\_  
Operators Name JUAN CASTRO  
Address Marathon  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. 30-015-44736  
Lease/Well Name & No. Mariner Fee 23 28 19  
County NA #010H  
API No. \_\_\_\_\_  
Rig Name & No. NOV-Drilling  
AFC/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS	
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)	
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)	
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)	
E&P Contaminated Soil	Truck Washout (exempt waste)		
Gas Plant Waste			

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TC1P), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back.

QUANTITY: B - BARRELS L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

PROVE AUTHORITY TO ACCEPT WASTE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

TRANSPORTER

Transporter's Name TALON LPE Driver's Name JUAN CASTRO  
Address \_\_\_\_\_ Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_ Phone No. \_\_\_\_\_  
Truck No. 02

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

SHIPMENT DATE \_\_\_\_\_ DRIVER'S SIGNATURE \_\_\_\_\_ DELIVERY DATE 12/19/19 DRIVER'S SIGNATURE Juan Castro

TRUCK TIME STAMP IN: \_\_\_\_\_ OUT: \_\_\_\_\_

DISPOSAL FACILITY RECEIVING AREA Name/No. 50/51

Site Name/ Permit No. Halfway Facility / NM1-006 Phone No. 575-393-1079  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES  NO  If YES, was reading > 50 micro roentgens? (circle one) YES  NO

PASS THE PAINT FILTER TEST? (Circle One) YES  NO

TANK BOTTOMS

	Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge				
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why?  
Smartinez 12/19 Adm  
NAME (PRINT) DATE TITLE SIGNATURE



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426860  
 Manif. Date: 12/19/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ERNESTO  
 Truck #: 003  
 Card #  
 Job Ref #

Ticket #: 700-1090616  
 Bid #: O6UJ9A000AM5  
 Date: 12/19/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service**

**Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information     RCRA Hazardous Waste Analysis     Process Knowledge     Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information Name: PHENIX TRANS. Phone No: Meloch SAHJAR!

GENERATOR

NO. 426860

Operator No. Operators Name: ERNESTO CARACHE. Address: MARATHON City, State, Zip Phone No.

Permit/RRC No. Lease/Well Name & No: 30-015-44736 Country: MARINER FEE 23-2819 API No: WA# 010H Rig Name & No. AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for Oil Based Muds, Oil Based Cuttings, Water Based Muds, Water Based Cuttings, Produced Formation Solids, Tank Bottoms, E&P Contaminated Soil, Gas Plant Waste, NON-INJECTABLE WATERS, INJECTABLE WATERS, INTERNAL USE ONLY, OTHER EXEMPT WASTES.

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other: \*please select from Non-Exempt Waste List on back

QUANTITY: B - BARRELS L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

Transporter's Name: TALON LPE Driver's Name: ERNESTO CARACHE. Address Phone No. Truck No: A-003

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/19/19 SHIPMENT DATE

DRIVER'S SIGNATURE

12/19/19 DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP: IN: OUT: DISPOSAL FACILITY RECEIVING AREA Name/No. 50151

Site Name/ Permit No. Halfway Facility / NM1-006 Address: 6601 Hobbs Hwy US 67/180 Mile Marker 66 Carlsbad, NM 88220 Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table with columns for Feet, Inches, BS&W/BBLS Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Sm NAME (PRINT)

12/19 DATE

Adm TITLE

SIGNATURE



Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426859  
 Manif. Date: 12/19/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ABEL  
 Truck #: 48  
 Card #  
 Job Ref #

Ticket #: 700-1090618  
 Bid #: O6UJ9A000AM5  
 Date: 12/19/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Permian Basin

Facility: CRI

**Product / Service**

**Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
<b>Lab Analysis:</b>	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

574 370 9787

Company Man Contact Information

Name: PHEMIA TRAS Phone No. MELODY SAGRI

GENERATOR

NO. 426859

Operator No. Operators Name: Abel Zaragoza MARTIN Address City, State, Zip Phone No.

Permit/RRC No. 30-015-44736 Lease/Well Name & No. MARINER FFE 2329 19 County VTA # 01017 API No. Rig Name & No. AFE/PO No.

Table with columns: OIL BASED MUDS, NON-INJECTABLE WATERS, INJECTABLE WATERS, INTERNAL USE ONLY, OTHER EXEMPT WASTES. Includes checkboxes for DRILLING, COMPLETION, PRODUCTION, GATHERING LINES.

NON-EXEMPT E&P Waste/Service Identification and Amount. All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

QUANTITY B - BARRELS L - LIQUID Y - YARD 20 E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification) RCRA EXEMPT: RCRA NON-EXEMPT: MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below) EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety...

TRANSPORTER: PHEMIA TALON LPE. Driver's Name: Abel Zaragoza. Print Name: Address: Phone No.: Truck No.: A-48. I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. 12/19/19 12/19/19

TRUCK TIME STAMP: IN: OUT: DISPOSAL FACILITY: Name/No. 50151 RECEIVING AREA: Name/No. 50151. Site Name/Permit No. Halfway Facility / NM1-006. Address: 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220. Phone No. 575-393-1079. NORM READINGS TAKEN? (Circle One) YES NO. If YES, was reading > 50 micro roentgens? (circle one) YES NO. PASS THE PAINT FILTER TEST? (Circle One) YES NO.

TANK BOTTOMS table with columns: Feet, Inches, BS&W/BBLs Received, Free Water, Total Received, BS&W (%).

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED denied, why? Sm 12/19 Adm



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426882  
 Manif. Date: 12/19/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: JUAN  
 Truck #: 02  
 Card #  
 Job Ref #

Ticket #: 700-1090710  
 Bid #: O6UJ9A000AM5  
 Date: 12/19/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company/Manifest Information Name: Melody Sanjan Phone No: 574-370-9782

GENERATOR

NO. 426882

Operator No. Operators Name: marathon Address City, State, Zip Phone No.

Permit/RCR No. Lease/Well Name & No. Mariner Fee 23 28 19 WA #010H County API No. Rig Name & No. 30-015-44736 AFE/PO No. NON

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for Oil Based Muds, Water Based Muds, Produced Formation Solids, Tank Bottoms, E&P Contaminated Soil, Gas Plant Waste, NON-INJECTABLE WATERS, INTERNAL USE ONLY, INJECTABLE WATERS, OTHER EXEMPT WASTES.

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other: \*please select from Non-Exempt Waste List on back

QUANTITY: B BARRELS L - LIQUID 200 Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENCIES NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name: Talon, LPE Address Phone No.

Driver's Name: Juan Print Name Phone No. Truck No. 02

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE: 12/19/19

DRIVER'S SIGNATURE: Juan Castro

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT:

Name/No. 50/51

Site Name/ Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table with columns for 1st Gauge, 2nd Gauge, Received, Feet, Inches

Table with columns for BS&W/BDLS Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one) RECEIVED DENIED If denied, why? Smartinez 12/19/19 Adm



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELDOY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426889  
 Manif. Date: 12/19/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ERNESTO  
 Truck #: 003  
 Card #  
 Job Ref #

Ticket #: 700-1090720  
 Bid #: O6UJ9A000AM5  
 Date: 12/19/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service**

**Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
<b>Lab Analysis:</b>	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Main Contact Information

Name Melody Sanjari

Phone No. \_\_\_\_\_

GENERATOR

NO. 426889

Operator No. \_\_\_\_\_  
Operators Name MARATON  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No., Lease/Well Name & No. 30-01544731  
County MARINER Fee 23-2819  
API No. \_\_\_\_\_  
Rig Name & No. WA # 010H  
AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	<input type="checkbox"/>	<b>NON-INJECTABLE WATERS</b>	<input type="checkbox"/>	<b>INJECTABLE WATERS</b>	<input type="checkbox"/>
Oil Based Cuttings	<input type="checkbox"/>	Washout Water (Non-Injectable)	<input type="checkbox"/>	Washout Water (Injectable)	<input type="checkbox"/>
Water Based Muds	<input type="checkbox"/>	Completion Fluid/Flow back (Non-Injectable)	<input type="checkbox"/>	Completion Fluid/Flow back (Injectable)	<input type="checkbox"/>
Water Based Cuttings	<input type="checkbox"/>	Produced Water (Non-Injectable)	<input type="checkbox"/>	Produced Water (Injectable)	<input type="checkbox"/>
Produced Formation Solids	<input type="checkbox"/>	Gathering Line Water/Waste (Non-Injectable)	<input type="checkbox"/>	Gathering Line Water/Waste (Injectable)	<input type="checkbox"/>
Tank Bottoms	<input type="checkbox"/>	<b>INTERNAL USE ONLY</b>	<input type="checkbox"/>	<b>OTHER EXEMPT WASTES (type and generation process of the waste)</b>	<input type="checkbox"/>
E&P Contaminated Soil	<input checked="" type="checkbox"/>	Truck Washout (exempt waste)	<input type="checkbox"/>		
Gas Plant Waste	<input type="checkbox"/>				

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
  - MSDS Information
  - RCRA Hazardous Waste Analysis
  - Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name PHENIX  
Address TALON LPF  
Phone No. \_\_\_\_\_

Driver's Name ERNESTO CARACHE  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. A-003

I hereby certify that the above named material(s) was/were picked up at the generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 12/19/19

DRIVER'S SIGNATURE

DELIVER DATE 12/19/19

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 50/51

Site Name/ Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES  NO

If YES, was reading > 50 micro roentgens? (circle one) YES  NO

PASS THE PAINT FILTER TEST? (Circle One) YES  NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why?

NAME (PRINT)

12/19 DATE

Adm TITLE

SIGNATURE



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426890  
 Manif. Date: 12/19/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ABEL  
 Truck #: 48  
 Card #  
 Job Ref #

Ticket #: 700-1090721  
 Bid #: O6UJ9A000AM5  
 Date: 12/19/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

574370970 Company Man Contact Information

Name MFL001 52625 Phone No

GENERATOR

Operator No Operators Name MARTHON Address City, State, Zip Phone No

Permit/RRC No, Lease/Well Name & No MILLINE FRE 232814 County WH # 01012 API No RIG Name & No AFE/PO No

NO. 26890

30-95-44736

W H # 01012

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for Oil Based Muds, Water Based Muds, Produced Formation Solids, Tank Bottoms, E&P Contaminated Soil, Gas Plant Waste, NON-INJECTABLE WATERS, INTERNAL USE ONLY, and INJECTABLE WATERS.

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and reactivity.

Non-Exempt Other: \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENCIES NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name TALON LPE Address Phone No

Driver's Name Abel Lagarda Print Name Phone No. Truck No. P-48

I hereby certify that the above named material(s) was/were checked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/19/19 SHIPMENT DATE

Driver's Signature

12/19/19 DELIVERY DATE

Driver's Signature

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT:

Name/No. 50/51

Site Name/ Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table with columns for 1st Gauge, 2nd Gauge, Received, Feet, Inches

Table with columns for BS&W/BBLs Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why?

Signature (Print) 12/19

Signature (Print) ADM

Signature (Print)



Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MOLOLY SANJOVI  
 AFE #:  
 PO #:  
 Manifest #: 426883  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: JUAN  
 Truck #: 2  
 Card #  
 Job Ref #

Ticket #: 700-1090976  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Permian Basin

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

\_\_\_\_\_

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information

Name: Melody Sanchez  
Phone No: 574-370-9702

Operator No. Marathon  
Operators Name  
Address  
City, State, Zip  
Phone No.

GENERATOR

NO. 426883  
Marina tag 23 28 19  
WA #0104  
30-015-447360  
NON

Permit/RRC No.  
Lease/Well Name & No.  
County  
API No.  
Rig Name & No.  
AFE/PO No.

Table with columns: Oil Based Muds, Oil Based Cuttings, Water Based Muds, Water Based Cuttings, Produced Formation Solids, Tank Bottoms, E&P Contaminated Soil, Gas Plant Waste. Includes sub-sections for NON-INJECTABLE WATERS, INTERNAL USE ONLY, and INJECTABLE WATERS.

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES  
NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \*please select from Non-Exempt Waste List on back

QUANTITY 20 YARDS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is...  
RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)  
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)  
MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)  
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRANSPORTER  
Transporter's Name: Talon LPE  
Address  
Phone No.  
Driver's Name: Juan  
Print Name  
Phone No.  
Truck No.: 12/20/19 #02

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.  
12/20/19 Juan Lopez

TRUCK TIME STAMP IN: OUT:  
DISPOSAL FACILITY RECEIVING AREA Name/No. 50781  
Site Name/ Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220  
Phone No. 575-393-1079  
NORM READINGS TAKEN? (Circle One) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS  
1st Gauge Received  
2nd Gauge Received  
Feet inches  
BS&W/BBLs Received  
Free Water  
Total Received  
BS&W (%)

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?  
Ched 12-20-19 [Signature]



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426885  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ABEL  
 Truck #: A48  
 Card #  
 Job Ref #

Ticket #: 700-1090987  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

5743709100  
Company Man Contact Information  
Name MELONY SARRS  
Phone No. \_\_\_\_\_

GENERATOR

NO. 426885

Operator No. \_\_\_\_\_  
Operators Name MARATHON  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. 30-05-49736  
Lease/Well Name & No. MAR/VE FRP 32814  
County WH # 01017  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity

Non Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 Y YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
  - MSDS Information
  - RCRA Hazardous Waste Analysis
  - Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name JALON LPE  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name Abel Lagarda  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. A-48

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

12/20/19  
SHIPMENT DATE

[Signature]  
DRIVER'S SIGNATURE

12/20/19  
DELIVERY DATE

[Signature]  
DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 50/S1

Site Name/ Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 67/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES  NO

If YES, was reading > 50 micro roentgens? (circle one) YES  NO

PASS THE PAINT FILTER TEST? (Circle One) YES  NO

TANK BOTTOMS

1st Gauge	Feet	Inches
2nd Gauge		
Received		

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

Smartinez  
NAME (PRINT)

12/20  
DATE

Adm  
TITLE

[Signature]  
SIGNATURE



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELONY SAGNERS  
 AFE #:  
 PO #:  
 Manifest #: 426884  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: OBED  
 Truck #: 49  
 Card #  
 Job Ref #

Ticket #: 700-1090988  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service**

**Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information

Name: Meriam Segers  
Phone No.:

GENERATOR

Operator No. \_\_\_\_\_  
Operators Name: Marathon  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. Lease/Well Name & No. \_\_\_\_\_  
County: WH # 01017  
API No. \_\_\_\_\_  
Rig Name & No.: mariner lee 25 18 19  
AFE/PO No.: wa # 104

NO. 426884  
30-015-19.7-36

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	<b>NON-INJECTABLE WATERS</b>	<b>INJECTABLE WATERS</b>
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	<b>INTERNAL USE ONLY</b>	<b>OTHER EXEMPT WASTES (type and generation process of the waste)</b>
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

**NON-EXEMPT E&P Waste/Service Identification and Amount**  
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY: 20 B - BARRELS      L - LIQUID      3 Y - YARDS      E - FEET

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (check the appropriate classification)

RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non exempt waste (R360 Accepts certifications on a per load basis only)

RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached (Check the appropriate items as provided)

MSDS Information       RCRA Hazardous Waste Analysis       Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S NAME \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

TRANSPORTER

Transporter's Name: TALON LPE  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name: Obed Peria  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No.: A-49

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/20/19 SHIPMENT DATE      DRIVER'S SIGNATURE \_\_\_\_\_      12-20-19 DELIVERY DATE      SIGNATURE \_\_\_\_\_

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____	_____	Name/No. _____
Site Name/Permit No.: <u>Halfway Facility / NM1-006</u>	Phone No.: <u>575-393-1079</u>	
Address: <u>6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220</u>		
NORM READINGS TAKEN? (Circle One) <u>YES</u>	If YES, was reading > 50 micro roentgens? (circle one) <u>NO</u>	YES      NO
PASS THE PAINT FILTER TEST? (Circle One) <u>YES</u>	NO	

TANK BOTTOMS

	Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge			Free Water	
2nd Gauge			Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED      DENIED      If denied, why? \_\_\_\_\_

Chad NAME (PRINT)      10.20.19 DATE      adman TITLE      [Signature] SIGNATURE



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELONY SAGERS  
 AFE #:  
 PO #:  
 Manifest #: 415539  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ERNESTO  
 Truck #: 3  
 Card #  
 Job Ref #

Ticket #: 700-1090991  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service**

**Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
<b>Lab Analysis:</b>	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information     RCRA Hazardous Waste Analysis     Process Knowledge     Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

574 3709 762  
Company Man Contact Information  
Name Melony Sabers

Phone No. \_\_\_\_\_

GENERATOR

Operator No. \_\_\_\_\_  
Operators Name MARATHON  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. 30-0549736  
Lease/Well Name & No. MARINER Fee 232814  
County WH #01017  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

NO. 415539

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	<input type="checkbox"/>	<b>NON-INJECTABLE WATERS</b>	<input type="checkbox"/>	<b>INJECTABLE WATERS</b>	<input type="checkbox"/>
Oil Based Cuttings	<input type="checkbox"/>	Washout Water (Non-Injectable)	<input type="checkbox"/>	Washout Water (Injectable)	<input type="checkbox"/>
Water Based Muds	<input type="checkbox"/>	Completion Fluid/Flow back (Non-Injectable)	<input type="checkbox"/>	Completion Fluid/Flow back (Injectable)	<input type="checkbox"/>
Water Based Cuttings	<input type="checkbox"/>	Produced Water (Non-Injectable)	<input type="checkbox"/>	Produced Water (Injectable)	<input type="checkbox"/>
Produced Formation Solids	<input type="checkbox"/>	Gathering Line Water/Waste (Non-Injectable)	<input type="checkbox"/>	Gathering Line Water/Waste (Injectable)	<input type="checkbox"/>
Tank Bottoms	<input type="checkbox"/>	<b>INTERNAL USE ONLY</b>	<input type="checkbox"/>	<b>OTHER EXEMPT WASTES (type and generation process of the waste)</b>	<input type="checkbox"/>
E&P Contaminated Soil	<input checked="" type="checkbox"/>	Truck Washout (exempt waste)	<input type="checkbox"/>		
Gas Plant Waste	<input type="checkbox"/>				

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
  - MSDS Information
  - RCRA Hazardous Waste Analysis
  - Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name TALON LPE  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name ERNESTO CARACAO  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. A-003

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/20/19  
SHIPMENT DATE

[Signature]  
DRIVER'S SIGNATURE

12/20/19  
DELIVERY DATE

[Signature]  
DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 50661

Site Name/ Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED NO DENIED If denied, why? [Signature]  
NAME (PRINT) Chad DATE 12/30/19 TITLE Driver SIGNATURE [Signature]



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELDOY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 426886  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: JUAN  
 Truck #: 02  
 Card #  
 Job Ref #

Ticket #: 700-1091050  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information Name: Melody San Juan Phone No: 574-370-9782

Generator information: Operator No. Marathon, Generator NO. 426886, Permit/RRC No. Lease/Well Name & No. Mariner Fee, City, State, Zip 23 28 19 WA 0104, Phone No. 30-015 447360

Table with 3 columns: Oil Based Muds, NON-INJECTABLE WATERS, INJECTABLE WATERS. Includes rows for Washout Water, Completion Fluid, Produced Water, and Gas Plant Waste.

WASTE GENERATION PROCESS: DRILLING, COMPLETION, PRODUCTION, GATHERING LINES. NON-EXEMPT E&P Waste/Service Identification and Amount.

QUANTITY: B - BARRELS, L - LIQUID, 20 YARDS, E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification) RCRA EXEMPT, RCRA NON-EXEMPT, MSDS Information, RCRA Hazardous Waste Analysis, Other (Provide Description Below), EMERGENCY NON-OILFIELD.

(PRINT) APPROVED PERSON NAME, DATE, SIGNATURE

Transporter information: Transporter's Name TALON LPE, Driver's Name JUAN, Address, Print Name, Phone No., Truck No. #02

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. 12/20/19 Juan Castro

TRUCK TIME STAMP, DISPOSAL FACILITY, RECEIVING AREA. Site Name/Permit No. Halfway Facility / NM1-006, Address 6601 Hobbs Hwy US 62/180 Mile Marker G6 Carlsbad, NM 88220, Phone No. 575-393-1079. NORM READINGS TAKEN? (Circle One) YES NO, PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS table with columns for Feet, Inches, B5&W/BBLS Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? Sm 12/20 Adm



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 415543  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ABEL  
 Truck #: A48  
 Card #  
 Job Ref #

Ticket #: 700-1091053  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
<b>Lab Analysis:</b>	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

30-015-44736  
Company Man Contact Information

Name MARINE FRE  
Phone No. WH # 01017

GENERATOR

Operator No. \_\_\_\_\_  
Operators Name MARATHON  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. 30-015-44736  
County \_\_\_\_\_  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	<b>NON-INJECTABLE WATERS</b>	<b>INJECTABLE WATERS</b>
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	<b>INTERNAL USE ONLY</b>	<b>OTHER EXEMPT WASTES (type and generation process of the waste)</b>
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY \_\_\_\_\_ B - BARRELS \_\_\_\_\_ L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- MSDS Information
- RCRA Hazardous Waste Analysis
- Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

Melody Sanjar  
DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

TRANSPORTER

Transporter's Name TALON LPE  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name Abel Lagarda  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. A48

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/20/19  
SHIPMENT DATE

[Signature]  
DRIVER'S SIGNATURE

12/20/19  
DELIVERY DATE

[Signature]  
DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 50157

Site Name/ Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES  NO

If YES, was reading > 50 micro roentgens? (circle one) YES  NO

PASS THE PAINT FILTER TEST? (Circle One) YES  NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED Adm If denied, why? [Signature]  
NAME (PRINT) Sm DATE 12/20 TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 415542  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ERNESTO  
 Truck #: 003  
 Card #  
 Job Ref #

Ticket #: 700-1091056  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

574 487 09782

Company Main Contact Information

Name Melodi SGRS

Phone No.

GENERATOR

Operator No. Operators Name HARATRON Address City, State, Zip Phone No.

Permit/RRC No. Lease/Well Name & No. HARINER Foc 232814 County WH 01012 API No. Rig Name & No. AFE/PO No.

NO. 415542

30-05-41736

HARINER Foc 232814

WH 01012

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for Oil Based Muds, Oil Based Cuttings, Water Based Muds, Water Based Cuttings, Produced Formation Solids, Tank Bottoms, E&P Contaminated Soil, Gas Plant Waste, NON-INJECTABLE WATERS, INTERNAL USE ONLY, INJECTABLE WATERS, OTHER EXEMPT WASTES.

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information
RCRA Hazardous Waste Analysis
Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

PRINTED BY PRODUCED AGENTS, DATE SIGNATURE

TRANSPORTER

Transporter's Name TALON LPE Address Phone No.

Driver's Name ERNESTO CARACHE Print Name Phone No. Truck No. A-003

I hereby certify that the above named material(s) was/were picked up at the generator's site listed above and delivered without incident to the disposal facility listed below. 12/20/19 DRIVER'S SIGNATURE 12/20/19 DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: OUT: DISPOSAL FACILITY RECEIVING AREA Name/No. 50/51

Site Name/ Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 Phone No. 575-393-1079 NORM READINGS TAKEN? (Circle One) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table with columns for Feet, Inches, B5&W/BBLs Received, Free Water, Total Received, B5&W (%)

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? Sm 12/20 Adm SIGNATURE



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SAGNERS  
 AFE #:  
 PO #:  
 Manifest #: 415544  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ABEL  
 Truck #: 48  
 Card #  
 Job Ref #

Ticket #: 700-1091129  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
<b>Lab Analysis:</b>	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

30-015-1736 Company Man Contact Information

Name MELODY SOBRS Phone No.

GENERATOR

Operator No. Operators Name MARATHON Address City, State, Zip Phone No.

Permit/RRC No. Lease/Well Name & No. MARINE FRE W# # 01017 County API No. RIG Name & No. AFE/PO No.

NO. 415544 30-015-9736

Table with columns for Waste Type (Oil Based Muds, Water Based Muds, etc.), Non-Injectable Waters, and Injectible Waters. Includes checkboxes for DRILLING, COMPLETION, PRODUCTION, and GATHERING LINES.

NON-EXEMPT E&P Waste/Service Identification and Amount. All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

QUANTITY B - BARRELS L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information
RCRA Hazardous Waste Analysis
Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

MELODY SOBRS

DATE SIGNATURE

TRANSPORTER

Transporter's Name TALON LPE Address Phone No.

Driver's Name Abel Loyola Print Name Phone No. Truck No. A-48

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/20/19 SHIPMENT DATE

DRIVER'S SIGNATURE

12/20/19 DELIVERY DATE

DRIVER'S SIGNATURE

Table with columns: TRUCK TIME STAMP (IN: OUT:), DISPOSAL FACILITY, RECEIVING AREA (Name/No. SOBRS)

Site Name/ Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table with columns: 1st Gauge, 2nd Gauge, Received, Feet, Inches, BS&W/BBLS Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? SIGNATURE



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELONY SAGNERS  
 AFE #:  
 PO #:  
 Manifest #: 415541  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: OBED  
 Truck #: 49  
 Card #  
 Job Ref #

Ticket #: 700-1091132  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information

Name \_\_\_\_\_

Phone No. \_\_\_\_\_

GENERATOR

Operator No. Marathon oil company  
Operators Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. 30-015-497 36  
Lease/Well Name & No. WH # 01017  
County \_\_\_\_\_  
API No. \_\_\_\_\_  
Rig Name & No. Mariner Fee 231819  
AFE/PO No. wa # 10H

NO. 415541

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	<input type="checkbox"/>	<b>NON-INJECTABLE WATERS</b>	<input type="checkbox"/>	<b>INJECTABLE WATERS</b>	<input type="checkbox"/>
Oil Based Cuttings	<input type="checkbox"/>	Washout Water (Non-Injectable)	<input type="checkbox"/>	Washout Water (Injectable)	<input type="checkbox"/>
Water Based Muds	<input type="checkbox"/>	Completion Fluid/Flow back (Non-Injectable)	<input type="checkbox"/>	Completion Fluid/Flow back (Injectable)	<input type="checkbox"/>
Water Based Cuttings	<input type="checkbox"/>	Produced Water (Non-Injectable)	<input type="checkbox"/>	Produced Water (Injectable)	<input type="checkbox"/>
Produced Formation Solids	<input type="checkbox"/>	Gathering Line Water/Waste (Non-Injectable)	<input type="checkbox"/>	Gathering Line Water/Waste (Injectable)	<input type="checkbox"/>
Tank Bottoms	<input type="checkbox"/>	<b>INTERNAL USE ONLY</b>	<input type="checkbox"/>	<b>OTHER EXEMPT WASTES (type and generation process of the waste)</b>	<input type="checkbox"/>
E&P Contaminated Soil	<input checked="" type="checkbox"/>	Truck Washout (exempt waste)	<input type="checkbox"/>		
Gas Plant Waste	<input type="checkbox"/>				

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCPLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY 20 B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
  - MSDS information
  - RCRA Hazardous Waste Analysis
  - Other (Provide Description Below)
- EMERGENCY NON OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name TALON LTE  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name Chad Parra  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. A-49

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.  
SHIPMENT DATE 12-20-19 DRIVER'S SIGNATURE \_\_\_\_\_ DELIVERY DATE 12-20-19 DRIVER'S SIGNATURE Chad Parra

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. SFSI

Site Name/Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES  NO  If YES, was reading > 50 micro roentgens? (circle one) YES  NO   
PASS THE PAINT FILTER TEST? (Circle One) YES  NO

TANK BOTTOMS

1st Gauge Received	Feet _____	Inches _____	BS&W/BBLs Received	BS&W (%)
2nd Gauge Received	_____	_____	Free Water	_____
			Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_  
DATE 12-20-19 TITLE adm SIGNATURE \_\_\_\_\_



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELONY SAGNERS  
 AFE #:  
 PO #:  
 Manifest #: 426887  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: JUAN  
 Truck #: 2  
 Card #  
 Job Ref #

Ticket #: 700-1091147  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	20.00	yards
<b>Lab Analysis:</b>	Cell	pH
	50/51	0.00
	Cl	Cond.
	0.00	0.00
	%Solids	TDS
	0	
	PCI/GM	MR/HR
		H2S
		% Oil
		Weight

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information     RCRA Hazardous Waste Analysis     Process Knowledge     Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Melinda Saleri  
Name  
574-370-9182  
Phone No.

Operator No. Murahedon GENERATOR NO. 426887  
Operators Name \_\_\_\_\_ Permit/RRC No. \_\_\_\_\_  
Address \_\_\_\_\_ Name & No. Mariner Fee  
City, State, Zip \_\_\_\_\_ County 23 28 19 wj 01061  
Phone No. \_\_\_\_\_ API No. 30-015 447360  
AFE/PO No. NOR

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable)	Washout Water (Injectable)
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Muds	Produced Water (Non-Injectable)	Produced Water (Injectable)
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Produced Formation Solids	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generator process of the waste)
Tank Bottoms	Truck Washout (exempt waste)	
E&P Contaminated Soil		
Gas Plant Waste		

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.  
Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)  
 RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)  
 RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)  
 MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)  
 EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

SHIPMENT DATE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

TRANSPORTER  
Transporter's Name TALON LPE Driver's Name JUAN  
Address \_\_\_\_\_ Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_ Truck No. #02

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below  
12/20/19 Juan Lopez

TRUCK TIME STAMP IN: \_\_\_\_\_ OUT: \_\_\_\_\_ DISPOSAL FACILITY RECEIVING AREA Name/No. 5051

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-393-1079  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220  
NORM READINGS TAKEN? (Circle One) YES  NO  If YES, was reading > 50 micro roentgens? (circle one) YES  NO   
PASS THE PAINT FILTER TEST? (Circle One) YES  NO

TANK BOTTOMS

	Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge				
2nd Gauge				
Received			Free Water	
			Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?  
Chad 12-20-19 John [Signature]  
NAME (PRINT) DATE TITLE SIGNATURE



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELONY SAGNERS  
 AFE #:  
 PO #:  
 Manifest #: 415540  
 Manif. Date: 12/21/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: OBED  
 Truck #: 49  
 Card #  
 Job Ref #

Ticket #: 700-1091374  
 Bid #: O6UJ9A000AM5  
 Date: 12/21/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
<b>Lab Analysis:</b>	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information

Name: Melany

Phone No. Segners

GENERATOR

NO. 415540

Operator No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Operators Name Marathon

Lease/Well Name & No. Mariner Fee 23

Address \_\_\_\_\_

County 28 19 wa #1014

City, State, Zip \_\_\_\_\_

Rig Name & No. \_\_\_\_\_

Phone No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY 70 B - BARRELS L - LIQUID YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached, (Check the appropriate items as provided)
  - MSDS Information
  - RCRA Hazardous Waste Analysis
  - Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

SHIPMENT DATE \_\_\_\_\_ DRIVER'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

TRANSPORTER

Transporter's Name TALON LPE  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name Chad  
Print Name Chad Pona  
Phone No. 575 238 0938  
Truck No. A-49

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. 12-20-19

SHIPMENT DATE \_\_\_\_\_ DRIVER'S SIGNATURE \_\_\_\_\_ DELIVERY DATE \_\_\_\_\_ DRIVER'S SIGNATURE \_\_\_\_\_

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_ Name/No. 50161

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-393-1079  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

1st Gauge	Feet	Inches	BS&W/BBLS Received	BS&W (%)
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_  
Chad NAME (PRINT) 12-20-19 DATE adm TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 393299  
 Manif. Date: 12/23/2019  
 Hauler: G MANNYS TRUCKING LLC  
 Driver: JOSE  
 Truck #: 29  
 Card #  
 Job Ref #

Ticket #: 700-1092059  
 Bid #: O6UJ9A000AM5  
 Date: 12/23/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
<b>Lab Analysis:</b>	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature**

**R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company/Man Contact Information Name: Melody Sanjari Phone No.:

GENERATOR

NO. 393299

Operator No. Operators Name: Marathon OIL Address: 4115 Tidwell City, State, Zip: Carlsbad NM 89620 Phone No.:

Permit/RRC No. Lease/Well Name & No.: Mariner FEE CTB W1104 County: 30 015 44736 RIG Name & No. AFE/PO No.:

Table with columns for waste types: Oil Based Muds, Water Based Muds, Produced Formation Solids, E&P Contaminated Soil, Gas Plant Waste, NON-INJECTABLE WATERS, INTERNAL USE ONLY, INJECTABLE WATERS, OTHER EXEMPT WASTES. Includes checkboxes for WASTE GENERATION PROCESS: DRILLING, COMPLETION, PRODUCTION, GATHERING LINES.

NON-EXEMPT E&P Waste/Service Identification and Amount. All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity. Non-Exempt Other: \*please select from Non-Exempt Waste List on back

QUANTITY: B - BARRELS, L - LIQUID, Y - YARDS 20, E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information, RCRA Hazardous Waste Analysis, Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENEY NAME, DATE, SIGNATURE

TRANSPORTER

Transporter's Name: Manny's Trucking LLC Address: Phone No: 915 540 3350

Driver's Name: Jose M Garcia Print Name: Phone No: 915 540 3350 Truck No: 29

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. SHIPMENT DATE: 12-23-19, DELIVERY DATE: 12-23-19

Table with columns: TRUCK TIME STAMP (IN, OUT), DISPOSAL FACILITY (Name/No. 50/51), RECEIVING AREA (Name/No. 50/51). Includes checkboxes for NORM READINGS TAKEN?, PASS THE PAINT FILTER TEST?, If YES, was reading > 50 micro roentgens?, If denied, why?

TANK BOTTOMS

Table for Tank Bottoms: 1st Gauge, 2nd Gauge Received, BS&W/BBLs Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? Signatures: Sm, Adm, Date: 12/23



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 428085  
 Manif. Date: 12/23/2019  
 Hauler: CARDENAS TRUCKING  
 Driver: LUIS  
 Truck #: 08  
 Card #  
 Job Ref #

Ticket #: 700-1092060  
 Bid #: O6UJ9A000AM5  
 Date: 12/23/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information

Name Melody

Phone No. Sanjari

GENERATOR

NO. 428085

Operator No. \_\_\_\_\_  
Operators Name Marathon oil.  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Marathon C7.B  
County Mariner Feb 23-28-19 WA  
API No. \_\_\_\_\_  
Rig Name & No. NON Drill  
AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	<input type="checkbox"/>	<b>NON-INJECTABLE WATERS</b>	<input type="checkbox"/>	<b>INJECTABLE WATERS</b>	<input type="checkbox"/>
Oil Based Cuttings	<input type="checkbox"/>	Washout Water (Non-Injectable)	<input type="checkbox"/>	Washout Water (Injectable)	<input type="checkbox"/>
Water Based Muds	<input type="checkbox"/>	Completion Fluid/Flow back (Non-Injectable)	<input type="checkbox"/>	Completion Fluid/Flow back (Injectable)	<input type="checkbox"/>
Water Based Cuttings	<input type="checkbox"/>	Produced Water (Non-Injectable)	<input type="checkbox"/>	Produced Water (Injectable)	<input type="checkbox"/>
Produced Formation Solids	<input type="checkbox"/>	Gathering Line Water/Waste (Non-Injectable)	<input type="checkbox"/>	Gathering Line Water/Waste (Injectable)	<input type="checkbox"/>
Tank Bottoms	<input type="checkbox"/>	<b>INTERNAL USE ONLY</b>	<input type="checkbox"/>	<b>OTHER EXEMPT WASTES (type and generation process of the waste)</b>	<input type="checkbox"/>
E&P Contaminated Soil	<input checked="" type="checkbox"/>	Truck Washout (exempt waste)	<input type="checkbox"/>		
Gas Plant Waste	<input type="checkbox"/>				

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and lie below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 Y - YARD E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
  - MSDS Information
  - RCRA Hazardous Waste Analysis
  - Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME \_\_\_\_\_

DATE 12-23-19

SIGNATURE \_\_\_\_\_

TRANSPORTER

Transporter's Name Cardenas Trucking  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name Ruis Cardenas  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. 08

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE 12/23

DRIVER'S SIGNATURE \_\_\_\_\_

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 50/01

Site Name/ Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES  NO  If YES, was reading > 50 micro roentgens? (circle one) YES  NO

PASS THE PAINT FILTER TEST? (Circle One) YES  NO

TANK BOTTOMS

1st Gauge	Feet	Inches
2nd Gauge		
Received		

BSR&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE 12/23

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 428095  
 Manif. Date: 12/23/2019  
 Hauler: PHOENIX ENERGY  
 Driver: JUAN  
 Truck #: 02  
 Card #  
 Job Ref #

Ticket #: 700-1092071  
 Bid #: O6UJ9A000AM5  
 Date: 12/23/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	20.00	yards

Lab Analysis:	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information     RCRA Hazardous Waste Analysis     Process Knowledge     Other (Provide description above)

**Driver/ Agent Signature** \_\_\_\_\_ **R360 Representative Signature** \_\_\_\_\_

**Customer Approval** \_\_\_\_\_

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information Name: Malody SUGARI Phone No.

GENERATOR

Operator No. Operators Name: MORATON Address: City, State, Zip Phone No.

Permit/RRC No. Lease/Well Name & No. 30-015 44736 4022232814 WH # 01617 10H County: API No. RIG Name & No. nun drill AFE/PO No.

NO. 428095

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for Oil Based Muds, NON-INJECTABLE WATERS, and INJECTABLE WATERS. Includes checkboxes for DRILLING, COMPLETION, PRODUCTION, and GATHERING LINES.

NON-EXEMPT E&P Waste/Service Identification and Amount All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCIP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 200 YARDS E - LACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

SPRINGER AUTHORIZED OFFICE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name: Phoenix Energy Driver's Name: John Conaccio Address: Phone No. Truck No. 02

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/23/19 SIGNMENT DATE DRIVER'S SIGNATURE 12/23/19 DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT: Name/No. 52107

Site Name/ Permit No. Halfway Facility / NM1-006 Address: 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table with columns for Feet, Inches, BS&W/BBLs Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above listed material has been (circle one): ACCEPTED DENIED If denied, why?

Signatures and dates for Generator, Transporter, and Receiver.



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MELODY SANJARI  
 AFE #:  
 PO #:  
 Manifest #: 428100  
 Manif. Date: 12/23/2019  
 Hauler: PHOENIX ENERGY  
 Driver: ABEL  
 Truck #: 48  
 Card #  
 Job Ref #

Ticket #: 700-1092073  
 Bid #: O6UJ9A000AM5  
 Date: 12/23/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	20.00	yards
<b>Lab Analysis:</b>	Cell	pH
	50/51	0.00
	Cl	Cond.
	0.00	0.00
	%Solids	TDS
	0	
	PCI/GM	MR/HR
		H2S
		% Oil
		Weight

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information     RCRA Hazardous Waste Analysis     Process Knowledge     Other (Provide description above)

**Driver/ Agent Signature** \_\_\_\_\_ **R360 Representative Signature** \_\_\_\_\_

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact information

Name MELODY S. BARKER

Phone No.

GENERATOR

Operator No. Operators Name M. RATHON Address City, State, Zip Phone No.

Permit/RRC No. Lease/Well Name & No. County API No. Rig Name & No. AFE/PO No.

NO. 428100 30-015-44-736 MARIMER FRE 2325 14 WH # 61017 # 10-H non drill

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for waste types (Oil Based Muds, Water Based Muds, etc.) and identification/amount fields. Includes sub-sections for NON-INJECTABLE WATERS, INTERNAL USE ONLY, and INJECTABLE WATERS.

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 YARDS E - FACI

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations.
MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name TALON L PE Address PHONEIX Phone No.

Driver's Name Abel Lagarda Print Name Phone No. Truck No. A-48

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/23/19 SHIPMENT DATE

Generator's Signature

12/23 DELIVERY DATE

Driver's Signature

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT: Name/No. 50151

Site Name/ Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table for Tank Bottoms with columns for Feet, Inches, BS&W/BBLS Received, Free Water, Total Received, and BS&W (%).

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Signatures of Generator, Transporter, and Receiver with dates.



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: ISAAC CASTRO  
 AFE #: .  
 PO #:  
 Manifest #: 401924  
 Manif. Date: 12/18/2019  
 Hauler: Mulholland Energy Services  
 Driver: ALBERTO  
 Truck #: 121  
 Card #  
 Job Ref #

Ticket #: 700-1090231  
 Bid #: O6UJ9A000AM5  
 Date: 12/18/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

**Product / Service** **Quantity** **Units**

Contaminated Soil (RCRA Exempt) 5.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Jet Wash (Recycled Water) 1.00 hour

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information Name: X Isaac Castro Phone No.: X 575-988-0561

GENERATOR NO. 401924 Operator No. Marathon oil Permit/RRC No. Lease/Well Name & No. Murriner fee 232819 WAICH County Eddy API No. 30-015 44736

Table with columns for Waste Type (Oil Based Muds, Water Based Muds, etc.), Non-Injectable Waters, and Injectible Waters. Includes checkboxes for DRILLING, COMPLETION, PRODUCTION, and GATHERING LINES.

NON-EXEMPT E&P Waste/Service Identification and Amount. All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

QUANTITY B - BARRELS 5 L - LIQUID Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification) RCRA EXEMPT: [checked] RCRA NON-EXEMPT: [ ] MSDS Information [ ] RCRA Hazardous Waste Analysis [ ] Other [ ] EMERGENCY NON-OILFIELD: [ ]

TRANSPORTER Name: Energy Service w72 CR Midland TX Driver's Name: Alberto Lujan Phone No.: 915-305 6246 Truck No.: 121

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. SHIPMENT DATE: 12-18-19 DRIVER'S SIGNATURE: [Signature] DELIVERY DATE: 12-18-19 DRIVER'S SIGNATURE: [Signature]

TRUCK TIME STAMP IN: OUT: DISPOSAL FACILITY Name/No.: RECEIVING AREA Name/No.: 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 Phone No.: 575-393-1079

TANK BOTTOMS Table with columns for Gauge (1st, 2nd), Received, Feet, Inches, BS&W/BBLS Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one): ACCEPTED [checked] DENIED [ ] If denied, why? [Signature]



Permian Basin

Customer: MARATHON OIL COMPANY  
 Customer #: CRI3930  
 Ordered by: MCCODL SPEARS  
 AFE #: ...  
 PO #:  
 Manifest #: 420632  
 Manif. Date: 12/20/2019  
 Hauler: TALON/LPE, LTD.  
 Driver: ERNESTO  
 Truck #: 3  
 Card #  
 Job Ref #

Ticket #: 700-1091138  
 Bid #: O6UJ9A000AM5  
 Date: 12/20/2019  
 Generator: MARATHON OIL COMPANY  
 Generator #:  
 Well Ser. #: 44736  
 Well Name: MARINER FEE 23 28 19 WA  
 Well #: 010H  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	20.00	yards

Lab Analysis:	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
	50/51	0.00	0.00	0.00	0						

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information     RCRA Hazardous Waste Analysis     Process Knowledge     Other (Provide description above)

**Driver/ Agent Signature** \_\_\_\_\_ **R360 Representative Signature** \_\_\_\_\_

**Customer Approval**

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

574 370 0782

Company Man Contact Information

Name McCord SPEARS

Phone No.

GENERATOR

Operator No. \_\_\_\_\_  
Operator's Name MARATHON  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. 30-015-44736  
County \_\_\_\_\_  
API No. \_\_\_\_\_  
Rig Name & No. MARINER Fee 232814  
AFE/PO No. WH # 01612

NO. 420632

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable)	Washout Water (Injectable)
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Muds	Produced Water (Non-Injectable)	Produced Water (Injectable)
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Produced Formation Solids		
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:  DRILLING  COMPLETION  PRODUCTION  GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY: B - BARRELS, L - LIQUID, 20 YARDS, E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
  - MSDS Information
  - RCRA Hazardous Waste Analysis
  - Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) WITH DRIVER'S SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name TALON LPE  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name ERNESTO CANACHE  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. A-003

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12/20/19  
SHIPMENT DATE

DRIVER'S SIGNATURE

12/20/19  
DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 5091

Site Name/Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/DBLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Chris  
TRANSPORTER

12-20-19  
DATE

Ernesto  
DATE

Ernesto  
SIGNATURE



## APPENDIX V

# PHOTOGRAPHIC DOCUMENTATION

Marathon Oil-Mariner Fee 23 28 19 WA #001H

PHOTO DOCUMENTATION



Aerial of Site (staining)



Area of B1



Area of B4



Area of B5



Area of B6

**Marathon Oil-Mariner Fee 23 28 19 WA #001H  
PHOTO DOCUMENTATION-Remediation**



Excavation North of Tank Area (Pad)



Hydrovac lines-Generator Area

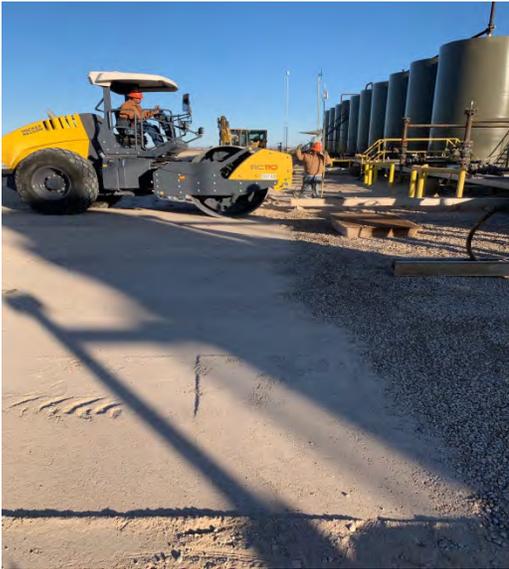


Excavation Area South of Well Heads



Hand Excavation 2<sup>nd</sup> Spill Area (Generators)

**Marathon Oil-Mariner Fee 23 28 19 WA #001H  
PHOTO DOCUMENTATION  
COMPLETION**



Completion 2nd Spill Area (Pad)



Pad Area Completion North of Tanks



Completion Compressor Fuel Tank Area (Pad)



Completion 2<sup>nd</sup> Spill Area (Generators)



## APPENDIX VI

# Laboratory Data



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

November 25, 2019

Rebecca Pons  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL: (505) 385-1226  
FAX (505) 299-2720

RE: Mariner CTB

OrderNo.: 1911A10

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 17 sample(s) on 11/21/2019 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Talon Artesia

Client Sample ID: B1 @ 6ft

Project: Mariner CTB

Collection Date: 11/18/2019 9:00:00 AM

Lab ID: 1911A10-001

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	300	59		mg/Kg	20	11/22/2019 8:09:17 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/22/2019 10:59:25 AM	48962
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/22/2019 10:59:25 AM	48962
Surr: DNOP	97.2	70-130		%Rec	1	11/22/2019 10:59:25 AM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/22/2019 9:03:52 AM	48947
Surr: BFB	105	77.4-118		%Rec	1	11/22/2019 9:03:52 AM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/22/2019 9:03:52 AM	48947
Toluene	ND	0.048		mg/Kg	1	11/22/2019 9:03:52 AM	48947
Ethylbenzene	ND	0.048		mg/Kg	1	11/22/2019 9:03:52 AM	48947
Xylenes, Total	ND	0.096		mg/Kg	1	11/22/2019 9:03:52 AM	48947
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	11/22/2019 9:03:52 AM	48947

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

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

**Analytical Report**

Lab Order **1911A10**

Date Reported: **11/25/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** B2 @ 3ft

**Project:** Mariner CTB

**Collection Date:** 11/18/2019 9:30:00 AM

**Lab ID:** 1911A10-002

**Matrix:** SOIL

**Received Date:** 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	280	60		mg/Kg	20	11/22/2019 8:46:31 PM	48982

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Talon Artesia

Client Sample ID: B2 @ 2ft

Project: Mariner CTB

Collection Date: 11/18/2019 9:30:00 AM

Lab ID: 1911A10-003

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	550	60		mg/Kg	20	11/22/2019 8:58:55 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/22/2019 11:17:32 AM	48962
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/22/2019 11:17:32 AM	48962
Surr: DNOP	88.6	70-130		%Rec	1	11/22/2019 11:17:32 AM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2019 11:24:44 AM	48947
Surr: BFB	111	77.4-118		%Rec	1	11/22/2019 11:24:44 AM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/22/2019 11:24:44 AM	48947
Toluene	ND	0.047		mg/Kg	1	11/22/2019 11:24:44 AM	48947
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2019 11:24:44 AM	48947
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2019 11:24:44 AM	48947
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	11/22/2019 11:24:44 AM	48947

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B4 @ Surface

Project: Mariner CTB

Collection Date: 11/18/2019 2:30:00 PM

Lab ID: 1911A10-004

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	1200	60		mg/Kg	20	11/22/2019 9:11:20 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/22/2019 11:26:35 AM	48962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/22/2019 11:26:35 AM	48962
Surr: DNOP	95.2	70-130		%Rec	1	11/22/2019 11:26:35 AM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/22/2019 12:35:24 PM	48947
Surr: BFB	100	77.4-118		%Rec	1	11/22/2019 12:35:24 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/22/2019 12:35:24 PM	48947
Toluene	ND	0.046		mg/Kg	1	11/22/2019 12:35:24 PM	48947
Ethylbenzene	ND	0.046		mg/Kg	1	11/22/2019 12:35:24 PM	48947
Xylenes, Total	ND	0.093		mg/Kg	1	11/22/2019 12:35:24 PM	48947
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	11/22/2019 12:35:24 PM	48947

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

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

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B5 @ Surface-1'

Project: Mariner CTB

Collection Date: 11/18/2019 3:20:00 PM

Lab ID: 1911A10-005

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	1200	60		mg/Kg	20	11/22/2019 9:23:45 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	33	10		mg/Kg	1	11/22/2019 11:35:36 AM	48962
Motor Oil Range Organics (MRO)	65	50		mg/Kg	1	11/22/2019 11:35:36 AM	48962
Surr: DNOP	91.6	70-130		%Rec	1	11/22/2019 11:35:36 AM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/22/2019 12:58:44 PM	48947
Surr: BFB	103	77.4-118		%Rec	1	11/22/2019 12:58:44 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/22/2019 12:58:44 PM	48947
Toluene	ND	0.050		mg/Kg	1	11/22/2019 12:58:44 PM	48947
Ethylbenzene	ND	0.050		mg/Kg	1	11/22/2019 12:58:44 PM	48947
Xylenes, Total	ND	0.10		mg/Kg	1	11/22/2019 12:58:44 PM	48947
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	11/22/2019 12:58:44 PM	48947

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**

Lab Order **1911A10**

Date Reported: **11/25/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** B5 @ 4ft

**Project:** Mariner CTB

**Collection Date:** 11/18/2019 3:20:00 PM

**Lab ID:** 1911A10-006

**Matrix:** SOIL

**Received Date:** 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	590	60		mg/Kg	20	11/22/2019 9:36:10 PM	48982

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B6 @ Surface 2-1'

Project: Mariner CTB

Collection Date: 11/18/2019 4:00:00 PM

Lab ID: 1911A10-007

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	880	60		mg/Kg	20	11/22/2019 9:48:34 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/22/2019 11:44:40 AM	48962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/22/2019 11:44:40 AM	48962
Surr: DNOP	93.0	70-130		%Rec	1	11/22/2019 11:44:40 AM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/22/2019 1:22:18 PM	48947
Surr: BFB	106	77.4-118		%Rec	1	11/22/2019 1:22:18 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/22/2019 1:22:18 PM	48947
Toluene	ND	0.050		mg/Kg	1	11/22/2019 1:22:18 PM	48947
Ethylbenzene	ND	0.050		mg/Kg	1	11/22/2019 1:22:18 PM	48947
Xylenes, Total	ND	0.10		mg/Kg	1	11/22/2019 1:22:18 PM	48947
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/22/2019 1:22:18 PM	48947

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

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

**Analytical Report**

Lab Order **1911A10**

Date Reported: **11/25/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** B6 @ 3ft

**Project:** Mariner CTB

**Collection Date:** 11/18/2019 4:00:00 PM

**Lab ID:** 1911A10-008

**Matrix:** SOIL

**Received Date:** 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	640	60		mg/Kg	20	11/22/2019 10:00:58 PM	48982

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B7 @ Surface -1'

Project: Mariner CTB

Collection Date: 11/18/2019 2:10:00 PM

Lab ID: 1911A10-009

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	1800	60		mg/Kg	20	11/22/2019 10:13:24 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/22/2019 11:53:46 AM	48962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/22/2019 11:53:46 AM	48962
Surr: DNOP	91.6	70-130		%Rec	1	11/22/2019 11:53:46 AM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2019 1:45:49 PM	48947
Surr: BFB	106	77.4-118		%Rec	1	11/22/2019 1:45:49 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/22/2019 1:45:49 PM	48947
Toluene	ND	0.047		mg/Kg	1	11/22/2019 1:45:49 PM	48947
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2019 1:45:49 PM	48947
Xylenes, Total	ND	0.094		mg/Kg	1	11/22/2019 1:45:49 PM	48947
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/22/2019 1:45:49 PM	48947

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

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

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Talon Artesia

Client Sample ID: B8 @ Surface -1'

Project: Mariner CTB

Collection Date: 11/18/2019 2:15:00 PM

Lab ID: 1911A10-010

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	160	59		mg/Kg	20	11/22/2019 10:25:48 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/22/2019 12:03:02 PM	48962
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/22/2019 12:03:02 PM	48962
Surr: DNOP	104	70-130		%Rec	1	11/22/2019 12:03:02 PM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/22/2019 2:09:10 PM	48947
Surr: BFB	107	77.4-118		%Rec	1	11/22/2019 2:09:10 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/22/2019 2:09:10 PM	48947
Toluene	ND	0.048		mg/Kg	1	11/22/2019 2:09:10 PM	48947
Ethylbenzene	ND	0.048		mg/Kg	1	11/22/2019 2:09:10 PM	48947
Xylenes, Total	ND	0.097		mg/Kg	1	11/22/2019 2:09:10 PM	48947
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/22/2019 2:09:10 PM	48947

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

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

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B9 @ Surface -1'

Project: Mariner CTB

Collection Date: 11/18/2019 3:35:00 PM

Lab ID: 1911A10-011

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	2300	60		mg/Kg	20	11/22/2019 10:38:13 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	81	9.2		mg/Kg	1	11/22/2019 12:12:17 PM	48962
Motor Oil Range Organics (MRO)	70	46		mg/Kg	1	11/22/2019 12:12:17 PM	48962
Surr: DNOP	87.5	70-130		%Rec	1	11/22/2019 12:12:17 PM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/22/2019 2:32:29 PM	48947
Surr: BFB	105	77.4-118		%Rec	1	11/22/2019 2:32:29 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/22/2019 2:32:29 PM	48947
Toluene	ND	0.046		mg/Kg	1	11/22/2019 2:32:29 PM	48947
Ethylbenzene	ND	0.046		mg/Kg	1	11/22/2019 2:32:29 PM	48947
Xylenes, Total	ND	0.093		mg/Kg	1	11/22/2019 2:32:29 PM	48947
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	11/22/2019 2:32:29 PM	48947

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

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

**Analytical Report**

Lab Order 1911A10

Date Reported: 11/25/2019

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** B10 @ Surface -1'

**Project:** Mariner CTB

**Collection Date:** 11/18/2019 4:15:00 PM

**Lab ID:** 1911A10-012

**Matrix:** SOIL

**Received Date:** 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	420	61		mg/Kg	20	11/22/2019 11:15:28 PM	48982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	59	9.6		mg/Kg	1	11/22/2019 12:21:28 PM	48962
Motor Oil Range Organics (MRO)	91	48		mg/Kg	1	11/22/2019 12:21:28 PM	48962
Surr: DNOP	88.1	70-130		%Rec	1	11/22/2019 12:21:28 PM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/22/2019 2:55:48 PM	48947
Surr: BFB	99.6	77.4-118		%Rec	1	11/22/2019 2:55:48 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/22/2019 2:55:48 PM	48947
Toluene	ND	0.049		mg/Kg	1	11/22/2019 2:55:48 PM	48947
Ethylbenzene	ND	0.049		mg/Kg	1	11/22/2019 2:55:48 PM	48947
Xylenes, Total	ND	0.099		mg/Kg	1	11/22/2019 2:55:48 PM	48947
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	11/22/2019 2:55:48 PM	48947

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 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

**Analytical Report**

Lab Order **1911A10**

Date Reported: **11/25/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** B4 @ 6ft

**Project:** Mariner CTB

**Collection Date:** 11/18/2019 2:35:00 PM

**Lab ID:** 1911A10-013

**Matrix:** SOIL

**Received Date:** 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	190	60		mg/Kg	20	11/22/2019 11:27:52 PM	48982

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 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

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B11 @ Surface -1'

Project: Mariner CTB

Collection Date: 11/18/2019 4:20:00 PM

Lab ID: 1911A10-014

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	360	61		mg/Kg	20	11/23/2019 12:05:05 AM	48987
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	11	9.4		mg/Kg	1	11/22/2019 12:30:39 PM	48962
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/22/2019 12:30:39 PM	48962
Surr: DNOP	95.5	70-130		%Rec	1	11/22/2019 12:30:39 PM	48962
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/22/2019 4:30:08 PM	48947
Surr: BFB	100	77.4-118		%Rec	1	11/22/2019 4:30:08 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/22/2019 4:30:08 PM	48947
Toluene	ND	0.046		mg/Kg	1	11/22/2019 4:30:08 PM	48947
Ethylbenzene	ND	0.046		mg/Kg	1	11/22/2019 4:30:08 PM	48947
Xylenes, Total	ND	0.092		mg/Kg	1	11/22/2019 4:30:08 PM	48947
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	11/22/2019 4:30:08 PM	48947

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B12 @ Surface-1'

Project: Mariner CTB

Collection Date: 11/18/2019 4:25:00 PM

Lab ID: 1911A10-015

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	1400	60		mg/Kg	20	11/23/2019 12:42:18 AM	48987
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	11/22/2019 1:16:18 PM	48963
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	11/22/2019 1:16:18 PM	48963
Surr: DNOP	105	70-130		%Rec	1	11/22/2019 1:16:18 PM	48963
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/22/2019 4:53:38 PM	48947
Surr: BFB	103	77.4-118		%Rec	1	11/22/2019 4:53:38 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/22/2019 4:53:38 PM	48947
Toluene	ND	0.048		mg/Kg	1	11/22/2019 4:53:38 PM	48947
Ethylbenzene	ND	0.048		mg/Kg	1	11/22/2019 4:53:38 PM	48947
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2019 4:53:38 PM	48947
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	11/22/2019 4:53:38 PM	48947

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Talon Artesia

Client Sample ID: B13 @ 3ft

Project: Mariner CTB

Collection Date: 11/18/2019 4:30:00 PM

Lab ID: 1911A10-016

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	340	60		mg/Kg	20	11/23/2019 1:44:20 AM	48987
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	11/22/2019 1:43:41 PM	48963
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/22/2019 1:43:41 PM	48963
Surr: DNOP	92.6	70-130		%Rec	1	11/22/2019 1:43:41 PM	48963
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2019 5:17:07 PM	48947
Surr: BFB	105	77.4-118		%Rec	1	11/22/2019 5:17:07 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/22/2019 5:17:07 PM	48947
Toluene	ND	0.047		mg/Kg	1	11/22/2019 5:17:07 PM	48947
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2019 5:17:07 PM	48947
Xylenes, Total	ND	0.094		mg/Kg	1	11/22/2019 5:17:07 PM	48947
Surr: 4-Bromofluorobenzene	99.7	80-120		%Rec	1	11/22/2019 5:17:07 PM	48947

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

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

## Analytical Report

Lab Order 1911A10

Date Reported: 11/25/2019

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Talon Artesia

Client Sample ID: B14 @ 4ft

Project: Mariner CTB

Collection Date: 11/18/2019 4:35:00 PM

Lab ID: 1911A10-017

Matrix: SOIL

Received Date: 11/21/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	320	60		mg/Kg	20	11/23/2019 1:56:45 AM	48987
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/22/2019 1:52:48 PM	48963
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/22/2019 1:52:48 PM	48963
Surr: DNOP	91.2	70-130		%Rec	1	11/22/2019 1:52:48 PM	48963
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/22/2019 5:40:25 PM	48947
Surr: BFB	101	77.4-118		%Rec	1	11/22/2019 5:40:25 PM	48947
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/22/2019 5:40:25 PM	48947
Toluene	ND	0.048		mg/Kg	1	11/22/2019 5:40:25 PM	48947
Ethylbenzene	ND	0.048		mg/Kg	1	11/22/2019 5:40:25 PM	48947
Xylenes, Total	ND	0.096		mg/Kg	1	11/22/2019 5:40:25 PM	48947
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	11/22/2019 5:40:25 PM	48947

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A10

25-Nov-19

**Client:** Talon Artesia

**Project:** Mariner CTB

Sample ID: <b>MB-48982</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48982</b>	RunNo: <b>64737</b>								
Prep Date: <b>11/22/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2218326</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-48982</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48982</b>	RunNo: <b>64737</b>								
Prep Date: <b>11/22/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2218327</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Sample ID: <b>MB-48987</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48987</b>	RunNo: <b>64737</b>								
Prep Date: <b>11/22/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2218358</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-48987</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48987</b>	RunNo: <b>64737</b>								
Prep Date: <b>11/22/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2218359</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

**Qualifiers:**

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1911A10

25-Nov-19

**Client:** Talon Artesia**Project:** Mariner CTB

Sample ID: <b>1911A10-015AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>B12 @ Surface-1'</b>	Batch ID: <b>48963</b>	RunNo: <b>64714</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217486</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.5	47.39	2.763	93.6	57	142			
Surr: DNOP	4.2		4.739		89.3	70	130			

Sample ID: <b>LCS-48962</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48962</b>	RunNo: <b>64714</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217487</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.5	63.9	124			
Surr: DNOP	4.4		5.000		88.1	70	130			

Sample ID: <b>LCS-48963</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48963</b>	RunNo: <b>64714</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217489</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	63.9	124			
Surr: DNOP	5.3		5.000		105	70	130			

Sample ID: <b>MB-48962</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48962</b>	RunNo: <b>64714</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217490</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	70	130			

Sample ID: <b>MB-48963</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48963</b>	RunNo: <b>64714</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217491</b>			Units: <b>mg/Kg</b>					
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	11		10.00		105	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  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A10

25-Nov-19

**Client:** Talon Artesia

**Project:** Mariner CTB

Sample ID: <b>1911A10-015AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>B12 @ Surface-1'</b>	Batch ID: <b>48963</b>	RunNo: <b>64714</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2218273</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.3	46.47	2.763	108	57	142	11.6	20	
Surr: DNOP	4.9		4.647		106	70	130	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A10

25-Nov-19

**Client:** Talon Artesia

**Project:** Mariner CTB

Sample ID: <b>MB-48947</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217798</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	77.4	118			

Sample ID: <b>LCS-48947</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217799</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	80	120			
Surr: BFB	1200		1000		121	77.4	118			S

Sample ID: <b>1911A10-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>B1 @ 6ft</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217801</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	4.9	24.44	0	135	69.1	142			
Surr: BFB	1200		977.5		119	77.4	118			S

Sample ID: <b>1911A10-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>B1 @ 6ft</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217802</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.85	0	112	69.1	142	21.6	20	R
Surr: BFB	1100		954.2		112	77.4	118	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A10

25-Nov-19

**Client:** Talon Artesia  
**Project:** Mariner CTB

Sample ID: <b>MB-48947</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217827</b>	Units: <b>mg/Kg</b>							
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: 4-Bromofluorobenzene	0.98		1.000		98.0	80	120			

Sample ID: <b>LCS-48947</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217828</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: <b>1911A10-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>B2 @ 3ft</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217829</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.3	0.097	0.9737	0	130	61.1	124			S
Benzene	1.1	0.024	0.9737	0	114	76	123			
Toluene	1.1	0.049	0.9737	0.01000	115	80.3	127			
Ethylbenzene	1.1	0.049	0.9737	0	117	80.2	131			
Xylenes, Total	3.4	0.097	2.921	0.01545	117	78	133			
Surr: 4-Bromofluorobenzene	0.99		0.9737		101	80	120			

Sample ID: <b>1911A10-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>B2 @ 3ft</b>	Batch ID: <b>48947</b>	RunNo: <b>64724</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217830</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9843	0	110	76	123	2.07	20	
Toluene	1.1	0.049	0.9843	0.01000	111	80.3	127	2.36	20	
Ethylbenzene	1.1	0.049	0.9843	0	113	80.2	131	2.39	20	
Xylenes, Total	3.4	0.098	2.953	0.01545	114	78	133	1.70	20	
Surr: 4-Bromofluorobenzene	0.98		0.9843		100	80	120	0	0	

**Qualifiers:**

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



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

### Sample Log-In Check List

Client Name: **TALON ARTESIA**      Work Order Number: **1011A10**      Rep/No: **1**

Received By: **Yazmine Garduno**      11/21/2019 9:10:00 AM      *Yazmine Garduno*  
 Completed By: **Yazmine Garduno**      11/21/2019 9:56:26 AM      *Yazmine Garduno*  
 Reviewed By: **LB**      11/21/19

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present   
 2. How was the sample delivered?      Courier

**Log In**

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

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: **YG 11/21/19**

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  in Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good				
2	3.0	Good				
3	3.6	Good				

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**Chain-of-Custody Record**

Client: Offices APE  
507 W. Pecos, Artesia  
 Mailing Address:

Turn-Around Time 3day  
 Standard  Rush  
 Project Name: Marathon CTO  
 Project #: 702247-044.01

Phone #: 575-441-0980  
 Email or Fax#: lsp@os@valdowlpe.com  
 OAQ/QC Package: EDarkins@valdowlpe.com  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Project Manager: Rebecca Pons  
 Sampler: Brandon  
 On Ice:  Yes  No  
 # of Coolers: 3  
 Cooler Temperature (including SP): Removal



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMB's (8021)	✓
TPH:8015D(GRO / DRO / MFO)	✓
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
CF, Br, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub>	✓
8260 (VOA)	
8270 (Sem-VOA)	
Total Coliform (Present/Absent)	

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Date	Time
1/18	9:00		B1 @ left	JAR	TEE	-001	1/16/19	0830
1/18	9:30		B2 @ left	JAR	TEE	-002		
1/18	9:30		B3 @ left	JAR		-003		
1/18	2:30		B4 @ Surface	JAR		-004		
1/18	3:20		B5 @ Surface	JAR		-005		
1/17	3:20		B5 @ left	JAR		-004		
✓	4:00		B6 @ Surface-1'	JAR		-007		
✓			B6 @ left	JAR		-008		
✓	2:10		B7 @ Surface-1'	JAR		-004		
✓	2:15		B8 @ Surface-1'	JAR		-010		
✓	3:55		B9 @ Surface-1'	JAR		-011		
✓	4:15		B10 Surface-1'	JAR		-012		

Remarks: Bill Marathon Direct  
APE # CL-19-03070  
Attn: Isaac Castro

Received by: W. Roney Via: 1/16/19 Date: 0830  
 Relinquished by: R. Pons  
 Relinquished by: 1/16/19 Date: 0910

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any subcontracted data will be clearly notated on the analytical report.  
 53-0.3=30  
 23-0.3=30  
 2.0 N. 2.0 V



#2

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109  
Tel. 505-345-3975 Fax 505-345-4107

Turn-Around Time:  3-day  Rush  
 Standard  Rush  
 Project Name: Marmosa Ct O  
 Project #: 702248-044.01  
 Project Manager: Rubina Pinos  
 Sampler: Blind  
 On Ice:  Yes  No  
 # of Coolers: 3  
 Cooler Temp (including on): Remain

Chain-of-Custody Record  
 Client: Salon LPE  
408 W. Texas Artesia  
 Mailing Address:  
 Phone #: 575-441-0970  
 email or Fax#:   
 QA/QC Package:  Level 4 (Full Validation)  
 Standard  Az Compliance  
 Accreditation:  NELAC  Other  
 EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEALTH No	BTEX / MTBE / TMBs (8021)	TPH-8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/18	2:35		B4 @ left	STAR	ICE	-013	✓						✓			
11/18	4:20		B11 @ Super-1	STAR	ICE	-014	✓						✓			
11/18	4:25		B12 @ Super-1	STAR	ICE	-015	✓						✓			
11/18	4:30		B13 @ 3rd	STAR	ICE	-016	✓						✓			
11/18	4:35		B14 @ 4th	STAR	ICE	-017	✓						✓			
			<del>B15 @ 5th</del>													

Analysis Request

Remarks: Bill Macarthon Direct  
AEE 4619.03070  
Rubina Isaac Casillo

Received by: [Signature] Date: 11/20/18 Time: 0850  
 Received by: [Signature] Date: 11/21/18 Time: 0910

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.  
5.3-0.3 = 5.0  
3.3-0.3 = 3.0  
3.9 = 3.6



## Certificate of Analysis Summary 646937

Talon LPE-Artesia, Artesia, NM

Project Name: Mariner Fee 23 28 19 WA #1H

## Project Id:

Contact: David Adkins

Project Location: Carlsbad, NM

Date Received in Lab: Wed 12.18.2019 16:52

Report Date: 12.19.2019 11:07

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	646937-001	646937-002			
	<i>Field Id:</i>	B- 3A 1'	B- 3A 2'			
	<i>Depth:</i>	1- ft	2- ft			
	<i>Matrix:</i>	SOIL	SOIL			
	<i>Sampled:</i>	12.18.2019 16:00	12.18.2019 16:05			
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	12.18.2019 18:00	12.18.2019 18:00			
	<i>Analyzed:</i>	12.19.2019 01:19	12.19.2019 01:38			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Benzene		<0.00202 0.00202	<0.00199 0.00199			
Toluene		<0.00202 0.00202	<0.00199 0.00199			
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199			
m,p-Xylenes		<0.00403 0.00403	<0.00398 0.00398			
o-Xylene		<0.00202 0.00202	<0.00199 0.00199			
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199			
Total BTEX		<0.00202 0.00202	<0.00199 0.00199			
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	12.18.2019 18:35	12.18.2019 18:35			
	<i>Analyzed:</i>	12.19.2019 01:21	12.19.2019 01:27			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Chloride		5030 49.9	4040 49.6			
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	12.18.2019 17:00	12.18.2019 17:00			
	<i>Analyzed:</i>	12.18.2019 22:17	12.18.2019 22:37			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<49.9 49.9			
Diesel Range Organics (DRO)		<49.8 49.8	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<49.9 49.9			
Total TPH		<49.8 49.8	<49.9 49.9			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer  
Project Assistant



# Analytical Report 646937

for

## Talon LPE-Artesia

**Project Manager: David Adkins**

**Mariner Fee 23 28 19 WA #1H**

**12.19.2019**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



12.19.2019

Project Manager: **David Adkins**

**Talon LPE-Artesia**

408 West Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **646937**

**Mariner Fee 23 28 19 WA #1H**

Project Address: Carlsbad, NM

**David Adkins:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 646937. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 646937 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, slightly slanted style.

---

**Jessica Kramer**

Project Assistant

*A Small Business and Minority Company*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



## Sample Cross Reference 646937

### Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B- 3A 1'	S	12.18.2019 16:00	1 ft	646937-001
B- 3A 2'	S	12.18.2019 16:05	2 ft	646937-002
B- 3A 3'	S	12.18.2019 16:10	3 ft	Not Analyzed
B- 3A 4'	S	12.18.2019 16:15	4 ft	Not Analyzed



## CASE NARRATIVE

*Client Name: Talon LPE-Artesia*

*Project Name: Mariner Fee 23 28 19 WA #1H*

Project ID:  
Work Order Number(s): 646937

Report Date: 12.19.2019  
Date Received: 12.18.2019

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3111013 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



### Certificate of Analytical Results 646937

#### Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: <b>B- 3A 1'</b>	Matrix: Soil	Date Received: 12.18.2019 16:52
Lab Sample Id: 646937-001	Date Collected: 12.18.2019 16:00	Sample Depth: 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 12.18.2019 18:35	Basis: Wet Weight
Seq Number: 3111017		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5030	49.9	mg/kg	12.19.2019 01:21		5

Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DTH		% Moisture:
Analyst: DTH	Date Prep: 12.18.2019 17:00	Basis: Wet Weight
Seq Number: 3111026		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.18.2019 22:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.18.2019 22:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.18.2019 22:17	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.18.2019 22:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.18.2019 22:17	
o-Terphenyl	84-15-1	107	%	70-135	12.18.2019 22:17	



## Certificate of Analytical Results 646937

### Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: **B- 3A 1'**  
 Lab Sample Id: 646937-001

Matrix: Soil  
 Date Collected: 12.18.2019 16:00

Date Received: 12.18.2019 16:52  
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 12.18.2019 18:00

Basis: Wet Weight

Seq Number: 3111013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.19.2019 01:19	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.19.2019 01:19	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.19.2019 01:19	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.19.2019 01:19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.19.2019 01:19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.19.2019 01:19	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.19.2019 01:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	12.19.2019 01:19	
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.19.2019 01:19	



## Certificate of Analytical Results 646937

### Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: **B- 3A 2'**  
 Lab Sample Id: 646937-002

Matrix: Soil  
 Date Collected: 12.18.2019 16:05

Date Received: 12.18.2019 16:52  
 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3111017

Date Prep: 12.18.2019 18:35

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<b>4040</b>	49.6	mg/kg	12.19.2019 01:27		5

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3111026

Date Prep: 12.18.2019 17:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.18.2019 22:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.18.2019 22:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.18.2019 22:37	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.18.2019 22:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.18.2019 22:37	
o-Terphenyl	84-15-1	101	%	70-135	12.18.2019 22:37	



## Certificate of Analytical Results 646937

### Talon LPE-Artesia, Artesia, NM

Mariner Fee 23 28 19 WA #1H

Sample Id: **B- 3A 2'**  
 Lab Sample Id: 646937-002

Matrix: Soil  
 Date Collected: 12.18.2019 16:05

Date Received: 12.18.2019 16:52  
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 12.18.2019 18:00

Basis: Wet Weight

Seq Number: 3111013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.19.2019 01:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.19.2019 01:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.19.2019 01:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.19.2019 01:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.19.2019 01:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.19.2019 01:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.19.2019 01:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.19.2019 01:38	
4-Bromofluorobenzene	460-00-4	125	%	70-130	12.19.2019 01:38	





**Talon LPE-Artesia**

Mariner Fee 23 28 19 WA #1H

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111017  
 MB Sample Id: 7692789-1-BLK

Matrix: Solid

LCS Sample Id: 7692789-1-BKS

Prep Method: E300P

Date Prep: 12.18.2019

LCSD Sample Id: 7692789-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	256	102	90-110	0	20	mg/kg	12.18.2019 23:02	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111017  
 Parent Sample Id: 646903-001

Matrix: Soil

MS Sample Id: 646903-001 S

Prep Method: E300P

Date Prep: 12.18.2019

MSD Sample Id: 646903-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	290	200	516	113	530	119	90-110	3	20	mg/kg	12.18.2019 23:20	X

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111017  
 Parent Sample Id: 646903-011

Matrix: Soil

MS Sample Id: 646903-011 S

Prep Method: E300P

Date Prep: 12.18.2019

MSD Sample Id: 646903-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.96	199	216	109	207	104	90-110	4	20	mg/kg	12.19.2019 00:40	

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3111026  
 MB Sample Id: 7692787-1-BLK

Matrix: Solid

LCS Sample Id: 7692787-1-BKS

Prep Method: SW8015P

Date Prep: 12.18.2019

LCSD Sample Id: 7692787-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	909	91	868	87	70-135	5	35	mg/kg	12.18.2019 21:38	
Diesel Range Organics (DRO)	<11.5	1000	782	78	755	76	70-135	4	35	mg/kg	12.18.2019 21:38	

**Surrogate**

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		122		117		70-135	%	12.18.2019 21:38
o-Terphenyl	96		114		106		70-135	%	12.18.2019 21:38

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3111026

Matrix: Solid

MB Sample Id: 7692787-1-BLK

Prep Method: SW8015P

Date Prep: 12.18.2019

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.18.2019 21:18	

MS/MSD Percent Recovery  
 Relative Percent Difference  
 LCS/LCSD Recovery  
 Log Difference

[D] = 100\*(C-A) / B  
 RPD = 200\* | (C-E) / (C+E) |  
 [D] = 100 \* (C) / [B]  
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec



**Talon LPE-Artesia**

Mariner Fee 23 28 19 WA #1H

**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3111026  
Parent Sample Id: 646903-006

Matrix: Soil  
MS Sample Id: 646903-006 S

Prep Method: SW8015P  
Date Prep: 12.18.2019  
MSD Sample Id: 646903-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	827	83	1170	117	70-135	34	35	mg/kg	12.19.2019 08:20	
Diesel Range Organics (DRO)	<11.5	1000	825	83	1100	110	70-135	29	35	mg/kg	12.19.2019 08:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		132		70-135	%	12.19.2019 08:20
o-Terphenyl	107		130		70-135	%	12.19.2019 08:20

**Analytical Method:** BTEX by EPA 8021B

Seq Number: 3111013  
MB Sample Id: 7692788-1-BLK

Matrix: Solid  
LCS Sample Id: 7692788-1-BKS

Prep Method: SW5030B  
Date Prep: 12.18.2019  
LCSD Sample Id: 7692788-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0855	86	0.0762	76	70-130	12	35	mg/kg	12.18.2019 23:18	
Toluene	<0.00200	0.100	0.0879	88	0.0782	78	70-130	12	35	mg/kg	12.18.2019 23:18	
Ethylbenzene	<0.00200	0.100	0.0869	87	0.0773	77	71-129	12	35	mg/kg	12.18.2019 23:18	
m,p-Xylenes	<0.00400	0.200	0.184	92	0.163	82	70-135	12	35	mg/kg	12.18.2019 23:18	
o-Xylene	<0.00200	0.100	0.0934	93	0.0827	83	71-133	12	35	mg/kg	12.18.2019 23:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		100		70-130	%	12.18.2019 23:18
4-Bromofluorobenzene	109		116		113		70-130	%	12.18.2019 23:18

**Analytical Method:** BTEX by EPA 8021B

Seq Number: 3111013  
Parent Sample Id: 646903-006

Matrix: Soil  
MS Sample Id: 646903-006 S

Prep Method: SW5030B  
Date Prep: 12.18.2019  
MSD Sample Id: 646903-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0768	76	0.0766	77	70-130	0	35	mg/kg	12.18.2019 23:37	
Toluene	<0.00202	0.101	0.0783	78	0.0732	73	70-130	7	35	mg/kg	12.18.2019 23:37	
Ethylbenzene	<0.00202	0.101	0.0759	75	0.0752	75	71-129	1	35	mg/kg	12.18.2019 23:37	
m,p-Xylenes	<0.00404	0.202	0.151	75	0.134	67	70-135	12	35	mg/kg	12.18.2019 23:37	X
o-Xylene	<0.00202	0.101	0.0803	80	0.0797	80	71-133	1	35	mg/kg	12.18.2019 23:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		100		70-130	%	12.18.2019 23:37
4-Bromofluorobenzene	109		118		70-130	%	12.18.2019 23:37

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
 Midland TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crashtad, NM (432) 704-5440  
 Phoenix, AZ (480) 385-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 446937

Project Manager:	Rebecca Pons	Bill to: (if different)	Melodie Sanjari
Company Name:	THRU LPE	Company Name:	Martina Oil
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, TX 78220	City, State ZIP:	
Phone:	575-441-0980	Email:	r.pons@thru.lpe.com / dadr@thru.lpe.com
Project Name:	Pariner Fee 23 28 lgrue	Turn Around	
Project Number:		Quote #:	#114
Project Location:	Carlsbad, NM	Rush:	24hr
Sampler's Name:	D. ADKINS	Due Date:	
PO #:			

Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting Level:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>

<b>SAMPLE RECEIPT</b>		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Temperature (°C):	10.0	Thermometer ID			
Received intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Total Containers:	4		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A				

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
B-3A-1'		S	12/18/19	4pm	1'	BTX			
B-3A-2'		S	12/18/19	4:05p	2'	TPH			
B-3A-3'		S	12/18/19	4:10p	3'	TOTAL chlorides			
B-3A-4'		S	12/18/19	4:15p	4'				hold 3'+4' pending results

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  
 1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12/19/19 10:52			2
					4
					6

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.



# XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE-Artesia

Date/ Time Received: 12/18/2019 05:48:54 PM

Work Order #: 646937

Acceptable Temperature Range: 0 - 6 degC  
Air and Metal samples Acceptable Range: Ambient  
Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	10.6	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	Additional cooling began in lab
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 12/18/2019

Checklist reviewed by:

Jessica Kramer

Date: 12/19/2019



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

December 26, 2019

Rebecca Pons  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX:

RE: Mariner CTB

OrderNo.: 1912A74

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 30 sample(s) on 12/20/2019 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order: 1912A74

Date Reported: 12/26/2019

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Lab Order:** 1912A74

**Project:** Mariner CTB

**Lab ID:** 1912A74-001

**Collection Date:** 12/19/2019

**Client Sample ID:** S1 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	1700	60		mg/Kg	20	12/20/2019 4:32:19 PM	49465
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**Lab ID:** 1912A74-002

**Collection Date:** 12/19/2019

**Client Sample ID:** S2 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	2300	150		mg/Kg	50	12/23/2019 10:13:25 AM	49465
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**Lab ID:** 1912A74-003

**Collection Date:** 12/19/2019

**Client Sample ID:** S3 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	94	60		mg/Kg	20	12/20/2019 5:34:20 PM	49465
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**Lab ID:** 1912A74-004

**Collection Date:** 12/19/2019

**Client Sample ID:** S4 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	1000	60		mg/Kg	20	12/20/2019 5:46:45 PM	49465
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**Lab ID:** 1912A74-005

**Collection Date:** 12/19/2019

**Client Sample ID:** S5 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	4200	150		mg/Kg	50	12/23/2019 10:25:46 AM	49465
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order: 1912A74

Date Reported: 12/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab Order: 1912A74

Project: Mariner CTB

Lab ID: 1912A74-006

Collection Date: 12/19/2019

Client Sample ID: S6 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	5000	300		mg/Kg	100	12/23/2019 10:38:06 AM	49465
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Lab ID: 1912A74-007

Collection Date: 12/19/2019

Client Sample ID: S7 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	2200	60		mg/Kg	20	12/20/2019 6:48:45 PM	49465
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Lab ID: 1912A74-008

Collection Date: 12/19/2019

Client Sample ID: S8 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	4800	150		mg/Kg	50	12/23/2019 10:50:27 AM	49465
----------	------	-----	--	-------	----	------------------------	-------

Lab ID: 1912A74-009

Collection Date: 12/19/2019

Client Sample ID: S9 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	4700	300		mg/Kg	100	12/23/2019 11:02:48 AM	49465
----------	------	-----	--	-------	-----	------------------------	-------

Lab ID: 1912A74-010

Collection Date: 12/19/2019

Client Sample ID: S13 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	1700	60		mg/Kg	20	12/20/2019 7:25:59 PM	49465
----------	------	----	--	-------	----	-----------------------	-------

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**

Lab Order: 1912A74

Date Reported: 12/26/2019

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Lab Order:** 1912A74

**Project:** Mariner CTB

**Lab ID:** 1912A74-011

**Collection Date:** 12/19/2019

**Client Sample ID:** S14 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	2000	60		mg/Kg	20	12/20/2019 7:38:23 PM	49465
----------	------	----	--	-------	----	-----------------------	-------

**Lab ID:** 1912A74-012

**Collection Date:** 12/19/2019

**Client Sample ID:** S15 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	8800	300		mg/Kg	100	12/23/2019 11:15:09 AM	49465
----------	------	-----	--	-------	-----	------------------------	-------

**Lab ID:** 1912A74-013

**Collection Date:** 12/19/2019

**Client Sample ID:** S17 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	2300	150		mg/Kg	50	12/23/2019 11:52:10 AM	49465
----------	------	-----	--	-------	----	------------------------	-------

**Lab ID:** 1912A74-014

**Collection Date:** 12/19/2019

**Client Sample ID:** S18 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	3000	150		mg/Kg	50	12/23/2019 12:04:32 PM	49465
----------	------	-----	--	-------	----	------------------------	-------

**Lab ID:** 1912A74-015

**Collection Date:** 12/19/2019

**Client Sample ID:** S19 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	1400	60		mg/Kg	20	12/20/2019 8:28:01 PM	49465
----------	------	----	--	-------	----	-----------------------	-------

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**

Lab Order: 1912A74

Date Reported: 12/26/2019

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Lab Order:** 1912A74

**Project:** Mariner CTB

**Lab ID:** 1912A74-016

**Collection Date:** 12/19/2019

**Client Sample ID:** S20 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	1900	60		mg/Kg	20	12/20/2019 9:05:15 PM	49465
----------	------	----	--	-------	----	-----------------------	-------

**Lab ID:** 1912A74-017

**Collection Date:** 12/19/2019

**Client Sample ID:** S21 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	4900	150		mg/Kg	50	12/23/2019 12:16:52 PM	49465
----------	------	-----	--	-------	----	------------------------	-------

**Lab ID:** 1912A74-018

**Collection Date:** 12/19/2019

**Client Sample ID:** S22 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	8800	300		mg/Kg	100	12/23/2019 12:29:12 PM	49465
----------	------	-----	--	-------	-----	------------------------	-------

**Lab ID:** 1912A74-019

**Collection Date:** 12/19/2019

**Client Sample ID:** S23 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	10000	600		mg/Kg	200	12/23/2019 12:41:33 PM	49465
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**Lab ID:** 1912A74-022

**Collection Date:** 12/19/2019

**Client Sample ID:** S26 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	2600	150		mg/Kg	50	12/23/2019 12:53:54 PM	49465
----------	------	-----	--	-------	----	------------------------	-------

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order: 1912A74

Date Reported: 12/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab Order: 1912A74

Project: Mariner CTB

Lab ID: 1912A74-023

Collection Date: 12/19/2019

Client Sample ID: S27 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	1900	60		mg/Kg	20	12/22/2019 5:41:06 PM	49470
----------	------	----	--	-------	----	-----------------------	-------

Lab ID: 1912A74-024

Collection Date: 12/19/2019

Client Sample ID: S28 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	770	60		mg/Kg	20	12/22/2019 5:53:30 PM	49470
----------	-----	----	--	-------	----	-----------------------	-------

Lab ID: 1912A74-025

Collection Date: 12/19/2019

Client Sample ID: S29 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	180	60		mg/Kg	20	12/22/2019 6:05:55 PM	49470
----------	-----	----	--	-------	----	-----------------------	-------

Lab ID: 1912A74-026

Collection Date: 12/19/2019

Client Sample ID: S30 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	2900	150		mg/Kg	50	12/23/2019 1:06:14 PM	49470
----------	------	-----	--	-------	----	-----------------------	-------

Lab ID: 1912A74-027

Collection Date: 12/19/2019

Client Sample ID: S31 @6"

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	860	60		mg/Kg	20	12/22/2019 6:30:44 PM	49470
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**

Lab Order: 1912A74

Date Reported: 12/26/2019

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Lab Order:** 1912A74

**Project:** Mariner CTB

**Lab ID:** 1912A74-028

**Collection Date:** 12/19/2019

**Client Sample ID:** S32 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	1700	60		mg/Kg	20	12/22/2019 7:07:58 PM	49470
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**Lab ID:** 1912A74-029

**Collection Date:** 12/19/2019

**Client Sample ID:** S33 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	1400	60		mg/Kg	20	12/22/2019 7:20:22 PM	49470
----------	------	----	--	-------	----	-----------------------	-------

**Lab ID:** 1912A74-030

**Collection Date:** 12/19/2019

**Client Sample ID:** S16 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: MRA

Chloride	2300	60		mg/Kg	20	12/22/2019 7:32:47 PM	49470
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1912A74

26-Dec-19

**Client:** Talon Artesia**Project:** Mariner CTB

Sample ID: <b>MB-49465</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49465</b>	RunNo: <b>65334</b>								
Prep Date: <b>12/20/2019</b>	Analysis Date: <b>12/20/2019</b>	SeqNo: <b>2244399</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49465</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49465</b>	RunNo: <b>65334</b>								
Prep Date: <b>12/20/2019</b>	Analysis Date: <b>12/20/2019</b>	SeqNo: <b>2244400</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.8	90	110			

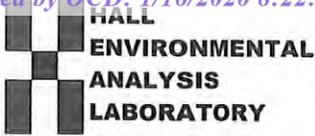
Sample ID: <b>MB-49470</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49470</b>	RunNo: <b>65348</b>								
Prep Date: <b>12/22/2019</b>	Analysis Date: <b>12/22/2019</b>	SeqNo: <b>2244792</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49470</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49470</b>	RunNo: <b>65348</b>								
Prep Date: <b>12/22/2019</b>	Analysis Date: <b>12/22/2019</b>	SeqNo: <b>2244793</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

**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  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



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

# Sample Log-In Check List

Client Name: **TALON ARTESIA**

Work Order Number: **1912A74**

RcptNo: 1

Received By: **Leah Baca** 12/20/2019 9:15:00 AM

*Leah Baca*

Completed By: **Leah Baca** 12/20/2019 9:44:02 AM

*Leah Baca*

Reviewed By: *JD* 12/20/19

**Chain of Custody**

1. Is Chain of Custody sufficiently complete? Yes  No  Not Present   
 2. How was the sample delivered? Courier

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: *ENM 12/20/19*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good				

# Chain-of-Custody Record

Client: Taylor LPE  
608 Texas  
 Mailing Address: Artesia, NM 87010

Phone #: 575-441-0580  
 email or Fax#: ↑ Poursa Taylor LPE. @

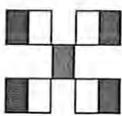
QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: 2 days  
 Standard  Rush  
 Project Name: Murwin CB  
 Project #: \_\_\_\_\_

Project Manager: Rubem Pons  
 Sampler: \_\_\_\_\_  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CP): 3.0 - 5.1 = 2.9

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
✓	12/19		S1 @ 6"	Bag	Ice	-001
✓			S2 @ 6"			-002
✓			S3 U			-003
✓			S4 U			-004
✓			S5 U			-005
✓			S6 U			-006
✓			S7 U			-007
✓			S8 U			-008
✓			S9 U			-009
✓			S13 U			-010
✓			S14 U			-011
✓			S16 U			-012

Relinquished by: R. Pons  
 Date: 12/19 5:18  
 Relinquished by: Chapman  
 Date: 12/19 1900  
 Received by: Chapman  
 Date: 12/19 1730  
 Received by: hdm  
 Date: 12/20 0015



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

BTEX / MTBE / TMB's (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:

### Chain-of-Custody Record

Client: Talon

Turn-Around Time: 24 hr

Standard  Rush

Project Name:

Mailing Address:

Project #:

Phone #: 575-441-0950

email or Fax#:

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Project Manager:

Sampler:

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 30-8F = 2.9 (°C)

Container Type and #

Preservative Type

HEAL No.

1912A74

-013

-014

-015

-016

-017

-018

-019

-020

-021

-022

-023

-024

Date: 12/19

Time: 5:30

Relinquished by: P. Pena

Received by: Chapman

Date: 12/19

Time: 17:00

Remarks:

Date: 12/19

Time: 1900

Relinquished by: Chapman

Received by: Chapman

Date: 12/19

Time: 0915

### Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

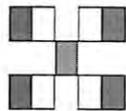
RCRA 8 Metals

☑ F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Chain-of-Custody Record

Client: Talon

Mailing Address:

Phone #: 575-441-0980

email or Fax#:

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Turn-Around Time: 24 hr

Standard  Rush

Project Name:

Project #:

Project Manager:

Sampler:

On Ice:  Yes  No

# of Coolers:

Cooler Temp (including CF): (°C)

Container Type and #

Preservative Type

HEAL No.

Temperature (°C)

12/19

829

830

831

832

833

816

FCC

1917A74

-025

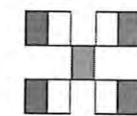
-026

-027

-028

-029

-030



### HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

#### Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	G, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
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Remarks:

Received by: Chapman Date: 1/19/20 Time: 1700

Relinquished by: RPONS Date: 1/19/20 Time: 550

Received by: Chapman Date: 1/19/20 Time: 1900

Relinquished by: Chapman



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

January 13, 2020

Rebecca Pons  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX

RE: Mariner Can

OrderNo.: 1912B49

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/21/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 26, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order: **1912B49**

Date Reported: **1/13/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Lab Order:** 1912B49

**Project:** Mariner Can

**Lab ID:** 1912B49-001

**Collection Date:** 12/20/2019 2:35:00 PM

**Client Sample ID:** S24 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: **MRA**

Chloride	7000	300		mg/Kg	100	12/23/2019 9:36:23 AM	49470
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**Lab ID:** 1912B49-002

**Collection Date:** 12/20/2019 2:45:00 PM

**Client Sample ID:** S25 @6"

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: **MRA**

Chloride	3900	150		mg/Kg	50	12/23/2019 9:48:43 AM	49470
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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 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

**QC SUMMARY REPORT**

WO#: 1912B49

**Hall Environmental Analysis Laboratory, Inc.**

13-Jan-20

**Client:** Talon Artesia**Project:** Mariner Can

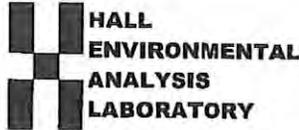
Sample ID: <b>MB-49470</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49470</b>	RunNo: <b>65348</b>								
Prep Date: <b>12/22/2019</b>	Analysis Date: <b>12/22/2019</b>	SeqNo: <b>2244792</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49470</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49470</b>	RunNo: <b>65348</b>								
Prep Date: <b>12/22/2019</b>	Analysis Date: <b>12/22/2019</b>	SeqNo: <b>2244793</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

**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  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



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

### Sample Log-In Check List

Client Name: **TALON ARTESIA**

Work Order Number: **1912B49**

RcptNo: 1

Received By: **Yazmine Garduno**

12/21/2019 9:30:00 AM

*Yazmine Garduno*

Completed By: **Yazmine Garduno**

12/21/2019 10:12:49 AM

*Yazmine Garduno*

Reviewed By: **MA 12/21/19**

**Chain of Custody**

1. Is Chain of Custody sufficiently complete? Yes  No  Not Present
2. How was the sample delivered? Courier

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: **YG 12/21/19**

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good				



Liner Integrity Inspection (Photos Attached)

Date: 12/18/2019

Facility: Mariner<sup>Fee</sup> 23 28 19 #1A

48 Hour Notification Given On: 12/16/2019

Responsible party has visually inspected the liner  Y/N

Liner remains intact  Y/N

Liner had the ability to contain the leak in question:  Y/N

Notes:  
tanks/seperators pressure washed as well.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Company Representative(s)  
Melodie Sanjani MS \_\_\_\_\_  
\_\_\_\_\_



