<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	State of New Mexico N Energy Minerals and Natural Resources		A 13	CONSERV		Form C-141 ed April 3, 2017
811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conservation Division			Stubin t BC20170 appropriate District Office in accordance with 19.15.29 NMAC.		
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 South St. Francis Dr.			RECEIVED		
		Fe, NM 8750:	5			
Release Notification and Corrective Action NAB 12635196 OPERATOR Initial Report Final Report						
Name of Company Marathon Oil Permian L	IC 372008	Contact Jennif	and the second	🛛 Initial	Report	Final Report
Address 5555 San Felipe Street, Houston, T		Telephone No. 713-296-2500 (office)				
Facility Name Shugart West 19 Federal #2 Facility Type Salt water disposal well						
Surface Owner BLM	BLM	API No. 30-015-30501				
LOCATION OF RELEASE						
Unit LetterSectionTownshipRangeO1918S31E	Feet from the Nor 660	th/South Line	Feet from the Ea	st/West Line East	Cour Edd	v
				Lust		. <u>y</u>
Latitude 32.7275543 Longitude -103.9065552 NAD83						
Type of Release Produced water	NATUR	E OF RELEA	ASE elease 55 bbls	Volume Pr	covered 15 bbls	
Source of Release Injection pump	Date and Hou	ur of Occurrence	nce Date and Hour of Discovery			
Was Immediate Notice Given?		9/11/2017 9/11/2017 8:40 PM CDST If YES, To Whom? 9/11/2017 8:40 PM CDST				
Yes						
By Whom? Wendy Gram	Date and Hour 9/11/2017 approximately 2:45 PM CDST					
Was a Watercourse Reached?			If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					- <u>Dr</u>	
Describe Cause of Problem and Remedial Action Taken.* Approximately 55 bbls spilled from the injection pump with a bad ball valve. The wells were shut in from initial 5 bbl release, but tanks were not isolated, allowing fluid to be pushed through the system and out bad ball valve on injection pump. This occurred at the Shugart West 19 Federal 1 well site on Friday, September 11 th . The tanks were isolated and a vacuum truck was contacted to pick up standing fluid with 15 bbls were recovered with the vacuum truck.						
The facility earthen berm held fluid with no breaches. This is an unlined facility, so saturated soil will immediately be removed and disposed at a NMOCD approved facility. The area will not be backfilled. A corrective action plan will submitted to the NMOCD and BLM for approval.						
I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptanc should their operations have failed to adequately or the environment. In addition, NMOCD accep federal, state, or local laws and/or regulations.	d/or file certain release e of a C-141 report by investigate and remedi	notifications and the NMOCD mar iate contamination	perform corrective ked as "Final Report that pose a threat t	actions for relea rt" does not relie to ground water,	ases which may e eve the operator of surface water, h	endanger of liability uman health
Jennífer Van Curen		OIL CONSERVATION DIVISION				
Signature:	all y					
Printed Name: Jennifer Van Curen	Approved by Environniental Specialist / Drawnice			CARTEN/Cott	P 0	
Title: Sr. Regulatory Compliance		Approval Date:	9/19/17	Expiration I	Date: N/A	
E-mail Address: jvancuren@marathonoil.com		Conditions of A	Approval:			
Date: September 13, 2017 Phone: 832-480-1740 (cell) 713-296-2500 (c	office)		See attac	hed	Attached D	14D4
* Attach Additional Sheets If Necessary			 		•	

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Operator/Responsible Party,

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It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District $\frac{2}{2}$ office in <u>ARTESIA</u> on or before <u>10/13/2017</u>. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

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

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

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

• Composite sampling is not generally allowed.

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

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

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

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

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

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

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From:	Van Curen, Jennifer (MRO) <jvancuren@marathonoil.com></jvancuren@marathonoil.com>
Sent:	Wednesday, September 13, 2017 9:13 AM
То:	Weaver, Crystal, EMNRD; stucker@blm.gov
Cc:	Bratcher, Mike, EMNRD; Griswold, Jim, EMNRD; Billings, Bradford, EMNRD; Peacock, Paul (MRO)
Subject:	Shugart west 19 federal 2 SWD
Attachments:	C-141 Form Marathon Oil 2017 09 08 Shugart West 19 Federal 55 bbls.doc; C-141 Form Marathon Oil 2017 09 08 Shugart West 19 Federal #2 5 bbls.doc

Crystal and Shelly,

Please find the C-141 for the two releases on the Shugart West 19 Federal 2 attached. If you have any questions, please let me know. Thanks

Jennifer Van Curen Sr. Regulatory Compliance Marathon Oil Permian LLC. Marathon Oil Company

5555 San Felipe Street Houston, TX 77056 <u>jvancuren@marathonoil.com</u> (713) 296-2500