District I	District I					f New Mexico ARTESIA DISTRICT																	
1625 N. French Dr., Hobbs, NM 88240 District II			For						Form C-141 1 April 3, 2017														
811 S. First St., Artesia, NM 88210 District III				Oil Conservation Division Submit 1 Copy to appropriate District						rict Office in													
1000 Rio Brazos Road, Aztec, NM 87410 District IV			1220 South St. Francis Dr. RECEIVED																				
1220 S. St. Francis Dr., Santa Fe, NM 87505				anta F	a Fe, NM 87505																		
FAB1736133556 Release Notification and Corrective Action																							
NAB 1736 133674					OPERATOR Initial Report Final Report																		
Name of Company: COG Operating, LLC (OGRID# 229137) Address: 600 West Illinois Avenue, Midland TX 79701					Contact: Robert McNeill Telephone No.: 432-683-7443																		
Facility Name: Marsh Owl CTB					Facility Type: Central Tank Battery																		
Surface Owner: BLM Mineral Ow					er: API No.:																		
LOCATION OF RELEASE																							
Unit Letter Section Township Range Fee			Feet from the		n/South Line	Feet from the	n the East/West Line County																
<u> </u>	268	<u>26E</u>		L		l				Eddy	, 												
Latitude: 32.045226 Longitude:-104.245834 NAD83																							
NATURE OF RELEASE																							
Type of Release: Produced Water					Volume of Release: Volume Recovered: 12bbls 11.5bbls																		
Source of Release: Fitting					Date and I 12/19/201	Hour of Occurren 7																	
Was Immediate Notice Given?					d If YES, To Whom?																		
By Whom?					Date and Hour:																		
Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse.																		
If a Watercourse was Imp	acted, Descr	ibe Fully.*	¢						<u></u>														
Describe Cause of Proble		dial Anti-																					
A hole developed in a 3" 45-degree fitting. The fitting was replaced. Describe Area Affected and Cleanup Action Taken.*																							
All of the fluid remained inside of the lined containment. A vacuum truck was dispatched to recover all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.																							
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 NMOCD rules and																							
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability																							
should their operations ha	we failed to	adequately	investigate and	remedia	ate contaminat	ion that pose a th	reat to g	round wate	r, surface w	ater, hu	man health												
or the environment. In ac federal, state, or local law			tance of a C-141	report	does not relie	ve the operator of	respons		compliance	with any	other												
			OIL CONSERVATION DIVISION																				
Signature: Sheldon Juitan Printed Name: Sheldon L. Hitchcock					Approved by Environmental Specialist:																		
												Title: HSE Coordinator					Approval Date: 12 2617 Expiration Date: N/A						
												E-mail Address: slhitchcock@concho.com Date: 12/20/2017 Phone: 575-746-2010					Conditions of Approval: See attached 20,4533						
* Attach Additional Sheets If Necessary																							
12/22/17AB																							

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/20/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>ARP 4533</u> has been assigned. **Please refer to this case number in all future correspondence.**

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 II office in Artesia on or before 1/20/18. 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

Weaver, Crystal, EMNRD

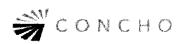
From:	Sheldon Hitchcock <slhitchcock@concho.com></slhitchcock@concho.com>				
Sent:	Wednesday, December 20, 2017 12:38 PM				
То:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD; stucker@blm.gov;				
	James_Amos@blm.gov				
Cc:	Robert McNeill; Rebecca Haskell; Dakota Neel; Christopher Gray; HSE-Environmental				
Subject:	(C-141 Initial) Marsh Owl Centeral Tank Battery 12/19/2017				
Attachments:	(C-141 Initial) Marsh Owl CTB 12-19-2017.pdf				

Ms. Weaver/Ms. Tucker,

Please find the attached C-141 for your consideration. Please let me know if you have any questions or concerns.

Thank you,

Sheldon L. Hitchcock HSE Coordinator COG Operating LLC 2407 Pecos Avenue | Artesia. NM 88210 Cell: 575-703-6475 | Office: 575-746-2010 shitchcock@concho.com



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