



Conoco Phillips
James E Upper Battery

Introduction

This report presents the results of remediation activities at the James E Upper Battery. The site is located in Section 12, Township 22S, Range 30E in Eddy County, New Mexico. Impacted areas are owned by Bureau of Land Management. Diamondback Disposal Services, Inc. (Diamondback) was contacted January 4, 2013 by Mr. Justin Wright, of Conoco Phillips Inc, to perform the remediation activities at the spill site. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations. The following sections present: an overview, remediation activities, and recommendations of all remediation work performed on site.

Overview

The spill site is located mostly on federal land consisting of good grass, prairie, or range lands with a little ponding on COPC location. Approximately 18 bbls of oil and 5bbls of produced water were lost, with approximately 16 bbls and 4 bbls respectively, being recovered from the use of a vacuum truck. Approximately 1,410 square feet of location was impacted as well as 6,332 square feet of pasture land. The depth to groundwater in the area is estimated to be greater than 300' below ground surface (BGS) based on the information, reviewed at the State Engineers web site. There were no water courses affected, no water wells within 1,000 feet, and no surface water bodies within 1,000 feet of the site, giving this site a ranking criteria score of zero. The potential contaminates of concern are mid to high-level concentrations of petroleum-based hydrocarbons and chlorides that were lost due to production equipment failures.

Remediation Activities

On January 23, 2013 Diamondback began excavating impacted areas defined by ground staining and ponding. The excavation is approximately 3 feet in depth where a caliche layer was encountered. Approximately 880 cy of impacted soils were excavated and transported to R-360's NMOCD approved facility. Diamondback then contacted Mr. Mike Bratcher with NMOCD for approval to sample excavated area. Composite samples of the walls and floor were collected from four different sections (see attached map), packaged and sent to Cardinal Laboratory (with COC) for analysis of TPH, BTEX, and Chlorides (see analytical).

Recommendations

Upon reviewing the analytical provided by the third party independent lab, it is our belief the contaminants shown to be left are related to the legacy reserve pit associated with drilling of well. Diamondback feels all guidelines for remediation of leaks and spills have been met. This being said we propose to backfill the excavated area with clean granular soil, contour, crown and seed area to promote vegetation growth. Diamondback feels this method will significantly reduce migration of impacted material, related to the tank overflow, through the vadose zone therefore leaving the site in a manner that will pose very little if any future environmental threat.







