



April 2, 2018

Mr. Kyle Waggoner
Whiting Oil and Gas Corporation
208 Racquette Drive
Fort Collins, Colorado 80524

**RE: Confirmation Sampling
Horsetail 07 East CPB
Weld County, Colorado
Project # 701530.124.01**

Mr. Waggoner:

From January 3-11, 2018, Talon/LPE conducted confirmation soil sampling at the Horsetail 07 East CPB (Site) in Weld County, Colorado. The purpose of the sampling events was to ensure that all hydrocarbon impacted soils had been removed to the extent required by the Colorado Oil and Gas Conservation Commission (COGCC) following cleanup activities of a crude oil release. The Site is identified by the COGCC as Spill/Release Point IDs 453634.

On January 3 & 8, 2018, a total of twelve (12) grab samples (SS-1 through SS-12) were collected from impacted areas on the pad which had been scraped following the crude oil release. A site map with the sample locations is presented in Figure 1.

The collected samples were analyzed for Total Petroleum Hydrocarbons (TPH) via Gasoline Range Organics (GRO) method EPA8260B and Diesel Range Organics (DRO) method 8015, and for Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX) via method EPA8260B at Summit Scientific (Summit) in Golden, Colorado. All samples, with the exception of sample SS-11, exhibited analytical results for TPH and BTEX below COGCC Table 910-1 regulatory levels. Sample SS-11 @ 2" exhibited BTEX concentration levels below COGCC Table 910-1 concentration levels, but it exhibited a TPH concentration of 760 mg/kg which is above the COGCC Table 910-1 threshold for TPH. A soil concentration map is presented in Figures 2, a topographic map is presented in Figure 3, and a breakdown of the soil analytical data is presented in Table 1.

Based on the collected analytical data, further excavation was performed by Whiting contractors in the immediate area of sample SS-11 to remove any residual impacted



soils. On January 11, 2018, Talon/LPE conducted additional soil confirmation sampling to confirm the remaining areas of impact had been removed. One (1) grab sample (SS-11 @ 6") was collected and analyzed for BTEX and TPH at Summit. Analytical results for BTEX and TPH in the sample were reported to be below laboratory detection limits.

Following the excavations, Whiting contractors transported and disposed the excavated stockpile material at an approved landfill facility. Clean soil was then brought in to the Site to backfill the excavated areas.

Based upon the collected analytical data, Talon/LPE believes that no further corrective action is necessary due to analytical results being less than COGCC Table 910-1 concentration levels. If you have any questions or comments, please do not hesitate to call me at (970) 818-5330.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Colby Sterling".

Colby Sterling
District Manager
Talon/LPE