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Memorandum

From: Steve Willis
To: Wayne Miller
Date: June 14, 2016
Subject: Site visit to observe EBR well drilling activities at Former Williams AFB Site ST012.

Wayne:

This memo summarizes my visit to Site ST012 conducted on June 14, 2016.

I arrived at the site at approximately 2:00 pm. Drilling was in progress at wells UWBZ36 and CZ22/UWBZ35 on Avoca Ave. west of the site.

- UWBZ36 was at 170′. Cuttings to 170′ did not exhibit evidence of contamination. PID = 2 ppm @ 170′.
- UWBZ36 170′ – 180′. Cuttings were generally silty to gravelly sand and appeared stained with an organic odor. No hydrocarbon odor.
- UWBZ36 180′ – 190′. Cuttings were silty to clayey sand. A PID reading @ 185′ was 25 ppm. There was a slight hydrocarbon odor at 189′-190′, PID = 290 ppm, and negative dye test. Based on the negative dye test, the boring was ended at 190′.
- CZ22/UWBZ35 0′-130′. No evidence of contamination was noted in vadose zone cuttings to 130′.

I asked AMEC field personnel about the reported LNAPL observations in wells LSZ37, LSZ38, and LSZ39. Garrett confirmed that the liquid removed was almost entirely LNAPL, with a small amount of bioemulsion. I asked if any LNAPL had been detected in wells LSZ49 and LSZ50 on the Army property. Garrett stated that he was unaware of any measurements in those wells, so I requested that they be checked. The AMEC field crew subsequently checked the wells with an interface probe and did not detect any LNAPL layer in either well. Depth to water was 145.67′ and 145.26′ in wells LSZ49 and LSZ50, respectively. However, AMEC field personnel

could not confirm if these wells had been developed yet.

I also asked Garrett if LNAPL had been detected following completion of wells LSZ45 and LSZ46 east of Sossaman Rd. LNAPL was not detected in LSZ45 during interface probe measurements on 6/13. Depth to water was 151.91'. A thin (0.06') LNAPL layer was detected with the interface probe in well LSZ46. Depth to LNAPL was 148.09' and depth to water was 148.15'.

Drilling of well CZ22/UWBZ35 and construction of well UWBZ36 will continue on 6/15. One additional well will be drilled east of Sossaman Rd., likely starting on Friday 6/17. Due to forecasted temperatures in the 115-120° range, AMEC may drill that well at night.

Please contact me if you have comments or questions regarding this memo.

Thank you,

SITE PHOTOS

Photo 1. Drilling well UWBZ36.

Photo 2. Drill cuttings from well UWBZ36 at 174′ – 178′. Silty to gravelly sand and dark staining. Cuttings in this interval had an organic odor.

Photo 3. Negative dye test result on UWBZ36 drill cuttings at 189'-190'.

Photo 4. Drilling at well CZ22/UWBZ35