

Daily Report 11/11/13

Tetra Tech

This report covers work completed 11/08/13 through 11/10/2013.

Directive #1 – Indoor Air

- Draft Concept Plan for phased approach to indoor air monitoring plus installation of alarm systems and ventilation systems was submitted to DNR on 12/13/12 for comments; the detailed Work Plan was submitted to DNR on 1/14/13 for comments.
- Installed one set of detectors at a residence. The new totals: 95.5 sets at 45 locations (note, only one member of the H2s/LEL pair is currently installed at one of the locations). No positive alarms have occurred to date for either % LEL or H2S.
- A total of ten monitoring pairs and associated transmitters have been provided to Assumption Parish, at their request.
- Continued monthly monitor calibration.
- Completed visual inspection and maintenance of the under slab ventilation systems. Liquids found in the systems were removed and transported to the TBC frac tank.

Plan for today:

- Continue monthly monitor calibration.
- Continue indoor air screening.
- Continue in-home air monitoring of TBC properties.
- Monitor ventilation systems.

Directive #2 – Additional Relief Wells and Directive #3 – Overall Plan

- Met with DNR/Shaw on 1/24/13; reached agreement on well designs.
- Radius of Influence (ROI) wells are installed at well pads ORW-5 & ORW-9.
- The field portion of ROI testing was completed July 21st. Report is being finalized.
- Completed daily ORW well data collection.
- WHE sonic crew completed MRAA-04D, north berm (Pisani oversight); crew demobilized,

Plan for Today:

- Complete daily ORW well data collection.

Directive #4 – Operation of All Wells

- Flares #2, #3, #4, #5, and #6 are operating. One additional flare, and a trailer-mounted backup flare, are available as needed. TBC Flare #1 will require insulation repair prior to being put into service.
- Well work overs are ongoing for all low-producing and non-flowing wells.
- Barton meters have been installed on flowing wells; performed routine maintenance.
- Performed daily flare operation and maintenance.
- Performed daily relief well operation and maintenance.
- Boudreaux Electric pulled cable and installed a receptacle near OGRW-1. The portable air compressor was replaced with an electric air compressor to operate the QED air lift water pump.
- Performed pilot testing at ORW-40. Annulus pressure increased from zero to 40.0 psi; water level in the tubing initially went to 30.21 feet. After removing 85 gallons, and with the well head pressure at 40.0 psi, opened the well to the flare.
- Relocated the portable air compressor from OGRW-1 to ORW-40; rebuilt the spill containment.
- Removed the air lift QED water pump and installed a nitrogen lift pump at ORW-10. Well head pressure started at zero. 300 Gallons of water were removed and transferred to the frac tank; water level in the tubing dropped to 55 feet; well head pressure increased to 4.0 psi.

Plan for Today:

- Perform daily flare, Barton meter, generator, and compressor maintenance.
- Continue pilot test at ORW-40.

Directive #5 – Sinkhole Containment

- Submitted Joint Application to OCM and COE, which included sinkhole containment design and additional ORW wells, on 2/14/13.
- Initial containment of the sinkhole area was completed.
- A pre-construction meeting was held on-site on March 27th for TBC and contractors.
- Construction of the containment system began April 1st.
- The current configuration of the sinkhole containment system is completed.
- Inspected the south berm: noted evidence of continued subsidence.
- Miller Engineers surveyed settlement plates.

Plan for Today

- Inspect cracks on the south berm.