

Daily Report 12/20/13

Tetra Tech

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 a total of 98 detectors at 45 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 daily 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 monitor calibration.
- Continue indoor air monitoring.
- Continue ventilation system operation, maintenance, and monitoring.

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

- 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 and ORW-9.
- The field portion of ROI testing was completed July 21st. Report is being finalized.

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.
- Installed a transducer at ORW-48: began recording at 1600 hours.
- Continued to depressurize ORW-54. Removed 127 gallons of water from the separator; pressure continues to range between 11 and 13 psi.

- Installed Redi-flo-2 electric pump in ORW-1. Dewatered the well; starting conditions: well head pressure 13 psi well head (pressure built up overnight); water level 12.88 ft bgs. Pumped 225 gallons over 40 minutes; ending conditions: well head pressure 4 psi; water level 85.74 ft bgs (pump intake set at approximately 83 ft bgs).
- Installed Redi-flo-2 electric pump in ORW-2. Dewatered the well; starting conditions: well head pressure 0 psi; water level: 18.39 ft bgs. Pumped 230 gallons over 45 minutes; ending conditions: well head pressure 0 psi; water level 81.06 ft bgs (pump intake is set at approximately 83 ft bgs).
- Dewatered ORW-39; starting conditions: well head pressure: 0 psi; water level: 13.88 ft bgs. Pumped 240 gallons over 5 hours; ending conditions: wellhead pressure: 17 psi; water level was not measured due to pressure in the drop tube.
- Performed “bucket Test” at ORW-39: pump is producing 1.7 gpm; counter: 1 gallon = 18 clicks.
- Installed AP-2 (short) pump at ORW-24. Dewatered the well; starting conditions: well head pressure 16 psi; water level 9.7 ft bgs. Pumped 90 gallons over 1 hour; ending conditions: well head pressure: 14 psi; water level 64.15 ft bgs.
- Dewatered ORW-22; starting conditions: well head pressure: 18 psi; water level 12.14 ft bgs. Pumped 140 gallons over 2 hours; ending conditions: well head pressure: 25 psi; water level: 81.74 ft bgs.
- Replaced failed air compressor at OGRW-1.

Plan for today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue dewatering schedule (ORW-15).

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.
- Water surface elevations were not taken due to Code 3 conditions.

Plan for today:

- Inspect berm.