



Daily Report 02/19/14

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 90 detectors at 41 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 storage tank located at ORW-22.

Plan for today:

- Continue monitor calibration.
- 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.
- Continued preparation for ORW-21 Pump test.
- Prepared hoses, fittings, pumps, storage systems for Phase 3A dewatering.

Plan for today:

- Continue preparation for ORW-21 pump test.
- Continue preparing infrastructure for well dewatering south of Hwy 70.

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.
- Monitored pressure at the PVW wells; assisted CB&I in taking a gas sample at PVW-03. CB & I also requested a sample from PVW-02; closed the flow valve to build pressure overnight.
- Increased choke positions slightly on ORW-18, 46, 52, 53, 54, 55, 56, 57, and 58.
- Removed QED AP-2 pump and transducer at ORW-39; installed RediFlo-2 pump and transducer in ORW-39.

Plan for today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue well dewatering.
- Assist CB&I with gas sampling at PVW-02.

Directive #5 – Sinkhole Containment

- Submitted original sinkhole containment design in Joint Application to OCM and COE on 2/14/13.
- A pre-construction meeting for the original containment system was held on-site on 3/14/13 for TBC and contractors.
- Construction of the original sinkhole containment system began 4/1/13; construction was completed 9/23/13.
- During late October 2013 and mid-December 2013, cracks and a drop in elevation occurred along the southern levee of the original containment system. Increased seismic activity was also noted at these times.
- During the week of January 6th, 2014 a new Emergency Use Authorization was submitted and approved for constructing a new southern levee approximately 500 to 1300 feet south of the southern levee of the original containment system.

New South Containment Levee

- Construction of the new south containment levee began on 1/8/2014. Tree clearing for this new levee was completed January 15, 2014. The construction of the new south containment levee is anticipated to be completed in April 2014.
- The full extent of the new southern containment levee (i.e. initial containment) was completed (2/14/14).
- Added a third measurement point to the daily surface water elevation measurements. This third measurement point is located near the southwest corner of the original south containment levee and represents the water elevation in the intermediate area between the original southern containment levee and the new southern containment levee.
- Used laser sight to measure the following surface water elevations:
 - 1) Bayou (i.e. outside the new southern containment levee): 1.3 ft above mean sea level (AMSL)



- 2) Intermediate area between the old and new southern containment levees: 1.2 ft AMSL
 - 3) Inside the original containment levee: 0.5 ft AMSL.
- Rock's Trucking imported and placed 2480 cubic yards of sand to build up the new southern containment levee to the design elevation, and completed an additional 199 linear feet of levee between Pad-10 and Pad-9.
 - Miller Engineers surveyed elevations on the new south berm, and completed regularly scheduled survey activities.

Plan for today:

- Rock's Trucking import sand, construct levee between Pad-9 and Pad-10, and build up new southern containment levee to the design elevation.