

**Daily Report 11/13/13****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 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.
- WHE sonic rig (track-mounted) drilled deep well for MRAA-08.
- WHE sonic rig (truck) completed the MRAA-05 deep well, and mobilized equipment to the Triche property for PMW-18.
- Met with WHE, DNR and CB&I to discuss location for PMW-18.
- Met with WHE and Seth Mixson, Mission Utility Services, to lay out proposed horizontal boring locations on Sportsman's Drive.

## Plan for Today:

- WHE mobilize to PMW-18 (Triche property).
- WHE sonic (truck) begin PMW-18.
- WHE sonic (track) continue with MRAA wells.

#### **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.
- Completed daily ORW well data collection.
- Increased the flow rate at ORW-39.
- Performed pilot testing at ORW-40; monitored pressures, water levels, and flow rates. Performed “bucket test” to confirm flow rate of the QED pump: 2 quarts per minute. Periodically checked water levels throughout the day: average 31 feet; well head pressure: 17.0 psi.
- Performed “bucket test” at OGRW-1: flow rate is 1.25 gpm.
- Performed dewatering/logging at ORW-10. Beginning water level: 8.13’; wellhead pressure: 9.0 psi. Ending water level: 41.14’, wellhead pressure: 30.0 psi. Transferred 300 gallons of water to the frac tank.
- At ORW-43, removed the transducer, installed QED pump, and re-installed the transducer. We will complete dewatering and logging today.
- Rock’s Trucking removed board mats on the access road on the Triche property, laid down geotextile and placed limestone to complete the access road.
- The two Baker pumps were started to continue transferring water into the containment area; turned off at the end of the shift.

#### **Plan for Today:**

- Perform daily flare, Barton meter, generator, and compressor maintenance.
- Monitor ORW-40 pumping test.
- Dewatering at ORW-10; bring on-line to the flare.
- Dewater and log ORW-43.

#### **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 north, west, and south berm: noted evidence of continued subsidence of south berm.
- Miller Engineers surveyed settlement plates.

#### Plan for Today

- Inspect berm.