

Daily Report 11/19/13**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.
- Established Health and Safety controls for work in the Sportsman's Drive area, including installation of area RAE Systems gas monitors, set up of 100-ft exclusion zone, and set up of wind sock wind direction monitoring. Monitored ambient air in the drilling area and exclusion zone with a 5-gas meter on a 15 minute cycle: no levels of H₂S or LEL were registered.
- Mission Utility Service completed the installation of the infrastructure piping for wells ORW-49 and 50 in the Sportsman's Drive area. Completed all HDPE connections and installed valve boxes. Work area surfaces were completed to a rough grade.
- Solicited and received verbal variance from Travis Williams for changing coring protocol to minimize gas kick risk at ORW-49 and ORW-50.
- WHE completed Day 1 of a scheduled 2-day ORW installation at ORW-49 in Sportsman's Landing. Work was uneventful; no gas kicks were noted.
- Performed continuous monitoring of the perimeter breathing zone: no H₂S or LEL detections noted.

- Thompson Engineering mobilized to set up and drill CPT-120. Performed an initial sweep of the area with the MSA gas meter: no detections. After grouting was complete and all the rods were pulled from the hole, grout splatter was noted indicating blowout was occurring. Thompson placed rods back down the hole to the total depth, additional grout was placed, and the blowout was stopped. Monitoring of the area with an MSA unit before, during, and after the drilling, blowout, and grouting process revealed no detections.
- Rock's Trucking crew removed an empty shed and dead tree on the property at 1413 Sauce Piquante to allow for rig access to the CPT location.

Plan for Today:

- WHE sonic (track) rig continue with MRAA wells.
- Mission Utility Service construct well infrastructure on Sportsman's Drive.
- WHE sonic (truck) complete the installation at ORW-49.
- Thompson Engineering CPT to mobilize to CPT-99 location.
- Fauchoux swamp excavator to clear/prepare locations on the bayou for CPT-121, 122 & 123.

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.
- Prepared a well head flange for Grundfos electric pump at ORW-43; installed pump and began dewatering.
- Dewatered ORW-10: removed 300 gallons; well head pressure at 10 psi.
- Assembled all fittings and connections on the emergency flare and separator; relocated both to the field adjacent to the Command Center.

Plan for Today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue dewatering at ORW-10.

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 south berm.
- Miller Engineers surveyed settlement plates.
- Rock's Trucking operated the Baker pumps.

Plan for Today

- Inspect berm.