

Daily Report – for 4/23/13

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 and the detailed Work Plan was submitted to DNR on 1/14/13 for comments
- A total of 96 monitor pairs have been installed on 45 properties. No positive alarms of installed monitor pairs have occurred to date.
- Under structure sampling probes have been installed at 10 residential properties. Laboratory samples have been collected at seven probe locations and are undergoing analysis. Vapor concentrations were observed to be decreasing and exceed 25% LEL at one location as of late last week
- Indoor air screening continuing, with 40 properties surveyed to date with no detections of %LEL or H2S.
- A total of 5 monitor pairs are available for installation, with 17 additional monitor pairs on order. A partial order is scheduled to ship from the manufacturer on May 1.
- Monthly monitor calibration is ongoing.

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

- Met with DNR/Shaw on 1/24/13, reached agreement on well designs
- Tt will continue to re-habilitate any non-flowing wells
- All available wells were PDK logged on April 1st to April 13th, note that PDK logging of wells ORW-5, -6, -9, -14, -15, and -10 will be postponed until a later date.
- Based on the recent round of PDK logging, 4 wells (ORW-11, -13, -18 & -30) were re-perforated on Saturday the 20th. ORW-30 and ORW 18 have begun producing and have been connected to the flare. ORW-23 is building some pressure but not sustaining.
- Radius of Influence (ROI) wells being installed at well pads ORW-5 & ORW-9. Drill crew continues working at ORW-9 to avoid conflicting operations at ORW-5 pad.
- A test for using the Cone Penetration Testing (CPT) technique to determine the presence of a methane gas layer on top of the MRAA is underway today at ORW-27. If the method proves successful, crew will then proceed to well sites ORW-5 and ORW-9.

Directive #4 – Operation of All Wells

- Flares #3, #4, and #5, are operating. Flare #2 is off as the wells supplying this flare are temporarily shut in due to Code 3 condition and wellhead operations at cavern well OG-3
- Two additional flares on order and being fabricated

Directive #5 – Sinkhole Containment

- Joint Application to OCM and COE, which included sinkhole containment design and additional ORW wells, was submitted on 2/14/13 and Tt is presently addressing comments received on application.
- Initial containment of the sinkhole area completed.
- The draft final design package was submitted to TBC and the agency.
- A pre-construction meeting was held on-site on March 27th for TBC and contractors
- Construction of the containment system began April 1st
- A total of approximately 1500 lineal feet of GCL and geotextile liners have been placed on the north berm and is being capped with a second lift of clay. Crew is reworking clay to meet moisture and compaction specifications. North Levee final containment system installation is approximately 65% complete.
- GCL/geotextile and clay is being placed on the South Levee, with 1200 feet of GCL and clay placed so far. South Levee final containment system installation is approximately 35% complete.
- Additional sand being added to Rig Road