

**GM-38 Operations and Maintenance Meeting No. 03 (Progress Meeting No. 29) on November 18, 2009**

An on-site meeting was conducted at 11:30 a.m. eastern.

**Attendees:**

NYSDEC Steve Scharf (via phone)  
Navy Chris Shukis, Mech / Elec Supervisory Engineer (via phone)  
Navy Greg Pearman, ROICC  
ECOR Al Taormina  
TtEC PM Stavros Patselas  
TtEC Site Superintendent Edward Urbanek  
ECOR Fred Mattison, Primary Operator  
ECOR Greg Gangemi, Assistant Operator

**Summary:**

Monday September 14, 2009 TtEC began continuous operation of the GM-38 Area Groundwater Treatment Plant. The plant has been running 24 hours a day seven days for over one month. TtEC will operate and maintain the plant for a period of six months, thru mid-March 2010. The plant will be transitioned to another Navy contractor during month 4 or 5 of the TtEC Operations and Maintenance period. ECOR Solutions, Inc. personnel are currently the primary operators of the system and the weekly operator lives in West Babylon, NY which is approximately 20 minutes from plant.

The two pH probes for the system (eq tank and discharge line) were diagnosed with erroneous reading despite several troubleshooting actions. The readings are not accurate when compared to other portable pH meters and litmus paper. One was replaced under warranty and the other sent back to manufacturer. The plant discharge criteria for pH of 6.5 to 8.5 is being met. The other methods of pH readings as well as lab results verifies that the pH is within the discharge criteria.

There were low levels (below discharge criteria) of VOCs by-passing or short circuiting the liquid phase carbon units, which was confirmed and corrected in mid-October. The problem was related to three valve handles being installed backwards. The water being discharged to the Nassau County storm water basin meets the NYSDEC SPDES discharge requirements. The treated vapor discharged is also within permit discharge criteria.

The building subcontractor, Merrick Utility Association (MUA) of Farmingdale, completed sealing the floor, the building sump, and air stripper sump. A punchlist prepared by TtEC has been provided to MUA and reviewed with them. The roof hatch was installed and are to return to install flashing around two vapor ductwork openings and rework around air stripper.

The mechanical subcontractor, WHM Plumbing and Heating (WHM) of East Setauket, NY has completed the liquid phase piping and vapor phase piping. A punchlist prepared by TtEC has been provided to WHM and reviewed with them. Electrical contractor, JVR Electric (JVR) of Medford, NY has several minor punchlist items to complete. Work anticipated over the next two week period is

completion of punchlist items.

WHM and JVR will have to remobilize to install RW-3 wellhead vault and make connections after RW-3 is completed. The process piping is already across Broadway on western side so that what remains is approximately 50 feet of pipe / conduit install to RW-3. The pump, stainless steel riser pipe, and pre-cast well vault are on-site and ready for install after RW-3 is developed.

**DRILLING:** Two monitoring wells (TP-1 and RW3-MW-3 across 135) are installed and developed. Four other monitoring wells are installed but not developed. These four wells are in clusters of two located at 124 Broadway (Sophia St side) and 2 Leroy Ave. Wells are to be developed and equipment removed prior to Thanksgiving.

The RW-3 drilling started yesterday (11/17/09) and currently at 230' feet bgs. This drilling will include working 2-4 overnight for continuous work. The pre-design investigation included only one overnight per recovery well, however this drilling phase is by different driller w/ different rig type. Notices have been sent via mail and hand delivered to residents in the immediate area around RW-3. The TOB has been notified of this overnight drilling and copied on the notifications.

**POTABLE WATER:** High pH on potable water inside the plant has been confirmed by TtEC and Bethpage Water District. BWD suggested routine flushing. TtEC has informed that cost for water usage should not be incurred for flushing. Communications will continue and an on-site meeting is to be scheduled w/ BWD, and their consultant (H2M Group). In the meantime, the two emergency eye wash / shower stations have been turned off and signage installed at the three sinks and bathroom shower. A portable eye wash will be used until issue resolved.

**COUNTY BASIN DISCHARGE:** As per NCDPW approval letter there will be annual maintenance required, related to vegetation control and scarification of basin floor to allow continued infiltration. TOB Rich Pfaender raised the question as to who is responsible for fence repairs and for monitoring / control of mosquito population. The basin will have water in it as a result of the treatment discharge. Discharge into basin now provides water into a basin that was previously dry. TtEC discussed the mosquito issue NCDPW Jerry Ennis, who is to forward this basin's information to Mosquito Control Division of NCDPW.

**AIR DISCHARGE:** COMPLETED

**SPDES:** NO CHANGE - TtEC spoke with NYDEC's Division of Water Jean Occidental regarding the SPDES limits based on primary discharge to NCDPW basin #495. The SPDES limits will not change because this basin is self-contained and not interconnected with another basin. This detail was confirmed with NCDPW Jerry Ennis. TtEC PM requests that NYSDEC Steve Scharf confirm with no changes to SPDES limits with Ms Occidental. TtEC PM and NYSDEC are to review the SPDES reporting requirements and associated sampling plan.

**SITE SECURITY:** TtEC is evaluating the need for and cost associated with installing a security camera systems. Fake cameras are being considered. Two attempts have been made to cut the fence. Current repair damage is approximately \$1000. Navy's Lora Fly is to order U.S. Government Property signage to install around the fence line.

**TOB INSPECTIONS:** NO CHANGE - TOB's Gary Blanchard is now assigned to this project and will not perform regularly scheduled TOB inspections as was initially set-up. TtEC will provide a letter documenting that the building was constructed in accordance to plan and code as well as a copy of underwriters certificate for electrical. The underwriter's letter will be provided by certified third party electrical inspector. This inspection was completed on September 30, 2009 without any issues. The fire marshal inspection was completed October 1, 2009 without any issues.

**DOCUMENTATION:** NO CHANGE - The required project documentation (such as daily reports, QC inspection reports, etc.) continues to be provided to Navy's Greg Pearman. TtEC requests that a red zone meeting be held soon since major subcontractors have started completion of punchlist items. After today's meeting Navy's Chris Shukis and / or Greg Pearman are to review w/ TtEC the redzone checklist (80% construction complete) and project turnover checklist.

**ROOF ACCESS:** TtEC PM reviewed the roof hatch install cost with Navy RPM and decided to proceed with installation utilizing the cost savings of NCDPW waiving the discharge fee. The roof hatch has been installed and includes a safety railing around the hatch. A representative of Miller Fall Protection is to visit the site to assess and recommend a roof safety system including the install of fixed points at certain locations as tie-off points.

**O&M:** The O&M phase started on September 14, 2009. ECOR Solutions assistant operator is on-site for 20 hrs per week on Mon, Tues, and Wed. The primary operator is on-site 2 days per month. TtEC is to provide O&M for 6 months and then transition to other Navy contractor, perhaps ECOR Solutions, Inc. Draft final version of O&M manual was submitted to NYSDEC's Steve Scharf and Henry Wilkie on September 9, 2009. NYSDEC has started review and needs to consider closure criteria to turn off system in the future. As-built drawings will be incorporated into the final version but cannot be completed until RW-3 is installed and surveyed in. The TOB is to also receive a final copy (2 CD and 2 hard).

Two monthly operation reports have been submitted to date to NYSDEC Steve Scharf, NYSDEC Regional Water Engineer, Nassau County DPW, TOB and Navy was discussed. The report combines both air and groundwater data in tabular format. TtEC will summarize meeting and distribute meeting notes prior to the next progress meeting tentatively scheduled for **Tuesday, December 15, 2009 at 11:30 a.m.** A conference call in number will be established for those who cannot attend in person.

**BUILDING:** Navy Greg Pearman discussed the need to clean structural steel. The building subcontractor wiped down what was accessible. Need to schedule an on-site meeting w/ Greg and building subcontractor (MUA and RBR Construction) to review the areas of concern.



