

**GM-38 Operations and Maintenance Meeting No. 05 (Progress Meeting No. 31) on January 13, 2010**

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

**Attendees:**

NYSDEC Steve Scharf  
Town of Oyster Bay Richard Pfaender  
Navy Chris Shukis, Mech / Elec Supervisory Engineer (via phone)  
Navy Greg Pearman, ROICC  
ECOR Al Taormina  
ECOR Fred Mattison, Primary Operator (via phone)  
TtEC PM Stavros Patselas  
TtEC Site Superintendent Edward Urbanek  
TtEC Site Start Up Superintendent Richard Goldbeck

**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 a week since the time without any major shutdown problems. To date approximately 133 million gallons of groundwater has been pumped and treated from RW-1. The treated groundwater being discharged to the Nassau County storm water basin is mostly non-detect with some trace concentrations (less than 1 ppb) of cis-1,2 DCE but meets the NYSDEC SPDES discharge requirements. RW-3 is mechanically and electrically connected scheduled to come on-line the week of January 25

TtEC will operate and maintain the plant for a period of six months, thru March 14, 2010. The plant transition phase to another Navy contractor is not known at this time. Navy is in process of developing an RFP with statement of work to be issued to five bidders. TtEC O&M phase cannot be extended via an existing southwest RAC contract because lack of capacity.

The treated vapor discharged is also within air permit discharge criteria. A vapor carbon change-out of the VGAC vessel # 1 and # 2 is scheduled for next week. TtEC is not scoped to perform change-out but determined there is adequate existing budget to complete. A concurrence letter was sent to Navy for approval to proceed with out of scope work. Since shutdown will occur for vapor carbon changeout, groundwater sampling will and other equipment maintenance will also occur next week. Therefore plant will be shutdown on Friday, January 15, 2010 to allow for groundwater level to equilibrate prior to groundwater sampling activities.

The building subcontractor, Merrick Utility Association (MUA) of Farmingdale, has completed most punchlist items including cleaning dirt off of accessible structural beams. The punchlist will be again reviewed to confirm work completion. Since Merrick installed the potable water line, monies will continue to be retained until high pH is confirmed not due to pipe installed.

The mechanical subcontractor, WHM Plumbing and Heating (WHM) of East Setauket, NY has installed the RW3 pump followed by mechanical connection and electrical connection (by JVR). Electrical contractor, JVR Electric (JVR) of Medford, NY

is to install the TVSS (lightning protection) component inside MCC the week of January 25 and prior to RW3 start-up. Square D (MCC programming) and Advantech (PLC programming) are scheduled to be on-site January 28 to start-up RW-3.

**DRILLING:** The drilling phase is complete and included install of six monitoring wells and recovery well RW-3. All wells are developed including RW-3. Waste management associated with drilling phase, includes drill cuttings in roll-offs and frac tanks containing purged development water, has been completed. Disposal documentation will be provided to ECOR's Al Taormina. Restoration of monitoring wells in front of homes will be completed in Spring 2010 and the residents have been informed of this timeframe.

**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. On-site meeting w/ BWD, and their consultant (H2M Group) occurred on December 1, 2009. Today H2M provided a suggested protocol to flush the line based on their experience with similar issues at Bethpage State Park golf clubhouse and TOB community park pool house. TtEC will proceed to follow the protocol but high pH will likely rebound after a day. 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. Potable water line was installed by Merrick who was in contact with pipe manufacturer regarding the issue. Griffith Pipe has been in business over 100 years and have not heard before that CLDI pipe manufactured by them leaches to point of elevating pH. TtEC is to schedule an independent chemist to perform tests in attempt to eliminate possible causes.

**COUNTY BASIN DISCHARGE: NO CHANGE** - As per NCDPW approval letter there will be annual maintenance required, related to vegetation control and scarification of basin floor to allow continued infiltration. Plant operator visually inspects the basin outfall and perimeter fence one time per week for any problems. TtEC discussed the mosquito issue NCDPW Jerry Ennis. This basin will now be part of mosquito monitoring program performed by Mosquito Control Division of Nassau County .

**AIR DISCHARGE:** COMPLETED - Monthly report of weekly sampling results is submitted to NYSDEC.

**SPDES:** NO CHANGE - Monthly report of weekly sampling results is submitted to NYSDEC.

**SITE SECURITY:** TtEC evaluated the need for and cost associated with installing a security camera systems. It is determined not to proceed with install of security camera system and this will be reconsidered in the event there is increase of problems. No problems since two attempts have been made to cut the fence, with repair damage of approximately \$1000. Louver guards consisting of rebar will be fabricated and installed at the five louvers to prevent plant entry via opening. TtEC is to contact Long Island Locksmith to switch out the existing door locks to hardware suitable for Navy key.

**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 completed majority of punchlist items.

**ROOF ACCESS:** The roof hatch has been installed and includes a safety railing around the hatch. A representative of Miller Fall Protection visited the site for assessment. A proposal w/ recommendations in the amount of \$3,000 is being evaluated for a roof safety system. Existing budget may not be adequate for the full system and evaluating cost to just install several fixed points at certain locations as tie-off points.

**O&M:** NO CHANGE - The O&M phase started on September 14, 2009. ECOR Solutions assistant operator is on-site for 20 hrs per week on Monday, Wednesday, and Friday. 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. NYSDEC Steve Scharf is to contact Navy RPM Lora Fly to discuss GM-38 operations closure scenarios. As-built drawings will be incorporated into the final version and the surveyor is to be scheduled to capture RW-3 and other new monitoring wells. The TOB is to also receive a final copy (2 CD and 2 hard).

Three 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 reports were previously mailed but will now be emailed only unless hard copy is requested. The report combines both air and groundwater data in tabular format.

**BUILDING:** Navy Greg Pearman discussed the need to clean structural steel at November 2009 progress meeting. The building subcontractor wiped down what was accessible previously and has done so again. Visual inspection by Greg is requested to confirm punchlist item is complete.

**DIG SAFE** - The pipe and conduit part of this project needs be entered into Dig Safe notification database in the event of future work in the vicinity. Questions as to who will be notified and who will respond need to be determined. TtEC Rich Goldbeck has been in contact with Dig Safe and received a form to be completed and returned along with surveyed as-builts.

TtEC will summarize meeting and distribute meeting notes prior to the next progress meeting tentatively scheduled for **February 17, 2010 at 11:30 a.m.** A

conference call in number will be established for those who cannot attend in person.