

GM-38 Operations and Maintenance Meeting No. 02 (Progress Meeting No. 28) on October 15, 2009

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

Attendees:

NYSDEC Steve Scharf
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
TtEC Site Start Up Superintendent Richard Goldbeck
TtEC Quality Control and Health and Safety Joseph Gray

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. There have been a few minor shut downs due to a high level condition in the equalization tank and stripper tower sump. 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 Babylton, which is approximately 20 minutes from plant.

The two pH probes for the system (eq tank and discharge line) are in the process of being diagnosed. Their readings are not accurate when compared to other portable pH meters and litmus paper. TtEC is working with the pH probe manufacture to resolve this issue. 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 are low levels (below discharge criteria) of VOCs by-passing or short circuiting the liquid phase carbon units. It is believed this is related to and issue with valves on the pipe rack. Two engineers are on-site today to evaluate the pipe rack and valve configurations to determine if water is bypassing or short circuiting the liquid phase carbon units.

The water being discharged to the Nassau County storm water basin meets the NYSDEC SPDES discharge requirements. A draft copy of the monthly operations reports for both groundwater and air discharge results were submitted to Navy and NYSDEC remedial project managers. Once reviews complete, the monthly report will also be sent to NYSDEC Division of Water, the NYSDEC regional water engineer, Nassau County and Town of Oyster Bay.

The building subcontractor, Merrick Utility Association (MUA) of Farmingdale, continued sealing the floor. A punchlist prepared by TtEC has been provided to MUA and reviewed with them. They were informed to proceed with scheduling roof hatch install. MUA's landscaping subcontractor Gayle Bard completed spreading topsoil and hydroseeding of disturbed areas. Merrick's

subcontractor RBR Construction, Inc. will begin installation of the roof hatch provided the remaining parts are delivered to the site. The roof curb was previously delivered. An Activity Hazard Analysis for the roof hatch install was prepared and will be reviewed with the subcontractor as well as with Navy ROICC Greg Pearman. Work anticipated by MUA over the next two week period includes: completion of any remaining punchlist items and sealing the sumps.

The mechanical subcontractor, WHM Plumbing and Heating (WHM) of East Setauket, NY has completed the liquid phase piping and vapor phase piping. The instrumentation is installed and the calibration and testing is completed. 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: The RW-3 pilot hole was completed. The proposed screen size(s), screen interval(s) and well construction diagrams have been evaluated and approved by NYDEC. Delta has ordered the stainless steel screens and carbon steel well casing. The drilling of RW-3 is anticipated to begin next week. Notices have been send via mail and hand delivered to residents in the immediate area around RW-3. One the drilling begins the work will continue 24 hours/day until it is complete. It is anticipated it will take two to three full 24 hour days to complete the drilling and construction of RW-3.

TP-1, located just north of the groundwater treatment building and RW1-MW-3 (adjacent to Sleepy's) located on the east side of Seaford-Oyster Bay Expressway have been drilled, constructed, and developed.

The outer casing has been installed for the two monitoring wells located at the intersection of Leroy and Arthur. The drillers are currently setting the outer casing of the two monitoring wells located at the intersection of Broadway and Sophia St. A second mud rotary rig is to be mobilized so that the two wells at both location are completed simultaneously and before Thanksgiving.

POTABLE WATER: COMPLETED

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. Nassau County owns and maintains over 600 basins some of which are on list for mosquito monitoring and control. Minor fence damage by trespassers should be repaired by Navy and major fence repairs such as a vehicle crashing into fence or tree falling onto fence will be covered by NCDPW. A Navy padlock remains at basin entry gate.

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: Site security ended on October 2, 2009. Three security monitoring firms have been contacted for quotations on security camera systems. Quotations received are being evaluated.

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 has received the installation proposal of approximately \$12,000 and provided a copy to Greg for review. TtEC PM reviewed with Navy RPM and decided to proceed with installation utilizing the cost savings of NCDPW waiving the discharge fee. MUA and RBR Construction were provided authorization to proceed with ordering the roof hatch materials. Fixed points need to be installed at certain locations as tie-off points.

O&M: The O&M phase started on September 14, 2009. TtEC is to provide O&M for 6 months and then transition to other Navy contractor, perhaps ECOR Solutions, Inc. The Navy review of draft O&M manual is complete. TtEC response to comments is complete. Draft final version was submitted to NYSDEC's Steve Scharf and Henry Wilkie on September 9, 2009. As-built drawings will be incorporated into the final version. The TOB is to also receive a final copy (2 CD and 2 hard).

Monthly operation reports to NYSDEC and others was discussed. A draft monthly repost was submitted to Navy and NYSDEC for review. 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 **Thursday, November 18, 2009 at 11:30 a.m.** A conference call in number will be established for those who cannot attend in person.