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January 6, 2010

Bethel Township Municipal Authority
PO Box 24
Bethel, PA 19507
ATTN: David Younker, Chairman

RE: Monthly Report for December '09

Dave and Board Members,

This office has been working on the following items this past month and would like to update the Board as follows: (items denoted with "*" have accompanying information in the Board's packet. Items denoted with "**" have been forwarded to board members prior correspondence this month).

DEVELOPMENT PLANS FOR BOARD REVIEW AND/OR ACTION (POTENTIAL VISITORS):

1. Tank Lining Work (Marks Contracting/Dutchland, Inc. & I.K. Stoltzfus): The contractor's may be present this evening to discuss this work and the Board's further direction in this regard. Although various letters, reports and evaluations have been circulated the past several months we would like to summarize the status as follows:
 - a. BETHEL TANK LINING: The tank lining in Bethel was the first work to be completed (August/September, 2009). The lining work progressed with various issues surrounding the adherence of the primer/liner to the tank surfaces. After an evaluation by the contractors and material supplier (Sherwin Williams) technical staff it was agreed that the lining work did have problems during the application process. However, the contractors and material suppliers have offered the Board consider the following option:
 - i. The contractor's will provide a two (2) year warranty of their product and lining work. Furthermore a thorough and complete inspection shall be made at that time (prior to 2 year period) in order to determine whether or not the lining work is adequate or needs to be recoated.
 - ii. The contractor has furthermore offered to recoat the "patched areas" with the coating material as deemed necessary to the Board.
 - iii. OVERALL, our review of this option would recommend that the Board either favorably consider this option with the following conditions or otherwise (in the alternative) require a recoating of the tanks with the same protocols and procedures necessary and used at Frystown (recently):

1. The need to recoat the patched areas shall be determined and demonstrated by technical data to ensure the proper timing of this work (now or in the future) in advance of any agreements.
 2. The work to entirely recoat the tanks (as may be necessary) shall be bonded for the agreed upon warranty period. Costs shall include ALL costs associated with the work and shall be agreed to in advance of the agreements.
 3. The contractors should consider extending their offer of a two (2) year warranty and inspection period to a four (4) year period.
 4. All terms and agreements of the inspection and determination of failure (at the warranty period) shall be established by the Authority in the form of an agreement.
- b. **FRYSTOWN TANK LINING:** The tank lining in Frystown was completed recently (November/December, 2009). The lining work here took into account all the various problems encountered on the Bethel work and actually utilized different products, procedures and protocols. The problems that were visually obvious in Bethel were NOT present here in Frystown. However, since some of the protocols and procedures were verbally directed by Sherwin Williams technical staff and were seemingly contradictory to published literature we are awaiting written certification from Sherwin Williams of these procedures and protocols.
2. Frystown resident concerns and work items:
 - a. **As discussed last month this office has discussed further plans adjacent to the Frystown Treatment Plant site with Attorney Magovern. We have also issued a letter to the Township requesting that the plans be revised to remove the improvements (stormwater & grading) on the Authority's property before the plans are considered for FINAL approval.
 3. Bethel Resident concerns and work items:
 - a. The storm water related concerns along and adjacent to properties along Lancaster Avenue were placed on hold again this month due to more pressing matters but will resume over the next month or two working on a report for the Board on this matter.

FINANCING MATTERS (PENNVEST & PENNWORKS):

4. *This office is recommending payment of invoices (separate correspondence to the Board) for the construction project for the following listed contracts (through to 12/25/09) which would require Board action for payment. The payment details are attached (separate correspondence) and summarized as follows:
 - a. Contract # 1 Frystown collection lines NO WORK THIS PERIOD.
 - b. Contract # 2 Bethel collection lines NO WORK THIS PERIOD.

- c. Contract # 3 Bethel Pump Stations NO WORK THIS PERIOD.
- d. Contract # 4 Bethel Wastewater Treatment Plant NO WORK THIS PERIOD.
- e. Contract # 5 Frystown Wastewater Treatment Plant (99% complete to DATE see attached).
- f. Contract # 6 Mechanical Systems for WWTP and appurtenances NO WORK THIS PERIOD.
- g. Contract # 7 Plumbing Systems for WWTP and appurtenances NO WORK THIS PERIOD.
- h. Contract # 8 Electrical Systems for WWTP and appurtenances (98% complete to DATE see attached).

CONSTRUCTION MANAGEMENT AND LOGISTICS:

- 5. Our inspection reports are available to the Board members (via our website) and can be furnished (paper copies) upon request. In summary the work has been progressing as follows:
 - a. **Contracts # 3 – # 8** The work on the various contracts continues in varying degrees.
 - i. The contractor has requested the project be determined substantially complete for the Bethel WWTP (contract # 4). However, we are still awaiting the final certification for the process design of the plant (which has been requested since May, 2008) before concurring with the substantial completion. This will also apply to Contract # 5 (Frystown WWTP) very soon as well.
 - ii. Work continues to progress in Frystown (contract # 5). This past week there have been various equipment startups and checks at the plant and a tentative schedule for initial plant startup is anticipated for the week of January 18, 2010.

OTHER MATTERS REQUIRING BOARD REVIEW AND/OR ACTION:

6. **CHANGE ORDERS:**

- a. We have included documentation for the Board's consideration in concurrence of change orders for the two plant sites as necessary for plant operations.
 - i. * Contract # 7 (Plumbing Contract) CHANGE ORDER # 6 (see attached document) this is to provide an eye wash station as required.
 - ii. * Contract # 8 (Electrical Contract) CHANGE ORDER # 19 (see attached document) this is to provide heat trace equipment as required by the plant operator.

- iii. * Contract # 8 (Electrical Contract) CHANGE ORDER # 20 (see attached document) this is to provide a quad phone and data port for the SCADA system.
- 7. * PENNDOT HIGHWAY OCCUPANCY PERMIT TRANSFER (Bethel WWTP driveway access): As the board is aware, the prior access strip (easement) was secured as a separate property and is now in the Authority's name (recently received a copy of the deed). The Authority should consider formally requesting a transfer of the permit into the name of the Authority.
- 8. NORTHERN EXTENSION (Klahr Road).
 - a. The current status of the final design and permitting are progressing as follows:
 - i. The archeologist has submitted the FINAL report to the State (PA – Historical Museum Commission) for their review and concurrence.
 - ii. This office has received a copy of the PENNDOT permit this week.
 - iii. Now that we have the archaeology submission completed and verified (received) we are awaiting an allowance by PADEP for a concurrent review (archaeology & PADEP permitting) due to checklist requirements.
 - iv. The easements were not distributed to the Attorney this month but have been finalized and are targeted for sending out this week.
 - b. In finalizing some of the final plan details (sewer line layout) specific underground infrastructure (current and abandoned) was revealed to create potential conflicts requiring a possible rerouting of the sewer line. We would like to discuss this matter with the Board for their consideration.

Should there be any questions, please feel free to contact me.

Sincerely,
Vision Engineering, Inc.
Bethel Township Municipal Authority Engineer

John K. Roche, P.E.

cc: Elizabeth Magovern, Esq. (w/attachments)