

**EAST BRANDYWINE TOWNSHIP MUNICIPAL AUTHORITY
WORK SESSION
MARCH 29, 2019**

Those in Attendance:

Michael Corbin, Chairman
Sandra Moser, Vice Chairman
David Summers, Treasurer
David Whelihan, Member
Don Graewe, Member

Also in Attendance:

Scott Piersol, Township Manager
Matthew Van Lew, Township Road Master
Thomas Oeste, Esq., Municipal Authority Solicitor
Joseph Boldaz, Municipal Authority Engineer
Jan C. Bednarchik, Recording Secretary

The Municipal Authority work session of Friday, March 29, 2019, was called to order at 8:03 AM in the East Brandywine Township Municipal Building by the Chairman.

Applecross

Hydraterra prepared the Annual Effluent Tracking Report showing there was no discharge to the drip irrigation system in 2018. Mr. Boldaz reported that stream discharge started today to increase the storage volume and also prepare for the Effluent Pumping and SBR No. 3 Modification project. A copy of the report was submitted to Nancy Sansoni, the soils specialist at DEP, by letter dated 3/15/19.

Hydraterra received a quote of \$55,532.70 from Coyne Environmental through the COSTARS system for the carbon replacement project. The quote includes removal and disposal of spent carbon, purchasing and installing 19,000 lbs. of new carbon, and testing of the removed carbon in accordance with the COSTARS posting. The quote did not include installation of the sampling arrangement presented on the plan. A previous quote of \$60,465 from a non-qualified COSTARS contractor also excluded installation of the sampling pump or tubing. Mr. Boldaz issued a letter on 3/26/19 recommending the Municipal Authority accept the quote from Coyne Environmental and schedule the work for the project. Hydraterra will work with the contractor or someone else to install the sampling equipment during the carbon replacement process. Coyne will take samples at various levels throughout the carbon bed to determine how much carbon has actually been spent and may also be willing to come back at regular intervals to sample the air stream that is leaving the carbon filter. They indicated that it would take approximately two weeks to get the carbon on-site and, depending on the availability of the contractor, said the project could be done in May or June, although they would not commit to a specific timeframe without a signed contract. Coyne is not familiar with the radial vessel at Applecross, so they don't know how problematic it may be

to remove the carbon. Hydraterra will be on-site while the work is being done. Mrs. Moser moved to accept the quote from Coyne Environmental upon the recommendation of the Authority Engineer. Mr. Graewe seconded the motion, which carried unanimously.

MGK Industries anticipates installing the Disk Filter Walkway the second or third week of April.

Mr. Boldaz issued a letter on 3/26/19 recommending approval of Pay Application No. 3 in the amount of \$13,250 for work completed to date, less a 10% retainage, for a total release of \$11,925. Mr. Summers moved to approve the release of \$11,925 to Eastern Environmental Contractors upon the recommendation of the Authority Engineer. Mrs. Moser seconded the motion, which carried unanimously. Mr. Boldaz noted that the control panel and other equipment is currently being manufactured, and the second week of May is the anticipated project start date.

Mr. Oeste advised that he received the maintenance bond and deed of dedication for the sanitary sewer facilities within Phases 2A, 2B, 2C, 3, 5A, 5B and 5C from Alyson Zarro, Esq., on 3/27/19 along with a request for the Board's consideration of acceptance of dedication at its next available meeting date. The Authority recommended dedication be deferred until a further determination is made as to the source of inflow and infiltration (I&I) into the sanitary sewer system. Mr. Boldaz advised that the infrastructure in the areas proposed for dedication had been televised in the past and found to be acceptable. He suspected that cleanouts, vent stacks and possibly sump pumps are the sources of I&I. He also reported that the manhole inserts were installed, and Hydraterra personnel will be making routine inspections at night during significant rain events to observe any changes.

The Authority Engineer and Solicitor will work together on a policy requiring maintenance of cleanouts and vent stacks. Mr. Oeste suggested sending a letter to let the homeowners know that it is illegal to connect a sump pump to the sanitary sewer system and also address the issue of maintaining cleanouts and vent stacks. Mr. Summers agreed that a one page letter would be helpful in educating the users. A mailing will be prepared once the policy is adopted.

The Estates at Dowlin Forge (a.k.a. Hillendale)

Hydraterra completed additional shop drawing reviews for the Aqua SBR, doors and hardware, access hatches, skylight, water heater and masonry, and all were returned as approved to the contractor. A couple of construction clarifications were also issued. Currently, there are no shop drawings awaiting review by Hydraterra.

DEP issued a letter on 3/21/19 approving the Pump and Haul Renewal #2 Application with certain conditions. The approval expires on 12/01/19.

Mr. Boldaz notified Pravin Patel at DEP of the impending construction of the wastewater treatment plant and drip dispersal system by letter dated 3/22/19. The scheduled construction duration is anticipated to be six to eight months.

A pre-construction meeting was held at the job trailer on Friday, March 22. Attendees included Township Manager Scott Piersol, Joe Boldaz and Bob Preston from Hydraterra, Frank Newhams of Arro Consulting, Mike Emerson and James Knauer of Pikeland Construction, Dan Hudson of Evans Mill Environmental, Jeffery Mull of Mulls Electric, and Joy Caprio and John Rathcor of Metropolitan Development Group (MDG). Michael Tulio of MDG arrived with fifteen minutes remaining. Joy Caprio of MDG is to prepare and distribute formal meeting minutes, but no minutes have been received to date. Mr. Boldaz prepared a meeting memorandum with a construction schedule attached for the Authority. Dates noted on the construction schedule are subject to change.

The contractor began excavation for the tank earlier this week. MDG's consultants were reminded to provide Hydraterra with qualifications for a geotechnical firm to check the subgrade as well as qualifications for a structural firm to check the concrete. This information has not been provided yet and the contractor expects to dig footers for the base pad next week and then set the structural steel for the pad within two weeks. Written confirmation that the subgrade below the tank meets allowable soil bearing strength prior to the start of foundation is also required. Depending on the weather, Dutchland is expected to begin preparing the tank pad for concrete in the 2nd or 3rd week of April. In addition, Arro Consulting served MDG with a Corrections Notice for the treatment plant building, which includes a request for additional information related to the tank footing and foundation. Dan Hudson is working with Frank Newhams to provide the information requested in the Corrections Notice, which will need to be approved by Arro before any concrete is poured.

Beginning next week, surveyors will start laying out the drip irrigation areas, and Pikeland may begin removing fallen trees with a low ground pressure skid loader to avoid compaction. Nancy Sansoni at DEP has been notified and will determine when the soil is adequate to install the tubing. Pikeland Construction anticipates installing the drip tubing in June to try to achieve two growing seasons.

The SBR equipment is expected to be delivered in July. The plant startup date is currently scheduled for the last week of December 2019. Hydraterra has discussed the minimum flow requirements for plant startup with Aqua Aerobics, which is purported to be 10 to 20 percent of the design flow rate. Additional carbon supplements would be required to keep the biology active.

Metropolitan Development Group issued a letter on 3/7/19 disputing the February invoices from Hydraterra Professionals.

Mr. Oeste reported that he received insurance certificates from MDG and Pikeland Construction via email late yesterday afternoon. He will review the insurance certificates to verify that the Municipal Authority, East Brandywine Township, their employees and consultants are named as additional insureds in accordance with the Sanitary Sewer Construction Agreement dated 5/25/17, and Section 1.8 of the Specifications.

Hide-A-Way Farms

The Municipal Authority continues to await a response from Aqua concerning the Bulk Sewer Agreement. An acceptable agreement is a requirement for dedication of the sanitary sewer facilities. Mr. Boldaz mentioned that a letter was sent to Aqua as part of the Act 537 Plan Update to inquire whether the Little Washington facility could accept additional flow, and Aqua responded in the affirmative. Aqua also provided user rate information which Hydraterra will compare with the proposed bulk sewer rate.

Southdown Homes has completed corrective action on the majority of items on the collection system punch list. A final inspection will be scheduled within the next couple of weeks. The manhole covers in the new section of Emma Court need to be adjusted to the road grade. Outstanding items involve the raw sewage pump station and the dormant disposal pump station and correction of inflow and infiltration issues.

Mapleview

The sanitary sewer installations along a majority of Sugar Maple Square are complete. Additional sanitary sewer work is on hold pending implementation of a dewatering plan. MGK Industries contacted Hydraterra to discuss installation of the pump station wet well. Confirmation was provided to Nancy Sansoni at DEP that safety fence has been installed outside the perimeter of the drip field to protect it from compaction.

Weaver Tract

A meeting memo dated 3/21/19 was prepared by Hydraterra to summarize the discussion on the concept of constructing one disposal pumping station on the Weaver Tract to serve the future drip facilities on both the Mapleview and Weaver Tracts. Attendees included Fred Ebert of Ebert Engineering, Don Sample of Land Development Services, Michael Braver of M&B Investments, Sebastian Ferrer of NVR, Joe Boldaz and Sam Dever from Hydraterra, and Scott Piersol and Matthew VanLew on behalf of the Township/Authority.

Mr. Ebert discussed conceptual drip disposal rates and indicated that the Weaver Tract could potentially provide 100% of the area needed for both properties, while the Mapleview development could potentially provide the 50% backup area for both properties. It was proposed to locate the pump station on the Weaver Tract and eliminate the pump station at Mapleview. Based on the information provided by Mr. Ebert on the anticipated drip field capacities and the planning flows for each development, it is anticipated that there could be excess drip capacity of 13,000 gallons per day for future use by the Authority.

Mr. Boldaz supports the concept of a single pump station but acknowledged that the joint venture will require extra planning due to the temporal nature of the project. The Mapleview development currently has 150% drip disposal capacity in lieu of providing any storage, and the Weaver Tract is currently required to have storage on-site. Don Sample will attend the April work session to provide an overview of how the shared pump station arrangement will work.

Act 537 Planning Grant

More than 400 survey responses were received within two weeks of the mass mailing, which far exceeds the 15% response rate required by DEP. Mr. Boldaz suggested that additional surveys be accepted for just one more week to enable the Task Force to begin preparation of the Needs Analysis. DEP will be contacted for clarification on the number of door-to-door surveys required to verify accuracy of the survey responses. Mr. Boldaz also mentioned that the Township may ultimately be required to implement a Sewage Management Program as part of its official Act 537 Plan whereby property owners are required to pump their septic tanks once every three years. The Task Force will discuss dividing the Township into 3 or 4 areas now to prepare for implementation of a sewage management plan, when needed.

Old Business

As authorized at the last meeting, Mr. Oeste will prepare a resolution establishing a policy requiring the submission of documents to be included on the agenda of a Municipal Authority meeting at least fifteen business days prior to the meeting date. The resolution will be on the agenda for adoption at the next meeting.

BBD Ltd expects to complete the 2018 Audit Report and file the Annual Report of Municipal Authorities with the PA Department of Community and Economic Development within the next couple of weeks.

New Business

Mr. VanLew plans to secure quotes from other contractors to perform the semi-annual HVAC system maintenance at the Applecross control building due to multiple service calls over the past year to repair the heating system.

Mr. Piersol advised that East Whiteland Township announced it is partnering with Aqua to issue shut off notices for water service to customers who are delinquent on their sewer bills. Mr. Piersol requested additional information about this procedure from Township Manager John Nagel for the Board's consideration.

Public Comment

None.

Adjournment

Mr. Graewe moved to adjourn the meeting at 9:10 AM. Mr. Summers seconded the motion, which carried unanimously. The next meeting is Tuesday, April 9, 2019.

Respectfully submitted,



Jan C. Bednarchik
Secretary