

**MINUTES OF THE MEETING  
DERRY TOWNSHIP MUNICIPAL AUTHORITY  
670 CLEARWATER ROAD  
HERSHEY, PA 17033  
MONDAY, FEBRUARY 28, 2022**

The Derry Township Municipal Authority Board held its regular meeting on Monday, February 28, 2022, in the Conference Room of the Authority's Administration Building, 670 Clearwater Road, Hershey, Pennsylvania. The meeting was also available to Board members, Consultants and Advisors, and the general public virtually through GoToMeeting. Chairman Feidt called meeting to order at 6:00 p.m.

**ROLL CALL**

Attendees	In-Person	Virtually
<b>Board Members</b>		
John Canavan	X	
Christopher Christman		X
Charles Duncan		X
David Feidt	X	
Ronald Furlan		X
Brian Link		X
Carter Wyckoff		X
<b>Staff</b>		
William Rehkop (Executive Director)	X	
Kimberly Bloom (Deputy Director)	X	
Michael Postick (Staff Engineer)	X	
Michael Shambaugh (Network Systems Manager)	X	
Dennis Beck (Comptroller)	X	
Sarah Ryan (Stormwater Program Manager)	X	
<b>Consultants</b>		
Darrell Dethlefs (Dethlefs Pykosh)	X	
Colin O'Brien (Brown and Caldwell)	X	
Josh Fox (HRG)	X	
<b>Other Attendees</b>		
Tim Horstmann, McNees Wallace & Nurick	X	
Ryan Brockman, Raymond James	X	
Scott Shearer, PFM	X	

**PUBLIC COMMENT**

There was no public comment at this time.

**APPROVAL OF PREVIOUS MINUTES**

B. Link made a motion to approve the Minutes of the January 24, 2022 Board meeting. R. Furlan seconded. The motion passed unanimously by voice vote.

**APPROVAL OF TREASURER'S REPORT AND BILLS FOR PAYMENT**

Staff presented the January Bills for Payment and Treasurer's Report for approval. R. Furlan made a motion to approve the reports, seconded by J. Canavan. The motion passed unanimously by voice vote.

## **STAFF UPDATES AND REPORTS**

### **New Bond Issuance**

With the continued implementation of the Board approved capital projects, as identified in the 10-year Capital Improvement Plan (CIP), the current construction fund balance is estimated to be completely disbursed in 2022. Staff budgeted for an additional bond issuance in the 2022 Budget to fund the Board approved projects. Staff learned this past month that the Federal Reserve will begin raising interest rates in spring 2022, causing uncertainty in the municipal bond market. The Finance Team recommended moving forward with the new bond issuance at this time given the expectation that rates will continue to rise throughout the year. Since DTMA's last bond issuance, Lou Verdelli is now employed by Raymond James & Associates. Resolution 2022-08 has been prepared to update the Authority's Finance Team to reflect this change. Scott Shearer of PFM reviewed the details for the financing. Tim Horstmann of McNees Wallace reviewed Resolution #2022-09 which authorizes the Finance Team to proceed with the issuance.

Ryan Brockman of Raymond James noted that on February 24<sup>th</sup>, Staff and members of the Finance Team held a bond rating call with S&P Global. The Finance Team believes that the Authority will remain at the current bond rating of AA- with a stable outlook for the new bond issuance.

**Resolution #2022-08 – Appointment of the Finance Team to undertake the issuance of Series 2022 Sewer Revenue Bonds:** This resolution was passed on a motion by B. Link, seconded by R. Furlan. The motion passed by voice vote. D. Feidt abstained from voting due to a business association with a member of the Finance Team.

**Resolution #2022-09 – Authorization for Finance Team to proceed with the issuance of Series 2022 Sewer Revenue Bonds:** This resolution was passed on a motion by R. Furlan, seconded by J. Canavan. The motion passed by voice vote.

### **2021 Operating Year in Review**

Senior Staff Engineer, Michael Postick, provided the Board with a report outlining the operating data for the Clearwater Road and Southwest Treatment Plants in comparison to the NPDES permit limits for each plant. Highlights of the report included:

- Annual average effluent flow for the Clearwater WWTP increased by approximately 7.4% in comparison to 2020 (3.49 MGD). Average monthly flows for Southwest WWTP were typical throughout the year compared to previous operating years.
- There were no NPDES permit violations for the Clearwater WWTP. One NPDES permit violation occurred at the Southwest WWTP due to an exceedance of the Fecal Coliform instantaneous maximum. The cause was not specifically identified. Staff cleaned the ultraviolet disinfection system lamp tubes as a precaution. There were no trends of high Fecal Coliforms observed during the year.
- Based on the Clearwater WWTP operating performance, 14,122 nitrogen credits and 2,129 phosphorus credits were generated for sale and 179 phosphorus credits were generated for sale based on the Southwest WWTP operating performance. During the year, 2,168 nitrogen credits and 2,130 phosphorus credits were sold for a total of \$15,716.
- The Operations Department completed the UV disinfection system replacement. The UV system is critical to the operation of the Clearwater plant in maintaining compliance with DTMA's stream discharge permit. The new system was installed quickly and is performing quite well.

- DTMA continued the self-managed biosolids program for management of the beneficial reuse of Class B Biosolids. The total Class B Biosolids processed at the Clearwater Road WWTP and land applied amounted to 5,599 wet tons. The total costs for all services was approximately \$38.35 per wet ton which resulted in a savings of 6% compared to the price per wet ton in 2020.
- The hauled-in waste program receipts totaled \$1.388 million.

DTMA Staff continued to maintain the wastewater collection and conveyance system in accordance with the established maintenance program. The following cleaning and televisual work was completed by Staff in 2021:

- Cleaned 165,316 linear feet (LF) of sanitary sewer pipe (LF nearly doubled compared to 2020).
- Televised 81,599 LF of sanitary sewer pipe
- Televised 1,138 LF of storm sewer pipe
- Conducted 1,072 grease trap inspections (268 per quarter) at restaurants and food establishments within the DTMA service area. This inspection program has significantly reduced the number of grease-related blockages within the sanitary sewer system.
- Observed and reported five (5) sanitary sewer overflow (SSO) events within the sanitary sewer system. The SSO events were related to minor mechanical equipment malfunctions, a water main break, and the effects of Hurricane Ida.
- Received 22 new connections to the sanitary sewer system, with corresponding Capacity Fees totaling \$655K. Some notable new establishments or capacity purchased in DTMA's service are the UPS Hub on Fulling Mill Road in Lower Swatara Township, the Signature Flats residential development in Hershey, and the Core 5 warehouse development on S.R. 230 in Londonderry Township.
- Sampled waste streams from individual businesses in the service area that have a history of contributing high strength wastewater beyond the domestic surcharge limits for conventional pollutants. Surcharge fee receipts totaled \$756k, which is an increase of approximately 65% compared to 2020.

R. Furlan asked if DTMA has a program to discover inflow and infiltration into the sewer system. The Director reported that the cleaning and televising of the lines helps with this. Any compromised areas of the system are then included in DTMA's biannual repair and relining contracts. Mr. Furlan also asked if DTMA provides information to residents that sump pumps and rain spouts are not permitted to be connected to the public sewer system. The Director noted that Staff is undertaking a concerted effort to provide more public outreach regarding the operation of the public sewer system which will include topics such as not connecting sump pumps, floor drains, and rain spouts to their system. He noted that a customer on Java experienced a significant backup into their basement during Hurricane Ida as a result of a floor drain being connected to the public sewer.

#### CONSTRUCTION CONTRACTS UPDATE

##### Clearwater Energy Enhancements Project [Contracts 2020-02G, 2020-02E, 2020-02H]

The next construction progress meeting is scheduled for March 1<sup>st</sup>. All three Contractors continue to make progress on the remaining submittals as well as progress on construction components. The Engineering team continues to be responsive with submittal reviews and RFIs, and RPR activities are coordinated daily with the team. At the request of BC and DTMA Staff, Eastern submitted an initial version of a project Recovery Schedule and Narrative, which was discussed and requested by the Board at the January meeting. The Recovery Schedule provides a new timeline for the completion of job tasks with the intent of reducing construction delays that have occurred and to prevent any additional delays. Eastern has



since added additional laborers to help improve construction progress. BC and DTMA Staff expect this recovery plan to continue to evolve throughout the remainder of the project. The Recovery Schedule now indicates an intended Final Completion in October 2022, which is an improvement from the previously scheduled completion in December 2022.

The Director stated that a part of this project involves the draining and cleaning of the secondary digester. It has been discovered that the grit removal system at the headworks building is not performing as needed and has been allowing significant amounts of material to get through the system, so it is anticipated that the digester may have a substantial amount of grit material that will need to be removed. This removal work was not originally part of the contract, so Mr. O'Brien has asked for a proposal from Eastern to submit pricing for this additional work based on volumetric tons of materials removed for disposal. Eastern and their subcontractor met with BC and Staff to discuss the project. The draining and cleaning of the digester will cause as little disruption to the plant, staff, and other contractors as possible.

#### Raw Sewage Pumps Replacement [Contract 2020-03]

The next construction progress meeting is scheduled for March 9. Manada continued with minor wiring and preparation for the electrical room modifications in the Admin/Control Building. Manada recently received delivery of the MCC and has tentatively scheduled the weekend of March 26<sup>th</sup> for installation of the new MCC. This work will require temporary power, brief power outages, and has been scheduled to occur over a weekend to minimize disruption to the plant and business operations. Heisey, Manada, and RK&K continue to work on shop drawing and RFI submissions and reviews.

#### ESD Cladding System [COSTARS]

On February 22<sup>nd</sup>, Matrix began on-site mobilization and material delivery for this project. Work is expected to continue uninterrupted until an estimated completion in April 2022.

#### Primary Sludge Pump Replacement Project [CONTRACTS 2021-01G, 2021-01E]

In order to avoid bypass pumping during freezing weather conditions, DTMA Staff requested the contractors to delay start of work until April 2022. HRG will issue an agreed upon no-cost time extension to account for the revised completion date. Once initiated, the work is expected to take approximately 4 to 6 weeks to complete.

#### 2021 Sanitary Sewer and Storm Sewer Rehabilitation Project

HRG is continuing to review submittals received from Standard Pipe Services (SPS). Once submittals have been approved, SPS intends to begin the sanitary sewer CIPP lining in April 2022. Both contractors have initiated field work at this time. Farhat Excavation has mobilized and is currently completing the sanitary sewer spot repairs to allow for SPS to complete their overlapping work. Farhat Excavation started work in the Shank Park area today. SPS has cleaned and televised the sanitary sewer sections at this location in anticipation of Farhat's work.

#### ENGINEERING STATUS REPORT

##### NPDES Permit Renewal

Staff completed the additional sampling and analyses as requested by PADEP and submitted the results to PADEP. On February 18<sup>th</sup>, PADEP issued a draft NPDES permit for review and comment. Comments are due to within 30 days of the public notification made by PADEP regarding the issuance of the draft permit. PADEP comments on the Southwest WWTP Permit Renewal have yet to be received.

#### Southwest WWTP Upgrade and Expansion Project (Phase 1)

Hazen is completing final review of the bidding documents, while DTMA Staff and Hazen still are discussing the merits of including a bid alternate for post-tensioned or pre-stressed concrete tanks. There is still no update to report this month on the status of the US EDA Grant; however, Sustainable Strategies, DC, DTMA's grant application consultant, submitted additional information to US EDA in February in support of the application. Staff still intends to delay project bidding until the Authority receives notification from US EDA. Staff is also continuing to coordinate with Hazen and Londonderry Township to obtain any necessary land development plan and building permit approvals prior to construction.

#### Spring Creek Interceptor Upgrade Project

HRG has continued work on developing bid documents that include 90% design drawings and specifications. HRG is also drafting a Pipeline Occupancy Permit application for parallel occupancy of the Norfolk Southern Railway located adjacent to the project area. A meeting to review the design drawings and permit application with DTMA Staff is scheduled. Additionally, Staff is still awaiting receipt of all final permits prior to advertising for public bids.

#### High Meadow Pump Station Evaluation

HRG completed the evaluation of the High Meadow Pump Station (HMPS) and provided a draft memorandum of the recommended High Meadow Pump Station Upgrades to DTMA on January 12<sup>th</sup>. HRG met with Staff on January 22<sup>nd</sup> to discuss their findings and recommendations. As a follow-up from this meeting, HRG is performing a gravity sewer analysis of facilities downstream of the HMPS to confirm there is adequate capacity in the sewer system. Mr. Fox discussed the items from their findings that supported their recommendation that the station be entirely replaced instead of trying to rehabilitate the existing station which is currently undersized. HRG has submitted a proposal to provide engineering services required for the design of the new HMPS.

#### Clearwater WWTF Phase 1 Facility Improvements

The Phase 1 Facility Improvements planning project is nearing completion. A project workshop was held on February 21<sup>st</sup> to review progress to date on the remaining tasks. BC is incorporating comments from the recent workshop meeting and plans to submit a draft report by March 11<sup>th</sup>.

#### South Hanover Township Line Upgrade

HRG submitted a memorandum to Staff on January 21<sup>st</sup> to include a completed system modeling and a system capacity analysis to determine any impacts caused by the capacity improvements proposed by SHT's engineer for the Swatara Creek Pump Station and associated force main. On February 9<sup>th</sup>, HRG met with Staff to discuss the memorandum. Staff specifically expressed concern with the potential hydraulic capacity impacts to the Clearwater WWTP during wet weather events with SHT's proposed pumping rate capacity and the force main upsizing. It was also noted that the capacity of the Swatara Creek Pump Station, if such upgrades were enacted, would be higher than the reserve capacity allotted to SHT by the Intermunicipal Agreement (IMA). HRG is in the process of reviewing the IMA and will update the memorandum to address comments received by Staff.

#### Standard Construction and Materials Specifications

HRG continues to work on updates to the technical specifications and construction details included in the DTMA Standard Construction and Material Specifications. Updates will be based on suggestions by HRG



as well as desired changes previously noted by Staff. HRG anticipates submission of a draft of the updated specifications document in April.

#### Southwest WWTP Headworks Evaluation and Permitting

HRG has started an evaluation of the existing Southwest WWTP Headworks facilities. The goal of this evaluation is to propose recommendations for addressing issues with the existing screening and grit removal systems. HRG will evaluate the replacement of the existing equipment and will submit a memorandum summarizing the results of this evaluation to DTMA Staff by the end of March. HRG can then move forward with the preliminary design and permitting of the proposed headworks upgrades based on the results of this evaluation and subsequent direction from DTMA Staff.

#### Maintenance Garage Expansion

SGS Architects-Engineers, Inc. (SGS) has prepared and submitted to Staff the draft conceptual design plans for the various alternatives to expand the Maintenance Garage located at the Clearwater Road WWTP. Staff met with SGS on February 28 to review the draft plans prior to finalizing them in March 2022.

#### STORMWATER PROGRAM MANAGER'S REPORT

##### Hummelstown Borough MOU

At their council meeting in February, Hummelstown Borough approved and signed the MOU with DTMA, which defines the PRP project costs- and credit-sharing for the Bullfrog Valley Stream Restoration project. Per the agreement, their first payment of \$106,976.00 was received on February 23, 2022. As authorized by Resolution 2020-25, Executive Director signed the agreement on behalf of DTMA. The next payment, in the same amount of \$106,976.00, will be invoiced upon the project bid award.

##### Derry Township Parks Water Quality Improvements – Bullfrog Valley Stream Restoration

Project design is nearly 100% complete. Permit and permit waiver applications are under review. HRG and Staff are working to find source(s) for the required type of stone that will be used in the restoration and address DEP comments regarding the use of required stone. Some potential material has been identified and excavated from the 2021 BMP Retrofit Project at a Stoney Run Basin. The material from the rock channel leading to the Oakmont Community Basin was determined not to be the required rock type; however, another project has been identified that may have the required rock type. Since the rock from the Oakmont Community basin project is not the required material for this project, the projects are no longer planned to be bid together. Instead this stream restoration and the Deer Run Stream Restoration Projects will be bid together in an attempt to achieve economy of scale cost savings.

The estimated start of construction is fall 2022.

##### Deer Run Stream Restoration

Preliminary engineering and landscape design is complete and is estimated to provide over 480,000 lbs. of sediment reduction per year. Joint Permit Waiver application is approximately 95% complete. After addressing Staff comments, the application is expected to be submitted in March 2022. The Growing Greener grant application for this project was not approved. In order to reduce costs, this project is planned to be bid with the Bullfrog Valley Stream Restoration. Given the project's similarity and relatively close proximity to Bullfrog Valley Stream Restoration and its higher cost, Staff is determining if construction of this project can begin after construction on Bullfrog Valley is completed and still meet PRP goals.

#### 2021 BMP Retrofits (Stoney Run Basins 1 and 2 and Brookside Park)

Kinsley Construction, Inc. has begun construction on Stoney Run Basin 1, which was paused briefly to ensure Township approval of staging areas and trail closure locations and to give the Township time to inform the public of the trail closures. Construction has since resumed. Rock material excavated from this basin can likely be used in the Bullfrog Valley Stream Restoration Project. Construction of Stoney Run Basin 2 is nearly complete by Kinsley, and will be finished when the backordered outlet pipe material becomes available.

At Kinsley's request, HRG will be applying for a minor amendment to the Brookside Park permit to increase the construction limit of disturbance (LOD), allowing them to access the construction areas via more stable ground than the permit currently allows. Kinsley is assuming the cost of this amendment.

B. Link made a **motion** to pay Kinsley's application for payment in the amount of \$100,257.52 to be paid out of the Stormwater Operating Fund. J. Canavan seconded. The motion passed unanimously by voice vote.

#### PRP Amendment

The initial PRP plan has evolved and changed as the target project designs began to finalize and pollutant reduction calculations became more precise. Since the PRP projects have changed since the plan was first produced, a PRP Amendment is required to update the public and DEP. HRG has been contracted to draft and lead the PRP Amendment process, which will be coordinated with Hummelstown Borough as much as possible.

#### Forest Avenue Basin and Swale Improvements

The permit application was submitted at the beginning of January and is pending with DCCD. Easements with the Hershey Medical Center must be secured prior to construction. Bidding will occur upon permit receipt. Estimated start of construction is in late spring 2022.

#### Oakmont Community Basin Retrofits

Project design will be finalized upon approval of the easement with Hershey Trust. Staff had been planning to combine bidding and construction of this project with the Bullfrog Valley Stream Restoration Project because the stone from this project could potentially be reused in the Bullfrog Valley Stream Restoration Project. Testing of this stone revealed that it is not the desired, local mud-/siltstone. This project is now planned to be bundled with the Forest Avenue Basin and Swale Improvements project since both projects are similar types of projects and both require obtaining easements with the Hershey Trust. This project will replace the failing culvert under Wood Road at Limerick Lane and will protect downstream sanitary sewer infrastructure. The estimated start of construction is fall 2022.

#### The Meadows Outlet Structure Replacement

The Meadows development's main stormwater basin, located on the south side of Nye Road near Sandhill Road, ultimately outlets 20 feet below the north side of Nye Road. The basin outlet structure is failing and requires immediate replacement. Staff has been in discussion with the HOA to provide assistance with addressing the outlet structure. The basin and drainage swale leading to it have been identified for potential PRP credit in the next permit cycle. Due to the deteriorated state of the outlet structure and the potential impacts to Nye Road, staff is coordinating with HRG and the HOA to address the immediate need of fixing the outlet structure. A Memorandum of Understanding has been drafted by Staff with input provided by Solicitor Pykosh and was presented for Board approval.



#### Stoverdale Road and Shopes Church Road

The final design is 90% complete. Staff is working on easement acquisition. The bid package is being prepared for public bidding, which is expected to begin in spring 2022. The location of other utilities may complicate the Stoverdale Road Culvert Replacement.

#### Clark Road and Stonecutter Circle

The design of both projects is essentially 90% complete. Easement exhibits are being prepared. The necessity of the Clark Road project is being reevaluated. Bidding and construction are planned for spring 2022.

#### Ridge Road Drainage Improvements

The Stormwater Program Manager reviewed the requirements for this project and requested input from the Board regarding the timeline of construction for the Ridge Road Drainage Improvement Project.

Ms. Ryan explained that due to storm sewer surcharge during intense rainfall events, the storm sewer pipes along the intersection of Ridge Road and Chocolate Avenue (PA State Route 422) need to be upsized to increase capacity and prevent roadway flooding. The PennDOT HOP for the designed improvement was issued in February 2022. The construction of this project is expected to take approximately 90 days.

Because Chocolate Avenue is a PennDOT-owned roadway, the asphalt paving season is restricted to April through October of any given year, which limits the timing for construction activities on this project. Additionally, traffic volume at this intersection peaks over these same months due to tourism for Hersheypark, to which Ridge Road leads. This year, Hersheypark is scheduled to open April 12<sup>th</sup>. The intersection of construction is the final intersection prior to Park Avenue (southern entrance road to Hersheypark) and has experienced severe congestion since the redesign of the railroad underpass from Ridge to Park. In addition to the Ridge Road Drainage Improvement project, the Township is planning the SR422 Streetscape project, which entails improving pedestrian crosswalks along Chocolate Avenue, including the crosswalk at Ridge Road. Construction for that project is anticipated to occur sometime by the end of summer/early fall 2022. Activities for this project at the Ridge Road intersection should be completed after the completion of the Ridge Road Drainage Improvement project since the drainage project requires excavation.

Further complicating matters is the timely availability of the required construction materials. Currently, the design calls for plastic pipe in the Township ROW and concrete pipe in the PennDOT ROW. Plastic pipe supply orders are currently experiencing a 6-month lead time, while concrete pipe supply order are currently experiencing a 2-month lead time.

Ms. Ryan noted that because of the critical location and extenuating circumstances of work in the Ridge Road area, DTMA Staff is coordinating construction timelines with Township Staff. The following options were presented to consider for construction timing:

1. Construction on schedule with materials as designed (using concrete and plastic pipe). While this would provide time to budget for the project, it would likely delay the start of the project until 2023. In turn, that would delay the Township's Streetscape project at the same location.
2. Substitute concrete pipe for plastic pipe, making the entire project concrete pipe. This would permit the project to be started in July or August and completed within PennDOT's asphalt paving season and prior to the start of the Township's Streetscape project. However, this option would likely result in increased costs of approximately \$50,000.



The Board discussed the options and instructed Staff to continue with the project using all concrete pipe even though there would be an additional cost for materials. This option still provides for the completion of the project as scheduled and does not provide significant interference with the Township's Streetscape project already planned for 2022.

#### **ITEMS FOR ACTIONS**

**Resolution #2022-10 – Ratification of project payments from the 2020 Capital Project Funds:** Staff reviewed the payments from the 2020 Capital Project Fund requiring Board ratification. This resolution was then approved on a motion by B. Link, seconded by R. Furlan. The motion passed unanimously by voice vote.

**Resolution #2022-11 – Acceptance of HRG proposal for the High Meadow Pump Station Design Phase Services:** This Resolution passed on a motion by R. Furlan, seconded by B. Link. The motion passed by voice vote. D. Feidt abstained from voting due to a business affiliation with HRG.

**Resolution #2022-12 – Approval of Memorandum of Understanding with the Meadows of Hershey Homeowners Association:** This resolution was approved on a motion by J. Canavan, seconded by B. Link. The motion passed unanimously by voice vote.

#### **NEW BUSINESS**

There was no further business at this time.

#### **PUBLIC COMMENT**

There was no public comment at this time.

#### **ADJOURNMENT**

With no further business to come before the Board, J. Canavan made a motion to adjourn the February 28, 2022 public meeting at 7:40 p.m., seconded by B. Link. The motion passed unanimously by voice vote.

  

---

(Assistant) Secretary