

WEST GOSHEN SEWER AUTHORITY
REGULAR MEETING
January 4, 2017

The regular meeting of the West Goshen Sewer Authority was held on Wednesday, January 4, 2011 at the West Goshen Township Administration Building. Those present were:

Authority

Dan Tierney
Phil Corvo
Theodore Murphy
Shaun Walsh
Tinamarie Smith

Administration

Casey Lalonde
Dave Woodward
Mike Moffa

Unruh, Turner

Ross Unruh

HRG

Josh Fox

The regular meeting of the Authority was called to order at 7:36 P.M. by Ted Murphy.

Phil Corvo motioned to approve the December 7, 2016 meeting minutes, seconded by Tina Smith. Approved 5-0

Authority Chair and Member announcements:

Dan Tierney motioned to keep all Authority Members positions, Solicitor and Engineer the same, seconded by Shaun Walsh. Approved 5-0

On January 3, 2017, West Goshen Township Supervisors appointed Authority Members at their Reorganizational Meeting. Phil Corvo and Dan Tierney were reappointed to 5 year terms.

Treasurers Report (See Attached) was presented by Dan Tierney. Dan Tierney motioned for the approval of requisitions/bills to be paid, seconded by Phil Corvo. Approved 5-0

Solicitors Report was presented by Ross Unruh.

Ted Murphy motioned to release \$44,297.39 to the Reserve @ West Goshen after testing is satisfactory, seconded by Shaun Walsh. Approved 5-0

Josh Fox gave the Engineers report dated December 30, 2016: (See report for details)

Josh Fox's request for motions (See report for details)

Dan Tierney motioned to approve Payment No. 2 to F.W. Houser, Inc. in the amount of \$52,209.00, seconded by Phil Corvo. Approved 5-0

Ted Murphy motioned to approve Advertisement for Headworks Improvement Project 17-1 and 17-2, seconded by Phil Corvo. Approved 5-0

Ted Murphy motioned to approve the final individual purchase agreements for Headworks Improvement Project, seconded by Shaun Walsh. Approved 5-0

Ted Murphy motioned to approve the Work Change Directive for MH 1206 on Lincoln Avenue, not to exceed \$50,000, seconded by Tina Smith. Approved 5-0

Bond Process

Dan Tierney motioned to expedite the Bonds according to the schedule, seconded by Ted Murphy. Approved 5-0

There being no further business, on a motion by Shaun Walsh seconded by Ted Murphy, the meeting was adjourned at 10:10 PM.

Respectfully submitted,

Lisa Covatta, Recording Secretary



The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (WGSA) and West Goshen Township (Township) from December 3 through December 30, 2016:

Projects in Construction

Structural Repairs to Primary Clarifier No. 3 (004194.0438):

\$6,500 of the Contract Price is being retained until two shrinkage cracks are pressure grouted. The work cannot be completed until the temperatures are consistently 40 degrees F or above. M2 Construction will complete the work as soon as there is a positive break in the temperatures.

Contract 16-1: 2016 Sanitary Sewer System Repair Project (007608.0425):

Work continues for Contract 16-1. All work related to Milestone No. 1 has been completed. Manhole lining continues with work along Lincoln Avenue. During the preparation of manhole MH 1206 for lining, it was determined that the manhole could not be lined and therefore should be replaced. We have requested pricing from NWMCC for completion of the work. Once pricing is received and approved, we will prepare Change Order No. 2 for the Authority's review and approval. If the Change Order is not available for the January 4th Authority Meeting, we will prepare a Work Change Directive to allow the work to proceed in a timely manner.

The Change Order will also include emergency repair work that was completed between manhole WT-1 and WT-2 as described in the attached correspondence. This change will be formalized for the Authority's approval upon receiving the additional information requested by HRG on December 19, 2016. The current estimated cost for the additional work is \$5,225.00

No application for payment was submitted by NWMCC this month.

Contract 16-2: WWTP Emergency Generator Replacement (004194.0437):

Work continues for Contract 16-2. Work items completed to date include the following:

1. Installation of all outdoor underground electrical conduit ductbanks and related concrete encasement leading from the Sludge and Blower Building to the new generators.
2. Installation of the concrete support pad and concrete footings for the new generators and generator platforms.
3. Installation of the docking station and related concrete pad.
4. Delivery of the ATS.
5. Delivery and interim placement of the two new emergency generators.

Installations of electrical conduit and wiring for the new generator and related equipment inside the Sludge and Blower Building continues. There was some delay in the delivery of the new generators, and a redesign of the ATS pullbox as proposed by the manufacturer was requested after review of their related shop drawings. The anticipated project completion date is now approximately February 17, 2017.



Turnover to the new generator system, with related equipment testing and temporary shutdowns, is planned to begin the third week of January 2017. The Authority, HRG, and Contractor have discussed procedures to be enacted during testing, shutdown and turnover to minimize treatment plant disruption; emergency bypass pumping equipment will be in place and on standby as a precaution during this work.

The Contractor and HRG continue to finalize some modifications to the Sludge and Blower Building to accommodate a motorized rollup door (e.g. overhead lintel placement, transition between outside concrete apron and interior floor slab, etc.). A change order request to account for the modifications required for a motorized door is forthcoming from the Contractor.

Additional maintenance to the existing incoming power switchgear prior to its temporary shutdown has also now been planned by the Township. This will ensure that the existing switchgear will be functional during the temporary shutdown(s) that will be required when turning over to the new generators and when completing the final wiring of the corresponding new electrical hardware and equipment within the Sludge and Blower Building.

The new conduit was not installed symmetrically on the new generator pad as identified during the December 28 site visit. While this does not impact the functionality of the system it does impact the location of the access platform footings and the aesthetics. HRG is working with the Contractor to develop a functional solution.

HRG recommends that the Authority approve Application for Payment No. 2, as submitted by the Contractor, in an amount of \$52,209.00 for work completed through December 16, 2016.

Other Projects/Tasks

WWTP Grit Removal System Replacement and Headworks Improvements (004194.0434):

Work is being completed to prepare the final bidding documents and engineer's opinion of probable cost. As discussed, final design has incorporated replacement of the failing utility water system and additional stormwater controls at the WWTP. We are working to obtain final purchase agreements from vendors for COSTARS approved equipment/pricing. HRG will submit final purchase agreements to the Authority and your Solicitor for review and approval upon receipt. We are currently expecting to have six purchase agreements for an estimated cost of \$813,000. Additional work for the Headworks Improvement Project included significant modifications to the existing electric hoist system, new utility water system, building addition, and lower bearing assemblies, explosion proof motors, and pump control panel for the existing screw pumps.



Pending receipt of the final purchase agreements, the anticipated remaining project schedule is as follows:

Advertise for Public Bids	January 18, 2017
Pre-bid Conference	February 1, 2017 (10:00 AM)
Open Bids	February 17, 2017 (1:00 PM)
Notice of Intent to Award	February 21, 2017
Notice of Award/Notice to Proceed	March 2, 2017 (Approved at 3/1 Authority Meeting)
Substantial Completion	December 27, 2017
Final Completion	January 26, 2018

By-Pass Pump Station Connections (007608.0435):

Topographic survey has been completed for Downing Avenue Pump Station, Westtown Way Pump Station, and Taylor Run Pump Station. Basemapping has been completed for the Downing Avenue Pump Station. Preliminary design will begin upon completion of the basemapping.

Tapping Fee Study:

HRG will be meeting with Township Staff to review the information request and discuss the previous Study completed by Glace Associates. Following this meeting, it is anticipated that work will be able to begin.

Anaerobic Digester Replacement / Emergency Repairs:

Emergency Repairs (007608.0426)

Submittals for some equipment have been received and reviewed with Eastern Environmental. Eastern Environmental is preparing a schedule for the Authority and Township's use.

Anaerobic Digester Replacement (007608.0433)

Topographic survey and basemapping of the WWTP has been completed. This survey will be useful in future projects such as the WWTP Phase II Improvements and the Enhanced Chemical Addition Project. The Request for Determination (RFD) for Air Quality Plan Approval has been submitted to PA DEP for review. Work began on December 29 reviewing proposed sites for the new anaerobic digester tanks. A confirmation of assignment has been prepared and provided identifying the scope, schedule, and estimated fee consistent with the Authority's authorization to proceed received on November 2.

WWTP Driveway Entrance Improvements (007608.0430):

Keystone Engineering had a site coordination meeting with the Township's security company to review the proposed automated gate layout and fob entrance system. Utility relocation efforts continue.



ENGINEER'S REPORT
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TMDL (007608.0426):

HRG prepared the draft EPA Progress Report No. 6 and provided to the Authority's Solicitor and Special Counsel on December 30. Authority Members and Township Staff met with HRG's Process Design Team on December 8 to review the COMAG facility installed in Boyerstown, PA.

Bond Financing (007608.0426):

Two conference calls were held with Bond Counsel and Royal Bank of Canada (RBC) to review the project(s) scope and schedule. A full verbal report will be given at the Authority meeting.

2017 Sanitary Sewer System Repairs (007608.0436):

A meeting was held on December 8 at the WWTP with Township Staff to review defects located in the sanitary sewer collection and conveyance system, the potential effects for the 2017 Township Paving Schedule, and whether the work could be completed by Township Staff. HRG is currently reviewing CCTV and other inspection data provided by the Township. We anticipate having a complete scope of recommended repairs to the Authority for consideration at their February Meeting.

Please feel free to contact me if you have any questions regarding this report or other items.

Respectfully submitted,

Herbert, Rowland & Grubic, Inc.

Joshua T. Fox, P.E.
Regional Service Group Manager

Enclosures

007608.0426

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- c: West Goshen Sewer Authority (w/encl.)
- Casey LaLonde, Township Manager (w/encl.)
- Dave Woodward, Public Works Director (w/encl.)
- Mike Moffa, WWTP Superintendent (w/encl.)
- File (w/encl.)



DEVELOPER'S ACTIVITY REPORT
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The following summarizes recent activities performed on behalf of the West Goshen Sewer Authority (WGSA) for developer activities within the sanitary sewer service area:

Jerrehian Estate-Large Tract-Woodlands at Graystone-#126-02/03/16 Balance: \$969.80

Last Activity-December 2016

HRG completed a sewer system capacity study to evaluate the downstream impacts of the Development during average, peak, and peak wet weather events. A memorandum of the findings will be provided and reviewed with the Authority at their December 2016 Meeting.

In summary, HRG is recommending the upgrade of downstream 8-inch diameter sanitary sewer mains to 10-inch diameter and that temporary flow metering be provided to verify actual flow conditions.

Construction and Design, Inc. /Goshen Leisure Development-#181-02/03/16 Balance: \$0.00

Last Activity-November 2015

Plans are for six (6) office/warehouse type buildings. The development is located off North Hagerty Boulevard on a 21-acre tract. The sanitary sewer right of way was recorded by Ross eighty nine (89) months ago.

Two buildings are currently under construction. The video inspection crew has televised these lines so the as-builts can now be completed.

The Arbours at West Goshen-#188-02/03/16-Balance: \$202.32

Last Activity-July 2016

This is a 220 unit retirement community along Ward Avenue and the West Chester Reservoir. They are continuing to construct a few more houses in the development this month. They have asked for dedication of their sewage facilities they have installed. They provided as-builts for Phase I and Phase II.

Glance and the Solicitor reviewed the Maintenance Bonds.

Arbours Square-#DD188A-04/06/16 Balance: \$352.50

Last Activity June 2016

This is for independent living units with a skilled nursing care component adjacent to the Arbours development near the airport. This involves tying into an existing sanitary sewer line installed for Terramics which was never built. There were no major issues with the proposed sewer plans. The developer's engineer sent revised plans seven months ago and a review letter was generated on November 30th. It has a distinct developer from Westrum Development but Westrum will build the facility. The accounts will be kept separate.



Wexford Mews-#200-02/03/16 Balance: \$1,170.01

Last Activity-September 2015

This is located off Wexford Drive near Kirkland Avenue. One of the seven new homes was constructed in West Whiteland Township. There are a few minor items to be addressed construction wise on the sanitary sewer system. Glace received as-built plans. They are almost complete. They have asked for dedication of their sewage facilities they installed. Nothing new this month.

Zarelli Subdivision 825 Goshen Road-#205-02/03/16-Balance: \$3,278.89

Last Activity-August 2016

This is now a proposed 7-lot single-family residential subdivision at 825 Goshen Road. There are seven new homes proposed with the existing home lot to be subdivided into two lots. The sewer will flow through the Greystone Development and be served by Taylor Run Pumping Station. Revised plans were received in February 2016. A review letter was sent out in early May after they were supposed to post a new escrow account. Confirmation of receipt of this additional escrow deposit has not been received yet. The revised plans addressing our comments were received on May 26, 2016 and another review letter was sent out.

Work included reviewing the proposed utility easements and review of the financial security for the sanitary sewer improvements. Comments were returned to the Township and the Developer on August 24, 2016.

Kirkland Woods-#218-02/03/16 Balance: \$2,486.82

Last Activity-March 2010

This is a new proposed seven (7)-lot single family residential subdivision on a 4.3 acre lot at the southwest intersection of Kirkland Avenue and Ashbridge Road. A single house currently on the property is to be torn down and seven (7) new houses constructed. There are no major concerns with the proposed sanitary sewer system to service the development. The homes will be served by gravity sewer and flow to the Northeast Interceptor. The sanitary sewer main needs extended but no rights of way are involved. A developer's agreement will need to be entered into between the Authority and developer. The plan received approval from the Township and they have contacted Ross and our office to establish a construction escrow account. Glace reviewed and approved the construction escrow account.

Jerrehian-3 Lot Subdivision-#229-02/03/16 Balance: \$2,839.68

Last Activity-July 2011

For the proposed three (3) lot subdivision which was an existing home and two (2) new lots, there were a few minor comments. Horizon Engineers called and discussed both reviews and agreed to make the requested changes five years ago. The WCASD has signed an agreement to dedicate the gravity lines and rights of way to the existing small pumping station at the athletic fields to the Authority.



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Pica's Restaurant #233-02/03/16 Balance: \$1,202.50

Last Activity- December 2015

This is for a restaurant on Route 3 on a previously constructed site. New plans were provided to our office twenty four (24) months ago. Glace are discussing extending the sewer main across the rear of their property. Discussed with Ross and developer's engineer. The owner is considering not installing the sewer main at this time through his property.

Summit Realty-#235-02/03/16 Balance: \$1,567.00

Last Activity-April 2015

This was for a proposed WAWA, CVS Pharmacy and bank at the southwest intersection of Five Points Road and Route 3, east of the Borough. It was the former site of James Chevrolet. A second review letter was done twenty five (25) months ago and the sanitary sewer design was approved by our office. Glace reviewed and approved their sanitary sewer escrow account. Site work is continuing and is almost complete. A WSFS bank branch is proposed to be constructed on the last building pad. A review letter for the WSFS Bank branch was sent out four months ago to the developer and township. A single tapping fee was submitted to WGSA in May for the bank building.

West Chester University-#241-02/03/16 Balance: \$500.00

Last Activity-October 2015

This is for the demolition of several buildings on Rosedale Avenue and constructing a new 10,800 sf three story office building for the University.

Ice Line/Howell #242-Last Activity 04/06/16: Balance \$500.00

This is an upgrade to the Ice Line property which was received by the Township four months ago. A review letter was sent out four months ago. There are no major issues with the proposed sanitary sewer design for the sewer lateral.

Reserve at West Goshen-1210 West Chester Pike #244 Balance: \$1,723.50

Last Activity August 2016

This is for a 28 unit townhouse community where the former Morrow Plumbing Supply was located along the south side of West Chester Pike. This will be an extension to the Authority system. An initial review letter was sent out on this project. A right of way will be required.

Work included review of the financial security for the sanitary sewer improvements. Comments were returned to the Township and the Developer on August 3, 2016.

Islamic Society- #245 Last Activity June 2016- Balance-\$2,235.00

This land development plan was reviewed last month. There are a number of revisions required. They were sent the new cash escrow form for the developer to sign. There is a review fee for UTB&F this month in the amount of \$120.00 which is not reflected in the balance above.



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Smoothie King - #246 1011 West Chester Pike: Balance: \$500.00
Last Activity July 2016

This land development plan includes the demolition of an existing single story structure and construction of a new Smoothie King with drive-thru at 1011 West Chester Pike. The Land Development Plans dated May 5, 2016 were reviewed and comments provided to the Wastewater Superintendent for review and comment.

WG Chester County Hospital Expansion - #247 701 E. Marshall Street: Balance: \$-1,254.70
Last Activity December 2016

We have reviewed the Penn Medicine Chester County Hospital Building Expansion Plans dated August 2, 2016 and last revised October 25, 2016 as prepared by SSM Group, relative to the sanitary sewer system revisions. From the sanitary sewer perspective, these plans will be acceptable for construction purposes with the following condition:

1. As soon as it is available, information will need to be provided to the West Goshen Wastewater Superintendent regarding anticipated chemical usage at this facility. The Wastewater Superintendent may require that a Wastewater Discharge Permit be obtained for this facility and the wastewater discharge be monitored on a regular basis.

The Developer's Engineer must still submit an Opinion of Probable Construction Cost for Site Improvements so that we can recommend an amount for financial security.

The Sewage Planning Module was recommended, authorizing 9,600 gallons per day capacity in Taylor Run.

Please feel free to contact me if you have any questions regarding this report or other items.

Respectfully submitted,

Herbert, Rowland & Grubic, Inc.

Joshua T. Fox, P.E.
Regional Service Group Manager

R007608.0426

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c: West Goshen Sewer Authority
Dave Woodward, Public Works Director
Mike Moffa, WWTP Superintendent
File

**WEST GOSHEN SEWER AUTHORITY
DECEMBER 7, 2016**

WGSA TAPPING FEE FUND REQUISITIONS

REQUISITION NO.	PAYEE	INVOICE NUMBER	PURPOSE	AMOUNT	CK NO.
1740	GHD Services Inc.	806632	Goose Creek TMDL Support	\$457.50	1564
1741	National Water Main Cleaning Company	2016-1	2016 Sanitary Sewer Sys Repairs	\$117,008.10	1565
1742	William M. Dunleavy & Co. Inc.	11-01-2016	Emergency Digester Repair	\$2,748.00	1566
1743	Mitchell Mechanical, LLC	552-10469	Clarifier Rehab	\$2,416.90	1567
1744	Herbert, Rowland & Grubic, Inc.	115593	Headworks Improvement Project	\$19,554.00	
		115594	WWTP Emergency Generator	\$8,131.69	
		115595	Primary Clarifier No. 3 Review	\$3,383.55	
		115596	2016 Sanitary Sewer Sys Repairs	\$9,236.41	
		115598	Enhanced Chemical Addition	\$15,830.46	
		115602	WWTP Entrance Improvements	\$7,815.48	1568
1745	Unruh Turner Burke & Frees	141320	TMDL Appeal to EHB	\$40.00	
		141324	Capital Projects-Collection System	\$120.00	
		141325	Capital Projects-General	\$1,340.00	
		141326	Capital Projects-Anaerobic Digester	\$1,320.00	1569

DEVELOPER'S INVOICES

#	DEVELOPER	ENTITY	INVOICE NUMBER	PURPOSE	AMOUNT
237	Traditions	Traditions Development Corp.	close acct	project complete	\$205.00
126	Woodlands	Unruh Turner Burke & Frees	141322	Legal	\$680.00
188A	Arbours at West Goshen Phase 2		141323	Legal	\$60.00
					\$740.00
					1571

GENERAL INVOICES

ADMINISTRATION	ENTITY	INVOICE NUMBER	PURPOSE	AMOUNT
	Herbert, Rowland & Grubic, Inc.	115449	Tapping Fee Analysis	\$377.50
		115597	General Engineering (Retainer)	\$7,355.23
	West Goshen Twp	11-2016	Nov 2016 Admin Fee	\$1,250.00
				\$7,732.73
				1572
				\$1,250.00
				1573

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	21st Century Media	1180355	Advert-WGSA 11/15 mtg	\$78.85	1574
	Unruh Turner Burke & Frees	141319	General Legal	\$2,840.00	1575

Tapping Fee Fund
 Developers \$189,402.09
 General \$945.00
Total Amount \$11,901.58
\$202,248.67

1/26/2017