WEST GOSHEN SEWER AUTHORITY REGULAR MEETING November 2, 2016

The regular meeting of the West Goshen Sewer Authority was held on Wednesday, November 2, 2016 at the West Goshen Township Administration Building. Those present were:

Authority Unruh, Turner
Ross Unruh

Dan Tierney Phil Corvo

Theodore Murphy

Shaun Walsh

Tinamarie Smith Casey Lalonde Josh Fox

Dave Woodward Mike Moffa

Administration

HRG

The regular meeting of the Authority was called to order at 7:30 P.M. by Ted Murphy.

Dan Tierney motioned to approve the October 5, 2016 meeting minutes, seconded by Phil Corvo. Approved 5-0

Phil Corvo motioned to approve the October 12, 2016 meeting minutes, seconded by Ted Murphy. Approved 5-0

Wastewater Superintendent Report was presented by Mike Moffa.

Solicitor's Report presented by Ross Unruh.

Ted Murphy motioned to approve a new Part 2 permit and signature for the Jerrehian Estate, seconded by Dan Tierney. Approved 5-0

Ted Murphy motioned to approve that the December 7th meeting begin at 6:30 to discuss the Bond for Capital Improvements, seconded by Dan Tierney. Approved 5-0

Dan Tierney motioned to keep in HRG's retainer agreement a \$5,000,000.00 limit of liability and the WGSA to be named on the Certificate of Insurance, seconded by Tina Smith. Approved 5-0

Treasurers Report was presented by Dan Tierney.

Dan Tierney motioned for the approval of requisitions/bills to be paid, seconded by Ted Murphy. Approved 5-0

Josh Fox gave the Engineers report dated October 28, 2016: (See report for details)



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369 East Park Drive Harrisburg, PA 17111 (717) 564-1121 FAX (717) 564-1158

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (WGSA) and West Goshen Township (Township) from October 1, 2016 through October 28, 2016:

Projects in Construction

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

On October 12, an inspection of the Work was made at the request of M2 Construction and the Work was determined to be substantially complete as of that date. HRG has completed a tentative list of items to be completed or corrected by the Contractor (punchlist) and provided it with the Tentative Certificate of Substantial Completion to the Authority. The Authority has seven days (or until November 3) to make/provide comments on the Work. At that time the Definitive Certificate of Substantial Completion will be issued.

We are recommending that the Authority approve Application for Payment No. 2, as submitted by M2 Construction, LLC in an amount of \$128,360.84 and Application for Payment No. 3, as submitted by M2 Construction, LLC in the amount of \$63,737.75.

\$6,500 of the Contract Price is being retained until all work items remaining are either completed or corrected. We anticipate that the Final Payment will be requested at the Authority's December 2016 meeting.

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

Work continues for Contract 16-1. All of the spot repairs and manhole replacements have been completed to-date with the exception of manhole 1221 at Metro Apartments. Replacement of manhole 1221 is scheduled to be completed on November 1 by Wexcon, subcontractor to NWMCC. Manhole rehabilitation is expected to begin on October 31 and CIPP lining work is scheduled to begin on November 3.

Work pertaining to Milestone 1 (October 15, 2016) remains uncompleted. The Authority has the right, under the terms of the Contract, to assess liquidated damages of \$350 per day until all work required under Milestone No. 1 is completed. This was addressed with the Contract at Job Conference No. 2 held on October 26. A copy of the meeting minutes are enclosed for your review and use.

We are recommending that the Authority approve Application for Payment No. 1, as submitted by National Water Main Cleaning Company in the amount of \$117,008.10 for work completed.

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

The preconstruction conference was held on October 12. A copy of the preconstruction meeting minutes is attached for your review and use.

A request for proposals was requested by the Township to replace the manual pull-up door with an electric door opener. HRG will prepare a Change Order once the costs have been identified.



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A concern over the distance between the docking station, emergency generator, and the electric service was brought up at the meeting. The concern is that if PECO takes ownership of the service, is there sufficient distance between the equipment and the service to meet PECO requirements.

After following-up with PECO they confirmed that the distances provided in the Contract, meet their requirements of 10-feet clearance around all equipment and 30-feet clearance to any flammable materials.

The Contract Times and Project Milestone are as follows:

0	NTP	October 11, 2016
•	Contract time begins to run	October 5, 2016
	Docking station delivery	Week of November 18, 2016
	ATS delivery	November 18, 2016
	Generator shipping date	December 22, 2016
	Substantial Completion per Contract Doc.	90 days (January 3, 2017)
	Final Completion per Contract Doc.	30 days (February 2, 2017)

The next job conference is currently being scheduled and is anticipated to be held next week.

Other Projects/Tasks

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

HRG continues to work on the final design of the Grit Removal System and Headworks Improvements to include final structural design, mechanical design, and electrical and control design. Once completed, HRG will provide a copy of the Contract Documents to the Authority's Solicitor for review.

We are still on schedule for advertising the Project for public bids following the Authority's January 2017 meeting.

Pump Station No. 10

Pending the Authority's approval of the proposal from Advantage Engineers to complete the geotechnical investigation at the pump station site, the geotechnical work is scheduled to be completed prior to January 1, which begins the Bald Eagle breeding season.

If the Authority approves the revised Capital Improvements Schedule, the design work would begin July 2017.

Tapping Fee Study

HRG has reviewed the Authority's 2010 Tapping Fee Analysis and developed a list of data needs in order to update the study based upon current system equity and verify the appropriateness of historic calculations. This list of data needs has been submitted to West Goshen for review and discussion. Updates to tapping fee calculations will be made following receipt of requested data.



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Enhanced Chemical Addition/CFA Small Water & Sewer Grant Application (007608.0432)

The Enhanced Chemical Addition Water Quality Management Part II Permit Application was submitted to PADEP on October 28, 2016. In addition, the CFA Small Water and Sewer Grant Application was submitted on October 28, 2016.

Anaerobic Digester Rehabilitation / Emergency Repairs

Emergency Repairs

Roofing work on the Primary Digester was completed on Tuesday, October 25. This work included removing a 3 to 4-inch wide strip of the rubber roofing at the top of the curb, sealed down the building side with caulk, and left the digester roof side open to breathe any gas that might get under the rubber membrane. After removal of the strip of membrane, they installed an elevated aluminum cover over the entire curb to allow any gas to escape from underneath but keep water from getting under the membrane.

Eastern Environmental Contractors (EEC) will be completing the following work over the next several months:

- 1. Installation of temporary shoes to replace the non-functioning rollers on the Secondary Digester Cover. This will help prevent the roof from torqueing or tilting.
- 2. Replacement of the existing gas pressure and vacuum relief assembly on the Primary Digester Cover including flame arrestor.*
- 3. Replacement of the existing gas pressure and vacuum relief assembly on the Second Digester Cover including flame arrestor.*
- 4. Replacement of some of the 2-inch and 3-inch piping that is restricting gas flow, potentially causing the pressure relief assemblies to operate more frequently than needed.
- 5. Installation of low-pressure check valves on gas piping between the Primary and Secondary Digester to prevent the build-up of gas in the Primary Digester.
- 6. Replacement of the gas piping from the digester piping from the Building to the flare stack including removal of the PVC line that is connected to the gas feed line at the base of the stack.
- 7. Replacement of the flare stack* on existing concrete pad and the installation of a flame arrestor on the gas feed line.
- 8. Removal of pressure relief valve on the Digester Building Roof next to sanitary waste vent stack.
- 9. Replacement of all "homemade" drip traps.*
- 10. Replacement of non-functional 3-way plug valve with individual isolation valves.*
- 11. Recalibrate the gas meter.
- 12. Replacement of the combination pressure relief valve and flame arrestor on the first floor in the Digester Building.*
- 13. Replacement of all manometers.*
- 14. Replacement of the low-pressure check valve on the discharge of the gas compressor to the feed boiler.*

The work is proposed to be completed in three major components. Item No. 1 can be completed within the next couple of weeks. Item Nos. 2 and 3 can be completed within 4-6 weeks depending on when the equipment can be delivered. Other equipment is expected to be delivered within 14 weeks. Item Nos. 4-14 will be completed together after remaining equipment is installed.



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Items identified with a * will be able to be reused in whole or in part for any upgrade/improvement project.

EEC is pricing Shand & Jurs and Varec equipment for cost and schedule comparison. The Authority will be able to purchase the equipment either directly or through EEC.

Anaerobic Digester Rehabilitation

As requested by the Authority, HRG has reviewed the costs to construct two new anaerobic digesters inlieu of rehabilitating the existing digesters. Numerous assumptions needed to be made including location, depth of excavation, etc. in order to develop a construction cost estimate at this time. The additional cost to construction two (2) new anaerobic digester tanks is approximately \$767,000 or \$959,000 maintaining a 25% contingency. The addition of these new tanks to the Anaerobic Digester Improvement Project would increase the overall cost to approximately \$3,609,000.

WWTP Entrance Improvements

The initial design of the turning radius and driveway cut has been completed. HRG is working to schedule a utility meeting with PECO, Aqua, and Verizon to discuss and review potential impacts to utilities. HRG's subconsultant, Keystone Engineering Group, is beginning design work next week on the automated gate and entry system.

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

JTF/rb 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.)



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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:

New Village Of Shannon - Shadeland Woods - Dewey Homes-#048A- 02/03/16 Balance (-\$332.00) Last Activity-January 2016

Phase 5 of the Village of Shannon has been re-named Shadeland Woods. The sewer mains have already been constructed. They are continuing to construct units in this development. Ross contacted the Township about finalizing the sewer portion of the project. The treatment plant crew has televised the lines in the development so the as-builts can now be completed. The Township should be reimbursed for their video camera time and Glace needs to finalize the as-builts.

Jerrehian Estate-Large Tract-Woodlands at Graystone-#126-02/03/16 Balance: \$2,394.80

Last Activity-September 2016

Glace finished the sixth review of the sanitary sewer plans for the proposed 598 unit development seventeen months ago. They are still proposing two (2) pumping stations. The initial review letter was sent out seventy two (72) months ago. Glace met with Horizon Engineers and a pump station supplier thirty six (36) months ago. There were some deep gravity sewer lines and pump station wet wells which were a concern. Glace made several suggestions to minimize the depths and the developer's engineer agreed to the changes. Revised plans for the pumping station site were provided thirty two (32) months ago and twenty seven (27) months ago Glace received revised plans in response to our comments and the Part 2 Construction Permit for the sanitary sewer mains and pump stations. Glace did receive updated sewer main drawings thirty four (34) months ago. The DEP construction permit was issued on January 26, 2015. The HOP was extended for the sewer line involvement in the PennDOT ROW. They are still waiting for an Army Corps of Engineers approval and resolve some issues with the Township. Max spoke with Horizon Engineers four months ago and there are only a few remaining approvals required prior to final approval.

A conference call was held with the Township to review additional pump station requirements that were identified in the Township's recommended Capital Improvement Plan including by-pass pump connection and Trystar Docking Station. The Township's Engineers are reviewing the sanitary sewer and pump station design.

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.

Glace and the Solicitor reviewed the Maintenance Bonds.



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Arbours Square-#DD188A-04/06/16 Balance: \$452.50

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: \$3,398.89

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.

Gavin Property - 415 Goshen Road-#207-02/03/16 Balance: \$2,380.11

Last Activity-January 2016*

This is a proposed 5-lot single-family residential subdivision at 415 Goshen Road. There are four new homes proposed and an existing home. The sewage will flow through the Kirby's Woods Development and will be served by the Taylor Run Pumping Station. Glace are waiting for the off-site right-of-way to be provided for review and forwarding to Ross. A home has been built on a lot which had an existing lateral. Ross has been in touch with the Township and developer's attorney about conditional approval.

Liberty Tools-#213-02/03/16- Balance-\$1,173.32

Last Activity-October 2009

This is for a 20,802 s.f. warehouse with a 3,500 s.f. office on Saunders Lane. They plan to hire 12 employees. It will be served by a grinder pump. They have proposed to tie a few other lots into the low pressure system.



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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.

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.

702 Old Westtown Road-#240-02/03/16 Balance: \$252.75

Last Activity-September 2015

This is for the redevelopment of a contractor's business located on Old Westtown Road. There were no major issues with the sanitary sewer tie-in.



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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.

Goshen Leisure-Driving Range-#243 04/06/16: Balance \$0.00

Last Activity April 2016

Plans were received from Goshen Leisure for two office buildings on the driving range property across and upstream of the STP. An escrow account will need to be established for this proposed development. Glace are still waiting for the escrow account to be established prior to reviewing the plans.

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.

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.



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WG Chester County Hospital Expansion - #247 701 E. Marshall Street: Balance: \$0.00

Last Activity August 2016

This land development plan includes expansion of the existing hospital facility. The Land Development Plans dated August 2, 2016 were reviewed and comments provided to the Township and the Developer on August 24, 2016.

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

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

Josh Fox's request for motions (see above for details)

Shaun Walsh motioned to approve Change Order No. 1 for Contract 16-1 for an increase to the Contract Price of \$6,875.00, seconded by Ted Murphy. Approved 5-0

Dan Tierney motioned to approve Application for Payment No. 2 in the amount of \$128,360.84 and Payment No.3 in the amount of \$63,737.75 as submitted by M2 Construction, LLC for the Structural Repairs to Primary Clarifier No.3, seconded by Shaun Walsh. Approved 5-0

Ted Murphy motioned to approve Application for Payment No. 1, as submitted by National Water Main Cleaning Company, for Contract 16-1 in an amount of \$117,008.10, seconded by Shaun Walsh. Approved 5-0

Ted Murphy motioned to approve the proposal from Advantage Engineering for professional geotechnical services associated with completion of a Geotechnical Report and ground water monitoring well for PS No. 10 in the amount of \$6,550.00, seconded by Phil Corvo. Approved 5-0

Dan Tierney motioned to approve the construction of two new tanks for the Anaerobic Digester Rehabilitation, seconded by Tina Smith. Approved 5-0

Ted Murphy motioned to approve HRG to begin the design for the two new Anaerobic Digester tanks and to prepare for bidding, seconded by Dan Tierney. Approved 5-0

Ted Murphy motioned to have HRG with the assistance of Carroll Engineering, do the appropriate reviews for the Jerrehian Estate pump station and sewer main size issue, seconded by Phil Corvo. Approved 5-0

Shaun Walsh motioned for HRG to begin getting costs for bypass pump connections for the WGSA ten pump stations, seconded by Phil Corvo. Approved 5-0

WEST GOSHEN SEWER AUTHORITY NOVEMBER 2, 2016

WGSA TAPPING FEE FUND REQUISITIONS

REQUISITION NO.	PAYEE	INVOICE NUMBER	PURPOSE	AMOUNT		CK NO.
1739	Hangley, Aronchick, Segal, Pudlin	1 1	Const Const TAAD! Annual	do=4.00	¢054.00	4550
1/39	& Schiller	40076442	Goose Creek TMDL Appeal	\$954.00	\$954.00	1553
1720	M2 Construction III C	10014.3	Payment #2 Primary Clarifier No. 3	6120.200.04		
1738	M2 Construction, LLC	16014-2	· · · · · · · · · · · · · · · · · · ·	\$128,360.84		
		16014-3	Payment #3 Primary Clarifier No. 3	\$63,737.75	\$192,098.59	1554
1736	Herbert, Rowland & Grubic, Inc.	114794	Headworks Improvement Project	\$39,362.00		
		114795	WWTP Emergency Generator	\$1,467.26		
		114796	Primary Clarifier No. 3 Review	\$6,404.96		
		114797	2016 Sanitary Sewer Sys Repairs	\$4,073.37		
		114800	Co-Mag Bench Scale Study	\$548.00		
		114801	WWTP Entrance Improvements	\$2,923.72	\$54,779.31	1555
1737	Unruh Turner Burke & Frees	140352	TMDL Appeal to EHB	\$440.00		
		140356	Capital Projects-Generator	\$740.00		
		140357	Capital Projects-General	\$640.00		
		140358	Capital Projects-Anaerobic Digester	\$100.00	\$1,920.00	1556

DEVELOPER'S INVOICES

DEVELOPER	ENTITY	INVOICE NUMBER	PURPOSE	AMOUNT		
Woodlands at						
Greystone	Herbert, Rowland & Grubic, Inc.	114799	Engineering	\$85.00		1557
Arbours at West						
Goshen Phase 2	Unruh Turner Burke & Frees	140353	Legal	\$40.00		
Zarelli Subdivision -						
825 Goshen Road		140354	Legal	\$120.00	9	
Reserve at West			<u> </u>			
Goshen		140355	Legal	\$322.00	\$482.00	1558

GENERAL INVOICES

ADMINISTRATION	ENTITY	INVOICE NUMBER	PURPOSE	AMOUNT	
	Herbert, Rowland & Grubic, Inc.	114798	General Engineering (Retainer)	\$1,666.98	1559
	Unruh Turner Burke & Frees	140350	General Legal	\$3,460.00	1560
	West Goshen Twp	10-2016	Oct 2016 Admin Fee	\$1,250.00	1561
	21st Century Media	1146623	Advert-WGTSA 10/12 mtg	\$84.03	1562
	F. Frederick Breuinger & Son Ins.		additional premium on bond	\$699.11	1563

 Tapping Fee Fund
 \$249,751.90

 Developers
 \$567.00

 General
 \$7,160.12

 Total Amount
 \$257,479.02

12/6/2016

Dan Tierney motioned to approve a Resolution for Minimum amount to be held in Capital Reserves for WGSA in the amount of \$1,500,000.00, seconded by Phil Corvo. Approved 5-0

Shaun Walsh motioned to approve the acquisition of WGSA email, seconded by Phil Corvo. Approved 5-0

There being no further business, on a motion by Dan Tierney seconded by Ted Murphy, the meeting was adjourned at 10:30 PM.

Respectfully submitted,

Lisa Covatta, Recording Secretary