

**ALTOONA WATER AUTHORITY**  
**Board of Directors**  
**Meeting Agenda**  
**August 20, 2020**

- I.** Call to Order – Mr. Neugebauer
- II.** Pledge of Allegiance
- III.** Roll Call – Kathy Gabella
- IV.** Public Comment/Guests
- V.** Approval of the Minutes from July 23, 2020 Board Meeting
- VI.** Unfinished Business
  - 1. Rubber Dams Update - Lake Altoona and Impounding Dam– Mike Sinisi
  - 2. Goods Lane Water Main Replacement Project – Mark Perry
  - 3. Bellwood Dam/Bellwood WTP Update – Mark Glenn
  - 4. Wastewater Treatment Plant Aeration Blowers – Mark Glenn
  - 5. Sanitary Sewer Rehab Lining Project Update – Mark Glenn
  - 6. Keystone/South Jaggard Pump Stations (Motion) – Mark Glenn
  - 7. West Plant Remediation RFP – Mark Perry/Brian Book
  - 8. Biosolids Treatment Improvement Project Update – Todd Musser/Gina DeRubeis
- VII.** Requisition Approval/Financial Report - Gina DeRubeis
- VIII.** New Business
  - 1. Sugar Run Road PennDOT Bridge Construction Easement – Mike Sinisi
  - 2. Water/Wastewater Rates, Rules & Regulations (COMPAQ Meters) – Ron Becher
- IX.** Resolutions/Bid Awards/Motions – Kathy Gabella
  - 1. Resolution 20-08-947 to authorize Mark A. Perry, General Manager to execute the Sugar Run Road PennDOT Bridge Construction Easement
  - 2. Resolution 20-08-948 to amend the Water Rates, Rules & Regulations
  - 3. Resolution 20-08-949 to amend the Wastewater Rates, Rules & Regulations
  - 4. Resolution 20-08-950 Reimbursement Resolution for Biosolids Treatment Improvement Project

5. Resolution 20-08-951 execute the Contractual Agreement between ESG and the AWA contingent upon the receipt of the "Letter of No Prejudice" from PennVest and the approval of the Solicitor

**X.** Other Business

1. General Liability with Recovery – Mark Perry

**XI.** Media Questions

**XII.** Executive Session – Legal/Personnel Issues

**XIII.** Adjournment

ALTOONA WATER AUTHORITY  
CONSTRUCTION REQUISITIONS  
AUGUST 20, 2020

	<u>CONTRACT</u> <u>AMOUNT</u>	<u>AMOUNT</u> <u>PREVIOUSLY</u> <u>PAID</u>	<u>AMOUNT PD</u> <u>THIS</u> <u>REQUISITION</u>	<u>PRESENT</u> <u>TOTAL</u> <u>OBLIGATION</u>	<u>REMAINING</u> <u>BALANCE</u> <u>AMOUNT</u>
<b>WATER DIVISION CONSTRUCTION FUND (PENVEST LOAN - GOODS LANE)</b>					
#5	220,000.00	93,156.41	3,380.24	96,536.65	123,463.35
	32,500.00	23,688.58		23,688.58	8,811.42
#6	1,495,340.00	284,891.40	342,002.70	626,894.10	868,445.90
	1,747,840.00	401,736.39	345,382.94	747,119.33	1,000,720.67
<b>SEWER DIVISION CONSTRUCTION FUND (PENVEST LOAN)</b>					
#45	5,044,112.00	1,651,972.86	226,969.45	1,878,942.31	3,165,169.69
	5,337,454.50	4,240,079.07		4,240,079.07	1,097,375.43
#46	750,000.00	505,753.97	10,261.93	516,015.90	233,984.10
	11,131,566.50	6,397,805.90	237,231.38	6,635,037.28	4,496,529.22
<b>SEWER DIVISION CAPITAL FUND (FORMER DEBT SERVICE RESERVE FUNDS)</b>					
<i>Pleasant Valley S. Jaggard Street Pump Station</i>					
84450	75,000.00	66,154.02	2,641.50	68,795.52	6,204.48
	500.00	500.00	-	500.00	-
	700.00	700.00	-	700.00	-
	76,200.00	67,354.02	2,641.50	69,995.52	6,204.48
<i>Keystone Pump Station</i>					
84449	60,000.00	47,441.54	5,079.42	52,520.96	7,479.04
	324,000.00	-	-	-	324,000.00
	500.00	500.00		500.00	
	384,500.00	47,941.54	5,079.42	53,020.96	331,479.04
<i>Westerly WWTF - Pump Station Improvements</i>					
84452	-	-	2,185.60	2,185.60	(2,185.60)
	-	-	2,185.60	2,185.60	(2,185.60)
	460,700.00	115,295.56	9,906.52	125,202.08	335,497.92

**Altoona Water Authority  
Water Production and Usage**

		2019 - 2020												
		AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AVG
<b>A. Average Daily Water Production (MGD)</b>														
1. Bellwood (MGD)		1.427	1.956	1.842	1.787	1.824	1.666	1.650	0.976	1.446	1.139	1.917	1.439	1.589
2. Homer's Gap (MGD)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3. Horseshoe Curve (MGD)		3.921	2.964	3.522	4.249	4.085	3.995	3.784	3.760	3.423	3.940	3.804	4.076	3.794
4. Kettle (MGD)		0.000	0.000	0.000	0.000	0.000	0.000	0.104	0.101	0.018	0.113	0.133	0.133	0.050
5. Mill Run (MGD)		0.356	0.665	0.716	0.555	0.227	0.375	0.401	0.797	0.415	0.381	0.352	0.664	0.492
6. Plane Nine (MGD)		1.039	1.271	1.119	1.067	1.229	1.332	1.336	1.247	1.190	1.280	1.314	1.312	1.228
7. Tipton (MGD)		1.440	1.471	0.802	0.182	0.923	1.262	1.221	1.067	1.160	1.308	0.926	0.902	1.055
<b>Total Daily Production (MGD):</b>		<b>8.184</b>	<b>8.327</b>	<b>8.001</b>	<b>7.840</b>	<b>8.289</b>	<b>8.631</b>	<b>8.497</b>	<b>7.948</b>	<b>7.652</b>	<b>8.162</b>	<b>8.446</b>	<b>8.525</b>	<b>8.209</b>
<b>B. Average Daily Metered Usage (MGD)</b>														
1. Billed Residential and Public (MGD)		2.226	2.298	2.136	2.212	2.092	2.148	2.273	2.023	2.216	2.176	2.443	2.433	2.223
2. Billed Commercial and Industrial (MGP)		1.778	1.803	1.683	1.655	1.490	1.473	1.679	1.501	1.439	1.216	1.456	1.580	1.563
3. Billed Municipalities (MGD)		0.517	0.203	0.190	0.235	0.152	0.221	0.214	0.188	0.211	0.199	0.273	0.192	0.233
4. Billed Bulk Purchases (MGD)		0.001	0.001	0.000	0.000	0.001	0.000	0.001	0.009	0.000	0.014	0.010	0.002	0.003
5. Billed Private Lines (MGD)		0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
6. Billed Hollidaysburg Borough Usage (MGD)		0.633	0.657	0.684	0.674	0.733	0.723	0.737	0.579	0.529	0.566	0.606	0.620	0.645
7. Billed Bellwood Borough Usage (MGD)		0.250	0.266	0.229	0.255	0.261	0.246	0.237	0.243	0.223	0.257	0.243	0.275	0.249
8. Metered Hydrants (MGD)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9. Unbilled Usage (MGD)		0.366	0.326	0.348	0.353	0.359	0.355	0.350	0.365	0.357	0.342	0.344	0.353	0.352
<b>Total Daily Metered Usage (MGD):</b>		<b>5.772</b>	<b>5.554</b>	<b>5.272</b>	<b>5.383</b>	<b>5.089</b>	<b>5.165</b>	<b>5.490</b>	<b>4.908</b>	<b>4.975</b>	<b>4.769</b>	<b>5.375</b>	<b>5.457</b>	<b>5.267</b>
<b>C. Average Estimated Unbilled Usage (MGD)</b>														
1. System Flushing/Water Quality (MGD)		0.027	0.025	0.023	0.022	0.016	0.028	0.019	0.019	0.016	0.969	0.543	0.022	0.144
2. Fire Fighting/Flows (MGD)		0.024	0.014	0.008	0.006	0.007	0.016	0.018	0.006	0.006	0.008	0.017	0.011	0.012
3. 3% Meter Inaccuracy (MGD)		0.173	0.167	0.158	0.162	0.153	0.155	0.165	0.147	0.149	0.143	0.161	0.164	0.158
<b>Total Daily Estimated Unbilled Usage (MGD):</b>		<b>0.224</b>	<b>0.205</b>	<b>0.189</b>	<b>0.189</b>	<b>0.176</b>	<b>0.199</b>	<b>0.202</b>	<b>0.172</b>	<b>0.171</b>	<b>1.120</b>	<b>0.722</b>	<b>0.197</b>	<b>0.314</b>
<b>D. Average Daily Lost Water (MGD)</b>		<b>2.188</b>	<b>2.569</b>	<b>2.541</b>	<b>2.267</b>	<b>3.024</b>	<b>3.268</b>	<b>2.805</b>	<b>2.869</b>	<b>2.507</b>	<b>2.272</b>	<b>2.348</b>	<b>2.872</b>	<b>2.628</b>
<b>E. Average Estimated Documented Leaks (MGD)</b>														
1. Documented Altoona Water Authority Leaks (MGD)		0.119	0.376	0.632	1.175	1.363	1.280	2.318	0.284	0.113	0.901	0.759	0.184	0.792
2. Documented Customer Leaks (MGD)		0.112	0.084	0.094	0.098	0.109	0.126	0.159	0.172	0.149	0.136	0.157	0.118	0.126
<b>Total Daily Estimated Documented Leaks (MGD):</b>		<b>0.231</b>	<b>0.460</b>	<b>0.725</b>	<b>1.272</b>	<b>1.472</b>	<b>1.406</b>	<b>2.477</b>	<b>0.457</b>	<b>0.261</b>	<b>1.036</b>	<b>0.916</b>	<b>0.302</b>	<b>0.918</b>
<b>F. Summary (Percentages)</b>														
1. Metered Usage (%)		70.522	66.691	65.887	68.664	61.400	59.836	64.613	61.745	65.008	58.430	63.648	64.004	64.168
2. Unbilled Usage (%)		2.739	2.463	2.358	2.415	2.118	2.303	2.376	2.162	2.232	13.727	8.548	2.309	3.822
3. Average Daily Lost Water (%)		26.739	30.846	31.755	28.921	36.482	37.861	33.012	36.094	32.760	27.843	27.804	33.688	32.010
4. Documented Leaks (%)		2.823	5.529	9.064	16.225	17.765	16.293	29.147	5.744	3.416	12.699	10.842	3.546	11.184
5. Un-Accounted for Water (%)		23.916	25.316	22.692	12.697	18.717	21.567	3.865	30.350	29.344	15.144	16.962	30.142	20.826

Last format revision: 5/13/2014 (added "Metered Hydrants" category)

**ALTOONA WATER AUTHORITY  
RESOLUTION # 20-08-947**

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of the Altoona Water Authority, Altoona, Pennsylvania, that it authorizes Mark A. Perry, General Manager to execute the Sugar Run Road PennDOT Bridge Construction Easement

THIS Resolution adopted on this 20<sup>th</sup> day of August 2020.

ATTEST:

\_\_\_\_\_  
Secretary/Asst. Secretary

\_\_\_\_\_  
Chairman/Vice-Chairman

SEAL

**ALTOONA WATER AUTHORITY  
RESOLUTION #20-08-948**

**WHEREAS**, a secondary meter to measure low flow that has been designated and billed as domestic water service is no longer part of the "COMPAQ" meter design and;

**WHEREAS**, for billing purposes, to accommodate this design change, a separate rate table has been added to provide for a base charge consistent with the low flow meter that no longer exists and;

**BE IT RESOLVED** by the Board of Directors of the Altoona Water Authority, Altoona, Pennsylvania, to amend the Water Rates, Rules & Regulations to include the addition of the modified base charge to be effective August 1, 2020

This resolution adopted on this 20<sup>th</sup> day of August, 2020.

**ATTEST:**

\_\_\_\_\_  
Frank C. Ake, Secretary

\_\_\_\_\_  
Chairman/Vice-Chairman

**SEAL**

## ALTOONA WATER AUTHORITY

### Monthly Water Base Charge (Existing COMPAQ meters) Effective August 1, 2020

<u>Meter Size</u>	<u>Base Charge Per Month</u>
5/8"	
3/4"	
1"	
1 1/2"	
2"	
3"	
4"	101.46
6"	255.85
8"	255.85
10"	

**ALTOONA WATER AUTHORITY  
RESOLUTION #20-08-949**

**WHEREAS**, a secondary meter to measure low flow that has been designated and billed as domestic sewer service is no longer part of the "COMPAQ" meter design and;

**WHEREAS**, for billing purposes, to accommodate this design change, a separate rate table has been added to provide for a base charge consistent with the low flow meter that no longer exists and;

**BE IT RESOLVED** by the Board of Directors of the Altoona Water Authority, Altoona, Pennsylvania, to amend the Wastewater Rates, Rules & Regulations to include the addition of the modified base charge to be effective August 1, 2020

This resolution adopted on this 20<sup>th</sup> day of August, 2020.

**ATTEST:**

\_\_\_\_\_  
Frank C. Ake, Secretary

\_\_\_\_\_  
Chairman/Vice-Chairman

**SEAL**



## ALTOONA WATER AUTHORITY

### Monthly Sewer Base Charge (Existing COMPAQ Meters) Effective August 1, 2020

<u>Meter Size</u>	<u>Base Charge Per Month</u>
5/8"	
3/4"	
1"	
1 1/2"	
2"	
3"	
4"	70.20
6"	184.11
8"	184.11
10"	

**ALTOONA WATER AUTHORITY  
RESOLUTION #20-08-950**

**PROJECT # 07021051910-CS**

**BE IT RESOLVED** by the Board of Directors of the Altoona Water Authority, Altoona, Pennsylvania, that the Altoona Water Authority intends to use its General Funds, to finance on an interim basis, the costs of the Biosolids Treatment Improvements Project which costs are reasonably expected to be reimbursed with the proceeds of debt to be incurred by the Borrower, up to the maximum principal amount of \$36,615,700.00. This resolution is a declaration of official intent adopted pursuant to the requirements of Treasury Regulation Section 1.150.2.

This resolution adopted on this 20<sup>th</sup> day of August, 2020.

**ATTEST:**

\_\_\_\_\_  
Frank C. Ake, Secretary

\_\_\_\_\_  
Chairman/Vice-Chairman

**SEAL**

**ALTOONA WATER AUTHORITY  
RESOLUTION #20-08-951**

**IT RESOLVED** by the Board of Directors of the Altoona Water Authority, Altoona, Pennsylvania, to authorize the Chairman or Vice-Chairman and Secretary or Assistant Secretary to execute the contractual documents between the Altoona Water Authority and Energy Systems Group contingent upon the receipt of the "Letter of No Prejudice" from PennVest and the approval of the Solicitor.

This resolution adopted on this 20<sup>th</sup> day of August, 2020.

**ATTEST:**

\_\_\_\_\_  
Frank C. Ake, Secretary

\_\_\_\_\_  
Chairman/Vice-Chairman

**SEAL**

**ALTOONA WATER AUTHORITY  
PROJECT PROGRESS REPORT  
AUGUST 20, 2020**

**WATER TREATMENT PLANTS - OZONE SYSTEM UPGRADES**

PennVest application submitted August 5 for October 21, 2020 PennVest Board Meeting. Working with manufacturer on finalizing equipment selection, design and scope. Finalizing drawings and specifications for installation and bid.

**KEYSTONE (EAST JUNIATA) PUMP STATION IMPROVEMENTS**

Contractor plans to start work September 1<sup>st</sup> or no later than September 14<sup>th</sup>

**SOUTH JAGGARD STREET PUMP AND FORCE MAIN**

Received PennDOT highway permit. Awaiting GP permit. AWA staff working with property owner on right of way. Pump will be purchased by AWA thru Costars. Delivery is 15-17 weeks.

**WASTEWATER TREATMENT PLANT AERATION BLOWERS (ATLAS-COPCO) REPLACEMENT**

Contractor completed installation and startup of remaining aeration blowers at Easterly WWTF. The next work phase is the Westerly WWTF digester blowers and work will begin August 17.

**SEWER REHABILITATION PROJECT**

**Contract No. 197 (Cured-in-Place Lining Work)** - IPR has completed 40,000 LF of pipe sliplining work to date. About 3,300 LF of lining work and 370 VF of manhole rehab remains, along with spot repair and defect resolution work. Contractor currently not on-site, but have indicated returning in the next two weeks. Work is 85% complete.

**Contract No. 196 (Spray-on Lining Work)** - Spinello continues Guniting and anticipates completion of the District 2 Sewer by the end of August. Debris removal on the 4<sup>th</sup> District sewer continuing to be an issue. Progress meeting for both Contracts were held on July 28<sup>th</sup> and August 12<sup>th</sup>. Contractor submitted Pay Application No. 10 in the amount of \$226,969.45 for approval. Work is 42% complete.

**WESTERLY WWTF PROCESS PUMP BUILDING UPGRADES**

Design, plans and specifications of pump station upgrades continues. Project will include replacement of pumps, piping, electrical upgrades, air compressors, building improvements including roof and painting.

**BELLWOOD WATER TREATMENT PLANT UPGRADE**

Received DEP Public Water Supply Permit (plant) & DEP NPDES Permit (discharge of filter-to-waste water).

**BELLWOOD DAM MODIFICATIONS**

Awaiting DEP Dam Safety Permit.

**GOODS LANE 12-IN. WATER MAIN REPLACEMENT**

Contractor has installed 4,000 LF of 12-in. main and 150 LF of 8-inch main (85%). Payment Appl. No. 2 was submitted in the amount of \$342,002.70 for approval. A construction conference was held on August 11.

**HORSESHOE CURVE CONTROL SYSTEM UPGRADES**

Control systems modifications scheduled for week of August 17<sup>th</sup> for the Horseshoe Curve treatment plant shut-down alarms. Work is ongoing. Installations at other plants completed and working well according to operation personnel.

**ALTOONA WATER AUTHORITY  
PROJECT PROGRESS REPORT  
AUGUST 20, 2020**



**Mesh prior to Gunite lining**



**Finished Gunite Lining**



**4<sup>th</sup> District Brick Sewer Invert Repair**



**Manhole Rehab Lining**



**Easterly WWTF  
Reaeration Blower**



**2<sup>nd</sup> District Brick Sewer Repair**



**Easterly WWTF Aeration Blowers**