

**MINUTES**  
**UNIVERSITY AREA JOINT AUTHORITY**  
**1576 SPRING VALLEY ROAD**  
**STATE COLLEGE, PA 16801**

**Regular Meeting – July 21, 2021**

**1. Call to Order**

Mr. Lapinski, Chair, called the meeting to order at 4:02 p.m., Wednesday, July 21, 2021. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messrs. Ebaugh, Guss; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent; Michele Aukerman, Rettew; David Gaines, Solicitor; C-NET; Ben Burns, HRG Consulting Engineer; and Jeff Garrigan, HRG Consulting Engineer. Those in attendance via Zoom were: Messrs. Daubert, Derr, Miller; Kevin Mullen; Felisa Higgins; and Ben Chicka.

**2. Reading of the Minutes**

UAJA Regular Meeting – June 16, 2021

**UAJA Meeting  
Minutes Approved**

A motion was made by Mr. Guss, second by Mr. Dempsey, to approve the minutes of the UAJA meeting held on June 16, 2021, with an amendment to add Tom Daubert as attending the meeting via Zoom. The motion passed unanimously.

**3. Public Comment**

**3.1 Other items not on the agenda**

Mr. Mullen spoke to the board about being overbilled for a second EDU over the past five or six years in the amount of \$2,000 plus interest.

**4. Old Business**

**4.1 Change Order 01 High Voltage Switchgear Replacement Project**

This change order is for several work change directives that were issued during the installation of the new conduits. As is often the case, not all of the old work was shown on the prior as built drawings, and some of the old work was shown incorrectly on the as built drawings. The biggest impact was from the location of the West Penn conduits, which precluded access to several conduits which were to be intercepted. New conduit had to be installed parallel to the existing conduit bank.

It was also determined that the existing conduit for communication cables between the existing switchgear and the generator building could not contain the additional communication cable required. A new conduit was added for the additional communication cable.

This should conclude the major unforeseen conditions on this project.

**Recommendation:** Approve change order 01 for the High Voltage Switchgear Replacement Project in the amount of \$77,797.21

**Change Order 01 High  
Voltage Switchgear  
Replacement Project  
Approved**

A motion was made by Mr. Dempsey, second by Mr. Ebaugh to approve change order 01 for the High Voltage Switchgear Replacement Project in the amount of \$77,797.21. The motion passed unanimously.

#### 4.2 Change Order 01 Aeration Line Improvements

This change order is to extend the receptacle circuit at the primary clarifier to accommodate a sampler, and to relocate the mixer Variable Frequency Drive in the secondary clarifier pump station. The new VFD is too large to fit in the existing location and allow space for access.

**Recommendation:** Approve change order 01 for the Aeration Line Improvements Project in the amount of \$4,797.06.

**Change Order 01  
Aeration Line  
Improvements  
Project Approved**

A motion was made by Mr. Dempsey, second by Mr. Derr to approve change order 01 for the Aeration Line Improvements Project in the amount of \$4,797.06. The motion passed unanimously.

#### 5. New Business

##### 5.1 Trout Road Farmhouse Bids

Topic was deferred into an executive session discussion.

##### 5.2 Tapping Fee and Rate Study Report

The Tapping Fee Study was last updated in 2015, so it is due for an update. UAJA has accomplished several projects since the last report, and has added capacity, which affects the calculation.

The agreement between UAJA and State College Borough expired in September 2020. UAJA has continued billing the Borough according to the terms of the old agreement. Now that the COVID-19 crisis is winding down, the Borough should have time to negotiate a new agreement. To prepare for the negotiations, it would be helpful to know what it actually costs UAJA to provide service to the Borough so that during negotiations we can ensure that the UAJA direct customers are not subsidizing the Borough sewer system customers, or vice-versa.

Recently Pennsylvania passed a rather ambiguously worded change to the Pennsylvania Municipalities Authorities Act. A second purpose of the rate study is to document UAJA's rate calculations to make it clear that our rates are not affected by the legislation.

HRG has provided an estimate of the cost to prepare the two studies. The update of the tapping fee study is expected to be \$5,300, and the cost of the rate study is expected to be \$10,900. After the reports are finalized, there may be additional cost associated with attending meetings with the Borough and addressing comments from the Borough and others.

**Recommendation:** Authorize HRG to prepare the update of the tapping Fee study and the rate study for estimated costs of \$5,300 and \$10,900 respectively.

**Change Order 01  
Aeration Line  
Improvements  
Project Approved**

A motion was made by Mr. Derr, second by Mr. Guss to authorize HRG to prepare the update of the tapping fee study and the rate study for estimated costs of \$5,300 and \$10,900 respectively. The motion passed unanimously.

**\*The meeting agenda for New Business was adjusted to add 5.3 PennDOT Reimbursement Agreement, then moving Requisitions to 5.4 at the chairman's discretion.**

### 5.3 PennDOT Reimbursement Agreement

PennDOT will be doing a bridge project out on West College Avenue near Scott Road. There will be no cost to UAJA other than we are going to supply them with the temporary manhole adjustments in which we will get them back when the project is over.

**PennDOT  
Reimbursement  
Agreement  
Resolution  
Approved**

A motion was made by Mr. Ebaugh, second by Mr. Dempsey to approve the resolution for the PennDOT reimbursement agreement. The motion passed unanimously.

### 5.4 Requisitions

BRIF #571	HRG Whitehall Road Project	\$4,180.00
BRIF #572	HRG Fiber Optic Conduits	\$13,225.50
BRIF #573	HRG Scott Road Pump Station Project	\$9,259.62
BRIF #574	HRG Harris Twp. Reuse Extension	\$4,197.50
BRIF #575	Cooper Electric Conduit Project	\$1,511.24
BRIF #576	Mayer Electric Shiloh Pump Station Project	\$117.81
BRIF #577	First Citizens Bank Truck Loan Payment	\$22,668.30
BRIF #578	First Citizens Bank Truck Loan Payment	\$17,272.26
BRIF #579	Thoroughbred Construction Pay App. No. 2- Switchgear Project	\$174,730.50
<b>TOTAL BRIF</b>		<b>\$247,162.73</b>

**BRIF  
Approved**

A motion was made by Mr. Ebaugh, second by Mr. Guss to approve BRIF #571, #572, #573, #574, #575, #576, #577, #578 and #579 in the amount of \$247,162.73. The motion passed unanimously.

Construction Fund #010	HRI Pay App. No. 4- Aeration Line Project	\$3,852.00
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**TOTAL 2020 A CONSTRUCTION FUND** **\$3,852.00**

<b>Construction Fund Approved</b>
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A motion was made by Mr. Guss, second by Mr. Dempsey to approve Construction Fund #010 in the amount of \$3,852.00. The motion passed unanimously.

Revenue Fund #179	Debt Service, Operation and Maintenance Expenses	\$1,000,000
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**TOTAL REVENUE FUND** **\$1,000,000**

<b>Revenue Fund Approved</b>
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A motion was made by Mr. Daubert, second by Mr. Derr to approve Revenue Fund #179 in the amount of \$1,000,000. The motion passed unanimously.

**6. Reports of Officers**

**6.1 SCBWA Liaison**

None.

**6.2 Financial Report**

The different cost centers of the YTD budget report for the period ending June 30, 2021, were reviewed with the Board by Jason Brown.

**6.3 Chairman’s Report**

None.

**6.4 Plant Superintendent’s Report**

**Compost & Septage Operations Report**

The following comments are as presented to the Board in the written report prepared by Art Brant, Plant Superintendent.

**COMPOST PRODUCTION AND DISTRIBUTION**

	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>	<u>Apr. 2021</u>	<u>May 2021</u>	<u>June 2021</u>
<b>Production</b>	716 cu/yds.	673 cu/yds.	897 cu/yds.	848 cu/yds.	847 cu/yds.	878 cu/yds.
<b>YTD. Production</b>	716 cu/yds.	1,389 cu/yds.	2,286cu/yds.	3,134 cu/yds.	3,981cu/yds.	4,859 cu/yds.
<b>Distribution</b>	120cu/yds.	11 cu/yds.	978 cu/yds.	963cu/yds.	2,132cu/yds.	1,442cu/yds.
<b>YTD. Distribution</b>	120 cu/yds.	131 cu/yds.	1,109 cu/yds.	2,072cu/yds.	4,204cu/yds.	5,646 cu/yds.
<b>Immediate Sale</b>	2,412 cu/yds.	3,117 cu/yds.	2,812 cu/yds.	2,746 cu/yds.	1,462cu/yds.	867cu/yds.
<b>Currently in Storage</b>	3,128 cu/yds.	3,790 cu/yds.	3,709 cu/yds.	3,594 cu/yds.	2,309 cu/yds.	1,745 cu/yds.

SEPTAGE OPERATIONS

	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>	<u>Apr. 2021</u>	<u>May 2021</u>	<u>June 2021</u>
<b>Res./Comm.</b>	55,000 gals.	57,530 gals.	71,300 gals.	74,400 gals.	69,800 gals.	68,700 gals.
<b>CH/Potter</b>	5,421.00 lbs/solids	3,923.97 lbs/solids	2,777.22 lbs/solids	0.00 lbs/solids	0.00 lbs/solids	1,517.88 lbs/solids
<b>Port Matilda</b>	834.00 lbs/solids	1,434.48 lbs/solids	1,684.68 lbs/solids	500.40 lbs/solids	1,434.48 lbs/solids	1,200.96 lbs/solids
<b>Huston Twp.</b>	717.24 lbs/solids	617.16 lbs/solids	533.76 lbs/solids	600.48 lbs/solids	683.88 lbs/solids	500.40 lbs/solids
<b>Total Flow</b>	116,000 gals.	114,030gals.	113,800 gals.	88,400 gals.	95,800 gals.	105,500 gals.

**Plant Operation**

The treatment plant is operating well with no exceptions. The 12-month rolling average flow for June was 3.19mgd with the average for the month being 3.04mgd. The average monthly **influent** flow was 4.84mgd.

Treatment units online are as follows: primary clarifiers #1, #5 and #6; aeration basins #1 and #3; secondary; clarifiers #1, #2, and #3; all eight tertiary filters are online.

Below is the chart for Reuse Distribution and Temperature Data:

	<b>June-21</b>	<b>YTD</b>	<b>Plant Effl. Temp</b>	<b>Wetland Effl. Temp.</b>
<b>Best Western</b>	<b>34,000</b>	<b>142,000</b>		
<b>Centre Hills</b>	<b>5,037,000</b>	<b>10,912,000</b>	<b>June-21</b>	<b>June-21</b>
<b>Cintas</b>	<b>517,000</b>	<b>1,861,000</b>	<b>66.5</b>	<b>67.5</b>
<b>Red Line</b>	<b>479,000</b>	<b>3,298,000</b>		
<b>UAJA Wetland</b>	<b>5,537,000</b>	<b>25,185,000</b>		
<b>GDK Vault</b>	<b>38,340,000</b>	<b>150,400,000</b>		
<b>Kissingers</b>	<b>873,000</b>	<b>873,000</b>		
<b>Stewarts/M.C.</b>	<b>1,891,000</b>	<b>11,734,000</b>		
<b>TOTAL</b>	<b>4,000</b>	<b>10,000</b>		

**Plant Maintenance**

- Rebuilt Primary scum trough drives on #5 and #6 tanks.
- Replaced Landia mixer AM510 in Aeration Train #3.
- Replaced fiber box cover in road in front of Generator Bldg.
- Patched roof on Control Bldg.
- Replaced tines on Composters #2 and #3.
- Replaced hydraulic line on Composter #1.
- Changed belts on MAU1301 and 1304.
- Replaced #120 chain on Knight Mixer.
- Changed belts on Odor Control Blower #3.
- Replaced UPS on Control Panel in D/W office.
- Replaced both cooling motors on Ozone Chiller System.
- Installed new CL-17 at the Booster Station.

**6.5 Collection System Superintendent’s Report**

The following comments are as presented to the Board in the written report prepared by Mark Harter, Collection System Superintendent.

**Mainline Maintenance:**

- Shiloh Pump Station Project – Installed (2) manholes and 50 ft of mainline, removed old station, completed restoration. Project completed.
- Conduit Project – 324 ft of conduit, 1,620 ft of interduct, and 2 pull boxes were installed. Project completed.
- Mainline repair – 122 Boalsburg Rd.
- Main Line Televising – 2,664.6 ft televised - 18 manholes inspected.
- Mainline Cleaning – 6,670 ft cleaned – 63 manholes inspected.
- Casting repairs – (31)
- Brushed mainline R.O.W

**Lift Station Maintenance:**

- Replaced control board and current transformer on generator at Big Hollow station.
- Repaired (1) E-One pump core.
- Cleaned (14) lift station wet wells.

**Next Month Projects:**

- (2) Mainline repairs in Pine Grove Mills.
- Casting adjustments for Township paving projects.
- Cleaning wet wells.
- Start the Scott Road upgrade project.
- Mainline flushing.

**Inspection:** Final As-Builts Approved:

- a. Harner Farms
- b. Grays Pointe phase 6 sec D.1

Mainline Construction:

- a. Canterbury Crossing 4&5 phase 1C – Awaiting As-Builts.
- b. Hawk Ridge – Construction is approximately (80%) complete.

New Connections:

- |                              |   |                    |   |
|------------------------------|---|--------------------|---|
| a. Single-Family Residential | 8 | c. Commercial      | 1 |
| b. Multi-Family Residential  | 0 | d. Non-Residential | 0 |

**TOTAL            9**

PA One-Calls Responded to 06/1-30/21: 365

**6.6 Engineer’s Report**

The following comments are as presented to the Board in the written report prepared by the Consulting Engineer.

**Consulting Engineer Services (R001178.0693)**

- The American Rescue Plan Act (ARPA) of 2021 provides \$350 billion to help states, counties, cities, and tribal governments cover increased expenditures, replenish lost revenue, and to mitigate

economic harm from the COVID-19 pandemic. The act specifically identifies that an eligible use of the funds is to make investments in sewer infrastructure. There may be an opportunity for the Authority to request funding from local Municipalities or the County.

- The data logging capabilities of the flow meters at each State College Borough meter station were identified.

#### **Odor Control System Upgrades (R001178.0597)**

- Contract No. 17-03: General Construction (Global Heavy Corporation) – Complaint against the UAJA and HRG.
- An inventory of air emissions for the entire facility is being compiled as required by DEP to transition from an air quality plan approval to an operating permit. Manufacturer's emissions data is being researched for contaminant sources.

#### **Extension of Beneficial Reuse Water to Harris Township (R001178.0637)**

- Contract 2020-02 (Ligonier) – The Contractor completed the final punch list item (restoration) and will be submitting a final application for payment (\$3,000.00).

#### **Meeks Lane Pump Station – Act 537 Plan Special Study (R001178.0663)**

- Revisions are required to the draft study to account for additional and alternative infrastructure alignments.
- The proposed gravity alignment from west Patton Township was identified to be potential habitat for the Spade Food Toad. An ecological study will need to be completed.
- The proposed force main alignment along passed Lowe's is within limited access right-of-way, which will require PennDOT central office review.

#### **Beneficial Reuse Service Area Designation – Act 537 Plan Special Study (R001178.0666)**

- Completion of the Special Study has been paused while a Risk Assessment is conducted.

#### **Scott Road Pump Station and Bristol Interceptor (R001178.0682)**

- Submittals were reviewed and approved for the Pumps and Controls.
- The project was advertised for bids. Bids will be received on August 11<sup>th</sup> at 2pm.
- A variance request was submitted to be presented to the Zoning Hearing Board (July 27<sup>th</sup>).
- The NPDES permit was issued; however, an amendment will need to be submitted to account for the alignment change along Bristol Avenue.
- Proposed Easement Exhibits have been prepared and were provided to the Authority's solicitor.

#### **Fiber Optic Conduit – (R001178.0687)**

- Drawings were prepared for the second fiber optic conduit alignment (Trout Road to Hartman Farm Lane to Short Lane, near SR 0026) and delivered to staff for review.
- Upon approval of the alignment, permit applications and easement exhibits will be prepared.

#### **Entry Road Storm Water Improvements – (R001178.0688)**

- The NPDES Permit has been issued.
- A preliminary right-of-way exhibit was provided to the Authority's solicitor to begin discussions with the property owner.
- Relocation of the utility poles is being coordinated with First Energy, which will require evidence of a right-of-way or an acknowledgement signature from the property owner.
- Signage recommendations were provided for an equestrian crossing.

#### **Whitehall Road Low Pressure Sanitary Sewer – (R001178.0692)**

- A Component 3M Sewage Facilities Planning Module was submitted to the Township and the

Centre Region Planning Agency.

- PennDOT Highway Occupancy Permit Application was submitted.

**Princeton Drive Sanitary Sewer Replacement – (R001178.0699)**

- Authority staff met with Ferguson Township and resolved that the sewer line could be relocated to the edge of the stream bed. A preliminary alignment was prepared and submitted to the Township for concurrence.
- Replacement of the sewer will require separate permitting. A GP-5 permit application is being developed.
- An engineering services agreement was prepared.

**Developer Plan Reviews**

- The Developer’s as-built drawings for the sanitary system for Grays Pointe, Phase 6D.1 were recommended for approval to Staff; July 12, 2021 (1178.0701).
- The Developer’s as-built drawings for the sanitary system for Harner Farms Subdivision (incl Orchard View and Sheetz) were recommended for approval to Staff; June 25, 2021 (1178.0702).
- Proposed changes to the design and as-built drawing submission checklist were submitted to the Collection System Superintendent for consideration.

**6.7 Construction Report**

**ENR/AWT Upgrade Project (094612009)**

- We continue to work with the Contractor (HRI, Inc.) to resolve the remaining defective work. The Authority is currently retaining \$83,500.94 for these items.

**Aeration Line Improvements (094612035)**

- Construction is proceeding with both contractors, GM McCrossin (2020-08) and HRI (2020-09). The pipe bridge has been installed, with the stainless-steel air piping in progress.

Payment Requests To Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incl/CO	Total Work to Date	% Monetarily Complete	Balance of Contract Amount
2020-08		\$47,917.63	\$511,096.00	\$57,722.28	11.29%	\$463,178.37
2020-09	4	\$3,852.00	\$103,505.00	\$45,285.00	43.75%	\$62,748.50
		\$51,769.63	\$614,601.00	\$103,007.28	16.76%	\$511,593.72

- HRI, Inc. (2020-09) has submitted Application for Payment No. 4 and we are recommending payment in the amount of \$3,852.00.
- Change Order No. 1 for Contract 2020-09 (HRI) has been compiled based on multiple changes to the original contract; details provided in the Change Order No. 1 document. RETTEW recommends an increase of \$4,797.06 in the total contract amount and an increase of 2 calendar days to the Substantial Completion deadline.

**Solar System – Phase II – Demolition and Site Prep (094612040)**

- Final closeout documents have been received from Stone Valley Construction (2020-10) and issued via separate cover for the project record.
- The Contractor is repairing storm damage that occurred to the vinyl fence gate at the beginning of the month.



**Solar System – Phase II Project**

- The second phase of the solar array is now partially operational and generating about 70 – 75% of the array’s capacity until West Penn Power completes the improvements on their end, which should be finished by early to mid-August.

**WWTP NPDES Permit – Phosphorus Study (094612027)**

- Installation of the stream monitoring instruments and data collection is continuing, with continuous monitoring of Spring Creek for part of the year to determine the level of any impairment during the growing period, prior to undertaking an intensive study during the critical high- temp, low-flow period.

**Ozone Disinfection for Effluent (094612023)**

- RETTEW is completing final design activities and is targeting an August 2021 request for bids for the project, pending approval of the Act 537 Special Study and issuance of the Water Quality Management Permit by the DEP.

**Anaerobic Digestion Project (094612026)**

- The Act 537 Special Study for Biosolids is working its way through review by the Centre Region municipalities.
- The Water Quality Management Part II Permit is under review by the DEP.
- RETTEW has begun final design of the proposed improvements to biosolids handling and treatment and will begin requesting bids later this fall.

**High Voltage Switchgear and Cable Replacement (094612045)**

- Thoroughbred Construction Group (2020-11) is completing the installation of the new electrical ductbanks and will soon be installing the new medium-voltage cabling. The new switchgear is expected to arrive on August 13th.
- Thoroughbred has submitted Application for Payment No. 2 and we are recommending payment in the amount of \$174,730.50.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price To Date incl/CO	Total Work To Date	% Monetarily Complete	Balance of Contract Amount
2020-11	2	\$174,730.50	\$1,043,639.00	\$361,165.00	34.61%	\$718,590.50
		\$174,730.50	\$1,043,639.00	\$361,165.00	34.61%	\$718,590.50

- Change Order No. 1 for Contract 2020-11 (Thoroughbred) has been compiled based on multiple changes to the original contract relating to excavation and construction of the new ductbanks; details are provided in the Change Order No. 1 document. RETTEW recommends an increase of \$77,797.21 in the total contract amount and an increase of 15 calendar days to the Substantial Completion deadline.

**Modifications to GD Kissinger Meadow Stream Augmentation**

- The Authority’s pending NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run requires a series of modifications in control and monitoring. The changes will require modulation of the flows to the stream via SCADA, to avoid abrupt changes in stream flow. Additionally, we anticipate essentially a non-detect chlorine limit which will require de-chlorination prior to stream discharge. We are working with staff to design, permit, and implement these modifications.

## 6.8 Executive Director's Report

### IT

Aaron Tate, UAJA Information Technology Manager, has been going through the plant finding items that need to be upgraded/changed and increase the cyber security. Aaron will schedule a meeting with the cyber security team and go through the items that were discovered and present his recommendations.

## 7 Other Business

### Solar Array

Mr. Guss asked if there would be any announcement that will be made with the solar array project. Ms. Aukerman said after everything is fully up and running full throttle there could be another ribbon cutting. Mr. Cory Miller also mentioned there will be a tour on Wednesday, August 11, 2021, at 8:30am to look at the solar array. Everyone is welcome.

### Executive Session

The meeting went into Executive Session at 4:54pm with a motion by Mr. Dempsey and second by Mr. Ebaugh.

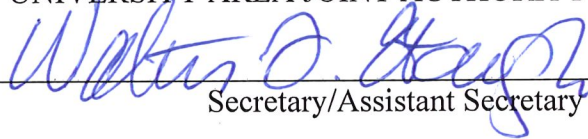
The meeting came out of Executive Session at 5:16pm with a motion by Mr. Ebaugh and second by Mr. Dempsey.

## 8 Adjournment

The meeting was adjourned at 5:16 p.m. via motion by Mr. Ebaugh and second by Mr. Dempsey.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

  
Secretary/Assistant Secretary