

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

**Regular Meeting – April 21, 2021**

**1. Call to Order**

Mr. Lapinski, Chair, called the meeting to order at 4:03 p.m., Wednesday, April 21, 2021. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messr. Auman, 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; and Jennifer Grove, Administrative Assistant. Those in attendance via Zoom were: Messrs. Daubert, Dempsey, Ebaugh, Miller, Nucciarone; Ben Burns, HRG Consulting Engineer; Kevin Mullen; C-NET; and Corey Rilk, COG Planning.

**2. Reading of the Minutes**

UAJA Regular Meeting – March 17, 2021

<b>UAJA Meeting Minutes Approved</b>
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A motion was made by Mr. Guss, seconded by Mr. Auman, to approve the minutes of the UAJA meeting held on March 17, 2021. 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.

**4. Old Business**

**4.1 None**

**5. New Business**

**5.1 Contract 2021-02 Bike Path Paving**

Bids were received April 14, 2021 for Contract 2021-02 Bike Path Paving. There were two bids received:

<b>G.O. Hawbaker</b>	<b>\$31.25/sq yd</b>
<b>Eby Paving</b>	<b>\$37.50/sq yd</b>

This contract is associated with the Shiloh Road Pump Station Project. \$65,000 was budgeted. The bids multiplied by the anticipated quantities are within the budgeted amount.

**Recommendation:** Award Contract 2021-02 to G.O. Hawbaker for \$31.25 per square yard.

<b>Award Contract 2021-02 to G.O. Hawbaker</b>
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A motion was made by Mr. Ebaugh, seconded by Mr. Nucciarone to award contract 2021-02 to G.O. Hawbaker for \$31.25 per square yard for the Bike Path Paving. The motion passed unanimously.

### 5.2 Final Design: West College Avenue Student Housing

Final design drawings for the West College Avenue Student Housing sewer extension (Ferguson Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 99 EDUs. The review comments have been addressed.

**Recommendation:** Approve the drawings as submitted.

<b>Drawings approved for West College Avenue Student Housing</b>
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A motion was made by Mr. Nucciarone, seconded by Mr. Dempsey to approve the drawings as submitted for West College Avenue Student Housing. The motion passed unanimously.

### 5.2 Requisitions

BRIF #531	Rettew Sludge Storage Tank Mixer Project	\$2,627.63
BRIF #532	Rettew AWT Instrumentation	\$7,667.38
BRIF #533	Rettew Switchgear Replacement Project	\$9,359.20
BRIF #534	HRG Greenbriar Sewer Design	\$1,802.50
BRIF #535	HRG Whitehall Road Project	\$5,200.00
BRIF #536	HRG Shiloh Pump Station Upgrade Project	\$998.45
BRIF #537	HRG Odor Control Project	\$982.50
BRIF #538	HRG Harris Reuse Extension Project	\$2,434.40
BRIF #539	HRG Scott Road Pump Station Upgrade	\$52,661.00
BRIF #540	HRG Fiber Optic Conduits	\$35,087.00
BRIF #541	Talan Services and Products AWT Membranes	\$72,700.00
BRIF #542	Mayer Electric Supply Shiloh Pump Station Upgrade	\$5,156.26

BRIF #543	Mayer Electric Supply Conduit Project	\$26,913.92
BRIF #544	Glossner’s Concrete Shiloh Pump Station Upgrade	\$3,091.00
BRIF #545	VWR Analytical Balance	\$8,151.50
BRIF #546	4-M Construction Services Sludge Tank Project- Pay App. #7	\$4,430.00

**TOTAL BRIF** **\$239,262.74**

**BRIF  
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Guss to approve BRIF #531, #532, #533, #534, #535, #536, #537, #538, #539, #540, #541, #542, #543, #544, #545 and #546 in the amount of \$239,262.74. The motion passed unanimously.

Construction Fund #001	Rettew Aeration Line Project	\$2,520.00
Construction Fund #002	Rettew Ozone Disinfection Project	\$41,308.75
Construction Fund #003	Rettew Biosolids Upgrade Project	\$80,968.26

**TOTAL 2020 A CONSTRUCTION FUND** **\$124,797.01**

**Construction Fund  
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Nucciarone to approve Construction Fund #001, #002 and #003 in the amount of \$124,797.01. The motion passed unanimously.

Revenue Fund #176	Debt Service, Operation and Maintenance Expenses	\$1,000,000
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**TOTAL REVENUE FUND** **\$1,000,000**

**Revenue Fund  
Approved**

A motion was made by Mr. Auman, seconded by Mr. Daubert to approve Revenue Fund #176 in the amount of \$1,000,000.00. The motion passed unanimously.

## 6. Reports of Officers

### 6.1 SCBWA Liaison

None.

Mr. Dempsey attended the SCBWA meeting and gave a general update on what is going on at UAJA and tried to highlight anything that may affect SCBWA.

### 6.2 Financial Report

The different cost centers of the YTD budget report for the period ending March 31, 2021 were reviewed with the Board by Jason Brown.

An audit committee is needed to finish the audit which consists of three volunteers from the board members. Mr. Guss and Mr. Auman volunteered, and it was suggested Mr. Kunkle attend as he is new to the process and could gain familiarity. The date and time are not yet known.

### 6.3 Chairman’s Report

Communication was received from Centre Hills about concern for future pressure. Mr. Cory Miller will be sending them a letter in response.

### 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>Oct. 2020</u>	<u>Nov. 2020</u>	<u>Dec. 2020</u>	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>
<b>Production</b>	892 cu/yds.	797 cu/yds.	848 cu/yds.	716 cu/yds.	673 cu/yds.	897 cu/yds.
<b>YTD. Production</b>	10,434 cu/yds.	11,231 cu/yds.	12,079 cu/yds.	716 cu/yds.	1,389 cu/yds.	2,286 cu/yds.
<b>Distribution</b>	3,152 cu/yds.	952 cu/yds.	0 cu/yds.	120cu/yds.	11 cu/yds.	978 cu/yds.
<b>YTD. Distribution</b>	11,560 cu/yds.	12,512 cu/yds.	12,512 cu/yds.	120 cu/yds.	131 cu/yds.	1,109 cu/yds.
<b>Immediate Sale</b>	400 cu/yds.	892 cu/yds.	1,684 cu/yds.	2,412 cu/yds.	3,117 cu/yds.	2,812 cu/yds.
<b>Currently in Storage</b>	1,292 cu/yds.	1,689 cu/yds.	2,532 cu/yds.	3,128 cu/yds.	3,790 cu/yds.	3,709 cu/yds.

#### SEPTAGE OPERATIONS

	<u>Oct. 2020</u>	<u>Nov. 2020</u>	<u>Dec. 2020</u>	<u>Jan. 2021</u>	<u>Feb. 2021</u>	<u>Mar. 2021</u>
<b>Res./Comm.</b>	77,450 gals.	68,500 gals.	78,350 gals.	55,000 gals.	57,530 gals.	71,300 gals.
<b>CH/Potter</b>	2,602.08 lbs/solids	3,794.70 lbs/solids	5,041.53 lbs/solids	5,421.00 lbs/solids	3,923.97 lbs/solids	2,777.22 lbs/solids
<b>Port Matilda</b>	1,517.88 lbs/solids	1,367.76 lbs/solids	1,601.28 lbs/solids	834.00 lbs/solids	1,434.48 lbs/solids	1,684.68 lbs/solids
<b>Huston Twp.</b>	300.24 lbs/solids	1000.80 lbs/solids	733.92 lbs/solids	717.24 lbs/solids	617.16 lbs/solids	533.76 lbs/solids
<b>Total Flow</b>	114,950 gals.	123,000 gals.	133,250 gals.	116,000 gals.	114,030 gals.	113,800 gals.

**Plant Operation**

The treatment plant is operating well with one exception. We were out of compliance for phosphorus. This was due the mechanical issues with the Alum pump. The 12-month rolling average flow for March was 3.15mgd with the average for the month being 4.75mgd. The average monthly **influent** flow was 5.78mgd.

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:

	Mar-21	YTD	Plant Effl. Temp	Wetland Effl. Temp.
<b>Best Western</b>	19,000	46,000		
<b>Centre Hills</b>	0	0	Mar-21	Mar-21
<b>Cintas</b>	483,000	1,344,000	55.0	55.8
<b>Red Line</b>	562,000	1,617,000		
<b>UAJA Wetland</b>	4,488,000	7,918,000		
<b>GDK Vault</b>	17,233,000	57,218,000		
<b>Kissingers</b>	1,909,000	5,675,000		
<b>Stewarts/M.C.</b>	2,000	10,000		
<b>TOTAL</b>	24,696,000	73,828,000		

**Plant Maintenance**

- Changed Auma actuator on Aeration train #3.
- Serviced and rebuilt several Landia Mixers.
- Installed a new Lab incubator.
- Worked on brush system on Secondary Clarifiers.
- Replaced and/or repaired lighting at Compost.
- Removed rags from Primary Tanks #4 and #5 at Dewatering.
- Fabricated a new spool for MF #3
- Work was done on the installation of new equipment for the MF’s and RO units.

**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 – 1,700 ft of force main and 1,650 ft of conduit has been installed.

Main Line Televising – 6,970.5 ft televised - 63 manholes inspected.

Mainline Cleaning – 658.9 ft cleaned – 6 manholes inspected.

Equipment maintenance.

**Lift Station Maintenance:**

Rebuilt mixing agitator on pump 1 at Marywood station.

Cleaned (7) lift station wet wells.

Routine Maintenance.

**Next Month Projects:**

Continue the Shiloh Rd. pump station upgrade project.

Continue conduit project at Shiloh station.  
Cleaning wet wells.  
Televise paving projects.  
Start restoration on Harris Reuse and Greenbriar projects.

**Inspection:** Final As-Builts Approved: None

Mainline Construction:

- a. Harner Farms – Construction is approximately (85%) complete.
- b. Patton Crossing Phase 1 – Awaiting As-Builts.

New Connections:

- |                              |    |                    |   |
|------------------------------|----|--------------------|---|
| a. Single-Family Residential | 21 | c. Commercial      | 1 |
| b. Multi-Family Residential  | 0  | d. Non-Residential | 0 |

**TOTAL 22**

PA One-Calls Responded to 03/1-31/21: 500

## 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)**

- Assisted with the completion of capacity tables for Component 3 Planning Modules being prepared by developers.

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

- Contract No. 17-03: General Construction (Global Heavy Corporation) – Complaint against the UAJA and HRG.
- The Air Quality Plan Approval must be transitioned to an Operating Permit, which will require the identification and characterization of emissions from all sources at the facility.

### **Greenbriar Sanitary Sewer (R001178.0631)**

- GeoDecisions provided a link to updated data. The record drawings will be finalized.

### **Shiloh Road Pump Station Upgrades (R001178.0632)**

- HRG is available to assist with construction phase services.

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

- Contract 2020-02 (Ligonier) has completed the conventional bore crossing of SR 0322 near the Centre Hills Booster Station. A value of \$3,000.00 is being retained as a punch list item until restoration can be confirmed.
- Mountain View has stated that its irrigation system operates at 125 psi (range: 110-135 psi). The hydraulic water model has been updated and field testing is scheduled for Thursday (April 15<sup>th</sup>).
- Both country clubs may need to install pressure reducing valves if the system is operated at full capacity.

### **Scott Road Pump Station and Bristol Interceptor – Act 537 Plan Special Study (R001178.0661)**

- The proposed force main along Bristol Avenue will be located within a drainage easement, which will require approval from Ferguson Township along with an easement from the property owner.

Drawings have been provided to Ferguson Township.

- The Water Quality Management Permit was issued.
- HRG and UAJA staff met with representatives of Flygt and Stacom to review the requirements for the equipment to be procured by the Authority.
- Final design documents are being prepared.

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

- The Special Study was updated and re-submitted to the Authority staff for 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.

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

- Drawings were prepared for the Shiloh Road alignment to Premier Drive. The drawings were sent to Columbia Gas for review since apportion of the alignment is within their right-of-way.
- A roadway occupancy permit was submitted to College Township for the crossing of Trout Road (Shiloh Road alignment).
- HRG and UAJA staff are working with Columbia Gas to determine if the conduit can occupy the same right-of-way as the gas utility.

#### **Entry Road Storm Water Improvements – (R001178.0681)**

- The entry road design was reviewed with UAJA staff and updated based on specific comments.
- Permit applications have been prepared and submission is being coordinated for this week.
- A preliminary right-of-way exhibit was provided to the Authority's solicitor to begin discussions with the property owner.

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

- Field survey data was collected and a base map was prepared.
- HRG reviewed the alignment in the field with UAJA representatives.
- Due to the number of units and sequencing of connections, the system is proposed as two zones, consisting of 1.5 inch and 2 inch diameter low pressure sewer.
- Preliminary drawings have been prepared and will be used as the basis to prepare a Component 3M Sewage Facilities Planning Module.

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

- HRG met with UAJA representatives and Ferguson Township review stream restoration work proposed by the Township. AutoCAD files were obtained from the Township's consultant. Profiles are being generated to determine the best approach for replacing or rehabilitating the sewer.
- Replacement of the sewer will require separate permitting, involving a GP-5 or GP-11.
- An engineering services agreement will be prepared.

#### **Developer Plan Reviews**

- The Contractor's (GOH/Hawbaker Eng) as-built drawings for sanitary system associated with the PennDOT work in North Atherton St. were reviewed and returned for corrections; April 8, 2021 (1178.0686).
- The Developer's design drawings for the sanitary system for Canterbury Crossing Phase 1C were recommended to Staff; March 11, 2021 (1178.0697).
- The Developer's design drawings for the sanitary system for Aspen Heights, Squirrel Drive were recommended to Staff; April 8, 2021 (1178.0696).
- The Developer's design drawings for the sanitary system for West College Student Housing were recommended to Staff; March 23, 2021 (1178.0698).
- The Developer's as-built drawings for the sanitary system for Patton Crossing Phase 1 were

recommended to Staff; April 9, 2021 (1178.0700).

## 6.7 Construction Report

### ENR/AWT Upgrade Project (094612009)

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

### Sludge Storage Tank Mixer (094612034)

- Definitive Certificate of Substantial Completion has been issued via separate cover for 4-M Construction Services LLC (2020-01). Definitive Certificate of Substantial Completion has been issued for Stelco, Inc. (2020-05).

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incld/CO	Total Work to Date	% Monetarily Complete	Balance of Contract Amount
2020-01	7-Final	\$4,430.00	\$69,600.00	\$69,600.00	100.00%	\$0.00
2020-05			\$29,380.14	\$26,832.45	91.33%	\$5,230.94
		\$4,430.00	\$98,980.14	\$96,432.45	97.43%	\$2,547.69

- 4-M Construction Services LLC (2020-01) has submitted Application for Payment No. 7-Final and we are recommending final payment in the amount of \$4,430.00. Stelco, Inc. (2020-05) has submitted Application for Payment No. 4-Final however we are not recommending final payment until all record drawings have been received.

### Aeration Line Improvements (094612035)

- Both contractors, GM McCrossin (2020-08) and HRI (2020-09), are providing submittals for review and intend to begin site work later this month.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incld/CO	Total Work to Date	% Monetarily Complete	Balance of Contract Amount
2020-08			\$511,096.00		0.00%	\$511,096.00
2020-09			\$103,505.00	\$4,005.00	3.87%	\$99,900.50
		\$0.00	\$614,601.00	\$4,005.00	0.65%	\$610,596.00

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

- The project is on target for an April commissioning with panel installation effectively complete. The plant-wide shutdown is scheduled for April 22<sup>nd</sup>, and BESS and inverter commissioning the week after for three days. Initial operations are slated for May.
- The Authority's Site Prep and Fencing contractor has begun installation of the perimeter fencing and expects to have the area fenced this month.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incld/CO	Total Work to Date	% Monetarily Complete	Balance of Contract Amount



2020-10			\$265,908.00	\$190,982.00	71.82%	\$94,024.20
		\$0.00	\$265,908.00	\$190,982.00	71.82%	\$94,024.20

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

- Installation of the stream monitoring instruments will begin over the next month, 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)**

- The application for a Water Quality Management Part II Permit has been submitted to the Pennsylvania Department of Environmental Protection for the use of ozone as the disinfectant of the plant effluent. We are in the process of completing final design for the addition of the ozone system.
- The ACT 537 Plan Special Study has been prepared and distributed to the County and Regional Planning Agencies and Commissions. Adoption is slated for Summer.

**Anaerobic Digestion Project (094612026)**

- RETTEW is has completed the preliminary design of the proposed Biosolids Improvement project and has submitted the Water Quality Management Permit to the PA DEP. We have begun the Act 537 Plan Special Study requested by the PA DEP and then will commence final design activities.
- Negotiations have begun with several potential biosolids contributors, along with the Gas Utility for off take of the Renewable Natural Gas.

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

- The contractor, Thoroughbred Construction Group, has begun mobilization and will begin site work later this month.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incld/CO	Total Work to Date	% Monetarily Complete	Balance of Contract Amount
2020-11			\$1,043,639.00		0.00%	\$1,043,639.00
		\$0.00	\$1,043,639.00	\$0.00	0.00%	\$1,043,639.00

**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**

**Residential Solar Program**

An official work session will be scheduled to talk about the solar project around the second week of May, but the exact date is yet to be determined. It will take about two hours and is open to the public. A decision will need to be made no later than July.

**Past Due Accounts**

There wasn't an update on past due balances for UAJA accounts but it was noted there have been an influx of payments.

**In-person Board Meetings**

Mr. Nucciarone had asked if UAJA plans to continue the hybrid model for meetings. Mr. Cory Miller stated this is considered a small group and as long as attendees are vaccinated and social distancing is observed we are ok right now. Eventually there could be too many people so that challenge would be having to find a different location for the public to have enough space to social distance. We do expect changes in the future and will adapt to them as they come.

**Solar Field Grazing**

Mr. Guss mentioned the American Solar Grazing Association and asked about sheep from a neighboring farm grazing the solar field instead of mowing. Mr. Cory Miller said that could be a possibility. Some essential components will need to be bulletproof but that is something that can be investigated.

**7 Other Business**

None.

**8 Adjournment**

The meeting was adjourned at 4:46 p.m. via motion by Mr. Nucciarone and second by Mr. Dempsey.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

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Secretary/Assistant Secretary