

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

Regular Meeting – February 17, 2021

1. Call to Order

Mr. Lapinski, Chairman, called the meeting to order at 4:00 p.m., Wednesday, February 17, 2021. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messr. Lapinski; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent and Jennifer Grove, Administrative Assistant. Those in attendance via Zoom were: Messrs. Auman, Daubert, Dempsey, Derr, Ebaugh, Guss, Kunkle and Nucciarone; Ben Burns, HRG Consulting Engineer; Jeff Garrigan, HRG Consulting Engineer; David Gaines, Solicitor; Michele Aukerman and Jason Wert, Rettew; Kevin Mullen; C-NET; Scott Shearer and Karli Keisling, Public Financial Management; Corey Rilk, COG Planning; Tom Smida, Mette Evans & Woodside.

2. Reading of the Minutes

UAJA Regular Meeting – January 20, 2021

**UAJA Meeting
Minutes Approved**

A motion was made by Mr. Derr, seconded by Mr. Kunkle, to approve the minutes of the UAJA meeting held on January 20, 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 by \$2,000 for five of the last six years and would like that money back plus interest.

4. Old Business

4.1 Series A of 2021 Revenue Bonds (Refunding)

A representative of Public Financial Management (PFM) will present an update on the status of the bond market, as well as the results of the Request for Proposals for underwriting for the Series 2021 Bonds. A handout is included in the agenda report. This bond issue wraps around the existing debt, with the majority of the principal being paid in 2034 and 2035. The proceeds will be used to finance the digester/dryer project. Because the reduction in operating expenses and increase in revenues will not be realized until the project is complete, the proceeds also fund capitalized interest for the first two years.

The PFM presentation will be followed by Tom Smida of Mette Evans and Woodside explaining the parameters resolution. It is anticipated the pricing will occur in on or around February 18, 2021.

Recommendation: Adopt Resolution 2021-02, the Parameters Resolution.

**Resolution 2021-02
Adopted**

A motion was made by Mr. Guss, seconded by Mr. Daubert, to adopt Resolution 2021-02, the Parameters Resolution. The motion passed unanimously.

4.2 Contract 2020-11 High Voltage Switchgear Replacement

Bids were received February 16, 2021 through Pennbid. Ten bids were received, with Thoroughbred Construction Group being the low bidder. The bid tabulation is included in the agenda report.

Recommendation: Award Contract 2020-11 to Thoroughbred Construction Group in the amount of \$1,043,639.00.

Contract 2020-11 Awarded

A motion was made by Mr. Ebaugh, seconded by Mr. Dempsey, to award contract 2020-11 to Thoroughbred Construction Group in the amount of \$1,043,639.00. The motion passed unanimously.

5. New Business

5.1 Final Design: Hawk Ridge Subdivision

Final design drawings for the Hawk Ridge Subdivision sewer extension (Harris Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 11 EDUs of single-family homes. The review comments have been addressed.

Recommendation: Approve the drawings as submitted.

Drawings approved for Hawk Ridge Subdivision Sewer Extension

A motion was made by Mr. Derr, seconded by Mr. Daubert, to approve the drawings as submitted for Hawk Ridge Subdivision sewer extension in Harris Township. The motion passed unanimously.

5.2 Requisitions

BRIF #496	Rettew Aeration Line Improvement Project	\$5,204.25
BRIF #497	Rettew Sludge Storage Tank Mixer Project	\$660.00
BRIF #498	Rettew Ozone Disinfection Project	\$1,347.00
BRIF #499	Rettew Biosolids Upgrade Project	\$24,167.75
BRIF #500	Rettew Solar Battery Operations	\$2,015.75
BRIF #501	Rettew Solar Phase II Project	\$103.50
BRIF #502	Rettew AWT Water Quality Plan	\$11,463.55

BRIF #503	Rettew Phosphorus Study	\$769.50
BRIF #504	Rettew AWT Instrumentation	\$1,018.00
BRIF #505	Rettew Switchgear Replacement Project	\$17,960.65
BRIF #506	HRG Harris Reuse Extension	\$772.50
BRIF #507	HRG Scott Road Pump Station Upgrade	\$18,020.00
BRIF #508	HRG Odor Control Project	\$300.00
BRIF #509	HRG UAJA Entry Road Project	\$1,939.55
BRIF #510	Ligonier Construction Harris Reuse Project- Pay App. #4	\$6,000.00
BRIF #511	Stone Valley Construction Solar Phase II Project- Pay App. #3	\$21,548.70
BRIF #512	4-M Construction Sludge Tank Project- Pay App. #6	\$10,972.50
BRIF #513	Stitzer Crane Service, Inc. Shiloh Road Pump Station Upgrade	\$2,010.00
TOTAL BRIF		\$126,273.20

**BRIF
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Derr to approve BRIF #496, #497, #498, #499, #500, #501, #502, #503, #504, #505, #506, #507, #508, #509, #510, #511, #512 and #513 in the amount of \$126,273.20. The motion passed unanimously.

Revenue Fund #175	Debt Service, Operation and Maintenance Expenses	\$1,000,000
TOTAL REVENUE FUND		\$1,000,000

**Revenue Fund
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Daubert, to approve Revenue Fund #175 in the amount of \$1,000,000.00. 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 January 31, 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>Aug. 2020</u>	<u>Sep. 2020</u>	<u>Oct. 2020</u>	<u>Nov. 2020</u>	<u>Dec. 2020</u>	<u>Jan. 2021</u>
Production	866 cu/yds.	1,029 cu/yds.	892 cu/yds.	797 cu/yds.	848 cu/yds.	716 cu/yds.
YTD. Production	8,513 cu/yds.	9,542 cu/yds.	10,434 cu/yds.	11,231 cu/yds.	12,079 cu/yds.	716 cu/yds.
Distribution	656 cu/yds.	1,373 cu/yds.	3,152 cu/yds.	952 cu/yds.	0 cu/yds.	120 cu/yds.
YTD. Distribution	7,035 cu/yds.	8,408 cu/yds.	11,560 cu/yds.	12,512 cu/yds.	12,512 cu/yds.	120 cu/yds.
Immediate Sale	3,850 cu/yds.	2,824 cu/yds.	400 cu/yds.	892 cu/yds.	1,684 cu/yds.	2,412 cu/yds.
Currently in Storage	4,716 cu/yds.	3,853 cu/yds.	1,292 cu/yds.	1,689 cu/yds.	2,532 cu/yds.	3,128 cu/yds.

SEPTAGE OPERATIONS

	<u>Aug. 2020</u>	<u>Sep. 2020</u>	<u>Oct. 2020</u>	<u>Nov. 2020</u>	<u>Dec. 2020</u>	<u>Jan. 2021</u>
Res./Comm.	68,347 gals.	68,921 gals.	77,450 gals.	68,500 gals.	78,350 gals.	53,400 gals.
CH/Potter	3,932.31 lbs/solids	3,448.91 lbs/solids	2,602.08 lbs/solids	3,794.70 lbs/solids	5,041.53 lbs/solids	5,421.00 lbs/solids
Port Matilda	617.16 lbs/solids	1,451.16 lbs/solids	1,517.88 lbs/solids	1,367.76 lbs/solids	1,601.28 lbs/solids	834.00 lbs/solids
Huston Twp.	567.12 lbs/solids	550.44 lbs/solids	300.24 lbs/solids	1,000.80 lbs/solids	733.92 lbs/solids	717.24 lbs/solids
Total Flow	106,347 gals.	112,921 gals.	114,950 gals.	123,000 gals.	133,250 gals.	116,000 gals.

Plant Operation

The treatment plant is operating well with no exceptions for the month of January 2021. The 12-month rolling average flow for January was 3.02mgd with the average for the month being 3.31mgd. The average monthly **influent** flow was 4.09mgd.

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:

	Jan.-21	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	13,000	13,000		
Centre Hills	0	0	Jan.-21	Jan.-21
Cintas	464,000	464,000	54.4	52.2
Red Line	500,000	500,000		
UAJA Wetland	3,430,000	3,430,000		
GDK Vault	22,370,000	22,370,000		
Kissingers	1,987,000	1,987,000		
Stewarts/M.C.	2,000	2,000		
TOTAL	28,766,000	28,766,000		

Plant Maintenance

- Changed Aeration Tank Mixers 501 and 504.
- Changed diaphragm in Primary Pump #1.
- Worked on snow removal.
- Used Big Red to clean both scum pits and hopper #9 in Primary Tank #5. Also serviced while it was off-line.
- Replaced heat pump for the Lab area.
- Odor Blower #2 was rebuilt and put back on-line.
- Replaced magnetic contactor for Centrifuge #1.
- The new Blower for Big Berth was test run.
- Repaired actuator valve 1674 on RO#1
- Ran conduit for new caustic pump controls.

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:

New Construction – Greenbriar – 80 homes are now connected to our system. Restoration will be completed in the spring.

Harris Reuse Project – Installed (1,780 ft) of 12” main.

Shiloh Pump Station Project – Wet well was set Jan. 29th, will start working on valve pit and plumbing.

Main Line Televising – 799 ft televised - 8 manholes inspected.

Mainline Cleaning – 3,584 ft cleaned – 27 manholes inspected.

Equipment maintenance.

Lift Station Maintenance:

- Completed pump oil changes at all stations
- Completed service on all generators.
- Cleaned (6) lift station wet wells.
- Routine Maintenance.

Next Month Projects:

- Continue the Shiloh Rd. pump station upgrade project.
- Complete Harris Reuse project.
- Cleaning wet wells.
- Televised paving projects.

Inspection:

Final As-Builts Approved:

- Rockey Ridge section 5
- Grays Pointe phase 6 section C

Mainline Construction:

- a. Harner Farms – Construction is approximately (75%) complete.
- b. Patton Crossing Phase 1 – Construction is approximately (80%) complete

New Connections:

a. Single-Family Residential	7	c. Commercial	0
b. Multi-Family Residential	0	d. Non-Residential	0
TOTAL			7

PA One-Calls Responded to 01/1-31/21: 249

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 (R001178.0676)

Chapter 94 Municipal Wasteload Management Report

Pump station capacity and loading tables have been developed and the sewer extensions map is being prepared.

Odor Control System Upgrades (R001178.0597)

- Contract No. 17-03: General Construction (Global Heavy Corporation)- Complaint against the UAJA and HRG.
- Variable frequency drive training occurred on February 5th. Revisions are required to some of the Operation and Maintenance Manuals submitted by Contract No. 17-04.

Greenbriar Sanitary Sewer (R001178.0631)

- Record Drawings will be finalized after revised field data for locator boxes is provided by GeoDecisions.

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.
- The following summarizes applications for payment submitted for this project.

Applications for Payment						
Contract No.	Application for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	% Monetary Complete	Balance to Finish Plus Retainage
2020-02	4	\$6,000.00	\$303,000.00	\$303,000.00	100%	\$3,000.00

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

- Preliminary drawings are being prepared and will be available for review by staff this week. The application for a Water Quality Management Permit is ready to be submitted with the Authority’s authorization.

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)

- A meeting was held with representatives of the Data Center to discuss design requirements and terminal locations for the fiber optic conduit.
- Drawings were prepared to illustrate the concurrent installation of the Shiloh Road Pump State Force Main and the fiber conduit along Trout Road. The supplemental HOP was issued by PennDOT and College Township has indicated that the amended roadway occupancy permit will be forthcoming.
- The Shiloh Road alignment is being developed and drawings are being prepared. Field survey is being collected for the SR 26/Short Street alignment. HRG is coordinating with other utilities to determine if it is acceptable to occupy existing easements.

Entry Road Storm Water Improvements – (R001178.0681)

- The preliminary design drawings have been prepared and were submitted to staff for review. With approval, the permit applications can be submitted.

Developer Plan Reviews:

- The Contractor’s (GOH/Hawbaker Eng.) as-built drawings for sanitary replacements associated with the PennDOT work in North Atherton St were reviewed and returned for corrections; December 22, 2020 (1178.0686).

- The Developer’s as-built drawings for sanitary system for Rockey Ridge Section 5 were reviewed and recommended to Staff; January 21, 2021 (1178.0691).
- The Developer’s as-built drawings for the sanitary system for Grays Pointe Phase 6C were reviewed and recommended to staff; February 5, 2021 (1178.0694).
- The Developer’s design drawings for the sanitary system for Hawk Ridge development were reviewed and recommended to staff; February 5, 2021 (1178.0695).

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)

- Application for Payment No. 06 has been submitted by 4-M Construction Company (Contract 2020-01) and we are recommending payment in the amount of \$10,872.50.

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	6	10,872.50	\$68,600.00	\$68,600.00	100.00%	\$3,430.00
2020-05			\$27,750.00	\$26,832.45	96.69%	\$3,600.80
		\$10,872.50	\$96,350.00	\$95,432.45	99.05%	\$917.55

Aeration Line Improvements (094612035)

- Executed contract documents have been received back from G.M. McCrossin (2020-08) and HRI, Inc. (2020-09). All documents appear in order and as such we recommend execution of documents and issuance of the Notice to Proceed.

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

- The initial phase for this Contract (2020-10) has been completed. The remaining work, consisting of the perimeter fencing, will be completed in early spring after installation of the panels.
- Application for Payment No. 03 has been submitted by Stone Valley Construction (Contract 2020-10) and we are recommending payment in the amount of \$21,548.70.

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	3	\$21,548.70	\$265,908.00	\$190,982.00	71.82%	\$94,024.20
		\$21,548.70	\$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 (March – November), 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.

Anaerobic Digestion Project (094612026)

- RETTEW has begun the preliminary design of the proposed Biosolids Improvement project and will be working with staff over the next few months to prepare this design for review and approval.

High Voltage Switchgear and Cable Replacement (094612045)

- Bids are scheduled to be received, Tuesday, February 16th. We will present the bids received for consideration during the Board Meeting.

Modifications to GD Kissinger Meadow Stream Augmentation

- We anticipate upcoming changes to the Authority's NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run. The changes will require the Authority to modulate 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.

Nutrient Credit Offsets – Solar Installation and Stormwater Offsets (094612028)

- A conference call to discuss the nutrient credit offsets was held with the Authority, the PADEP, the Environmental Protection Agency, and RETTEW.

Solar Phase II Progress

- The project is on target for an April commissioning with panel installation slated to begin this month.

6.8 Executive Director's Report

Design Review for Biosolids Project

Invites will be sent out for anyone interested in sitting in on the design review for the biosolids project on Friday, February 26, 2021 at 10AM via zoom.

RO Units

Currently UAJA is running on one of the two units. There was an ozone leak through to the front end of the reverse osmosis membranes and some of the RO membranes were damaged. The bad were swapped out for good ones which created one good RO unit that works perfectly. Currently they are pricing new RO membranes which should cost around sixty to seventy thousand dollars approximately. An investigation is being conducted to find out why this

happened and what failed to send an alarm. The new membranes will not get put in until this is figured out, but they have time due to the membranes being a month or two out.

7 Other Business

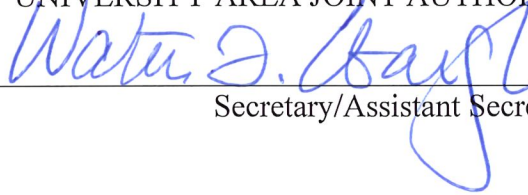
None.

8 Adjournment

The meeting was adjourned at 4:43 p.m. via motion by Mr. Nucciarone and second by Mr. Dempsey.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary