

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

**Regular Meeting – April 20, 2022**

**1. Call to Order**

Mr. Lapinski, Chair, called the regular meeting to order at 4:01 p.m., Wednesday, April 20, 2022. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messrs. Auman, Daubert, Dempsey, Derr, Ebaugh, Guss and Strickland; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent; Jennifer Grove, Administrative Assistant; David Gaines, Solicitor; Jason Wert, Rettew; Michele Aukerman, Rettew; C-NET; Ben Burns, HRG Consulting Engineer; Jeff Garrigan, HRG Consulting Engineer; Tom Songer, Torron Group; and Fritz Smith, President and CEO of Happy Valley Adventure Bureau. The following were in attendance via Zoom: Messrs. Kunkle and Nucciarone; Corey Rilk, Centre Region Planning; Sam Robbins, State College Borough; Michael Shreve, PSU; Tom Richard, PSU; Megan Miller, Rettew; and Shirley Clark.

**2. Reading of the Minutes**

UAJA Regular Meeting – March 16, 2022

**UAJA Meeting  
Minutes Approved**

A motion was made by Mr. Daubert, second by Mr. Derr, to approve the minutes of the UAJA meeting held on March 16, 2022. The motion passed unanimously.

**3. Public Comment**

**3.1 Other items not on the agenda**

None.

**4. Old Business**

**4.1 Appointment C-Net Representative**

C-Net has requested that UAJA appoint a representative to the C-Net Board.

**Recommendation:** Appoint a representative to the C-Net Board.

**C-Net Board  
Representative  
Appointed**

Mr. Lapinski moved to appoint Matt Auman as the representative on the C-Net Board. Mr. Guss second that movement. The motion passed unanimously.

**5. New Business**

**5.1 SARS-CoV-2 Monitoring Proposal Penn State Wastewater Epidemiology Team**

During the pandemic, UAJA has been providing samples to the Penn State Wastewater Epidemiology Team so they could determine SARS-CoV-2 levels within the wastewater system. The team will present a proposal for continued sampling and analysis through funding from the Pennsylvania Department of Health.

**Recommendation:** Presentation, no action required.

**PA-DOH  
Monitoring  
Program Pass-  
Through Funding  
Approved**

A motion was made by Mr. Guss, second by Mr. Auman, to proceed with the PA-DOH monitoring program. PA-DOH will provide “pass-through” funding to UAJA to contract with Penn State Wastewater Epidemiology Lab to analyze samples and the funding will be provided to quantify and sequence 24-hour composite influent samples three times per week for 18 months. The motion passed unanimously.

## 5.2 Biosolids Project Design Presentation

The Biosolids project is progressing, but there have been significant changes based on site conditions and project meetings. RETTEW will provide the Board with an update on the current status of the project, and changes in projected sludge and food waste quantities that may affect the project.

**Recommendation:** Presentation, no action required.

**Biosolids Sub-  
Committee Formed**

A motion to form a biosolids sub-committee was made by Mr. Ebaugh, second by Mr. Nucciarone. The committee members will consist of Ms. Strickland, Mr. Auman and Mr. Derr. The motion passed unanimously.

## 5.3 Requisitions

BRIF #679	HRG Scott Road Pump Station Project	\$452.50
BRIF #680	HRG Princeton Dr. Sewer Replacement	\$2,240.00
BRIF #681	HRG Whitehall Road Project	\$960.00
BRIF #682	HRG Meeks Lane Pump Station Project	\$28,687.50
BRIF #683	Centre Concrete Company Scott Road Pump Station Project	\$302.45
BRIF #684	Ducken Tree Farm, LLC Scott Road Pump Station Project	\$1,877.10
BRIF #685	YBC State College Scott Road Pump Station Project	\$420.60
BRIF #686	Glossners Concrete, Inc. Scott Road Pump Station Project	\$4,748.50

BRIF #687	R.C. Bowman, Inc. Scott Road Pump Station Project	\$1,200.00
BRIF #688	Pinnacle Erosion Control Scott Road Pump Station Project	\$723.00
BRIF #689	SiteOne Landscape Supply Scott Road Pump Station Project	\$1,903.22
BRIF #690	L/B Water Service North Oak Lane Project	\$346.10
BRIF #691	John Nastase Construction Scott Road Pump Station Project-Pay App. #2	\$142,200.00
BRIF #692	Morefield Communications Cisco Router Replacement	\$4,578.45
<b>TOTAL BRIF-</b>		<b>\$190,639.42</b>

**BRIF  
Approved**

A motion was made by Mr. Nucciarone, second by Mr. Kunkle to approve BRIF #679, #680, #681, #682, #683, #684, #685, #686, #687, #688, #689, #690, #691 and #692 in the amount of \$190,639.42. The motion passed unanimously.

Construction Fund #035	Rettew Ozone Disinfection Project	\$5,339.00
Construction Fund #036	Rettew Biosolids Upgrade Project	\$81,039.91
Construction Fund #037	McClure Company Ozone Disinfection Project- Pay App. #1	\$3,915.00
<b>TOTAL 2020 A CONSTRUCTION FUND</b>		<b>\$90,293.91</b>

**Construction Fund  
Approved**

A motion was made by Mr. Nucciarone, second by Mr. Derr to approve Construction Fund #035, #036 and #037 in the amount of \$90,293.91. The motion passed unanimously.

Revenue Fund #186	Debt Service, Operation and Maintenance Expenses	\$1,000,000
<b>TOTAL REVENUE FUND</b>		<b>\$1,000,000</b>

**Revenue Fund  
Approved**

A motion was made by Mr. Ebaugh, second by Mr. Dempsey to approve Revenue Fund #186 in the amount of \$1,000,000. The motion passed unanimously.

**6. Reports of Officers**

**6.1 SCBWA Liaison**

None. Mr. Lapinski asked if we could find out if SCBWA plans to attend the UAJA Board meetings anymore.

**6.2 Financial Report**

The different cost centers of the YTD budget report for the period ending March 31, 2022, were reviewed with the Board by Jason Brown.

An audit sub-committee is needed to review the audit which consists of three volunteers from the board members. Mr. Kunkle, Mr. Guss and Ms. Strickland volunteered. The date and time are not yet known.

**6.3 Chairman’s Report**

Due to a change in residence, Mr. Dempsey will no longer be a member of the board. Sincere appreciation was expressed for what he has done.

Mr. Dempsey gave a report to the board on rate structure that included: history of rate structure at UAJA, conservation and social equity issues and impact on rate structure, the case for fixed rate, the case for volumetric billing, the case for a hybrid of volumetric and fixed rate billing and commercial accounts. The board members discussed this report and Mr. Songer and Mr. Smith spoke in support of the rate committee’s work.

**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. 2021</u>	<u>Nov. 2021</u>	<u>Dec. 2021</u>	<u>Jan. 2022</u>	<u>Feb. 2022</u>	<u>Mar. 2022</u>
<b>Production</b>	990 cu/yds.	701 cu/yds.	700 cu/yds.	839 cu/yds.	768 cu/yds.	874 cu/yds.
<b>YTD. Production</b>	8,506 cu/yds.	9,207 cu/yds.	9,907 cu/yds.	839 cu/yds.	1,607 cu/yds.	2,481 cu/yds.
<b>Distribution</b>	803 cu/yds.	1,015 cu/yds.	974 cu/yds.	535 cu/yds.	769 cu/yds.	936 cu/yds.
<b>YTD. Distribution</b>	9,060 cu/yds.	10,075 cu/yds.	11,049cu/yds.	535 cu/yds.	1,304 cu/yds.	2,240 cu/yds.
<b>Immediate Sale</b>	937 cu/yds.	963 cu/yds.	701 cu/yds.	866 cu/yds.	936 cu/yds.	768 cu/yds.
<b>Currently in Storage</b>	1,978 cu/yds.	1,664 cu/yds.	1,401 cu/yds.	1,705 cu/yds.	1,704 cu/yds.	1,642 cu/yds.

**SEPTAGE OPERATIONS**

	<u>Oct. 2021</u>	<u>Nov. 2021</u>	<u>Dec. 2021</u>	<u>Jan. 2022</u>	<u>Feb. 2022</u>	<u>Mar. 2022</u>
<b>Res./Comm.</b>	62,100 gals.	56,850 gals.	54,200 gals.	41,550 gals.	47,200 gals.	53,300 gals.
<b>CH/Potter</b>	0.00 lbs./solids	0.00 lbs./solids	0.00 lbs./solids	0.00 lbs./solids	0.00 lbs./solids	0.00 lbs./solids
<b>Port Matilda</b>	1,100.88 lbs./solids	1,017.48 lbs./solids	1,334.40 lbs./solids	1,284.36 lbs./solids	1,317.72 lbs./solids	1,768.08 lbs./solids

<b>Huston Twp.</b>	517.08 lbs./solids	533.76 lbs./solids	433.68 lbs./solids	450.36 lbs./solids	300.24 lbs./solids	540.44 lbs./solids
<b>Total Flow</b>	84,100 gals.	76,850 gals.	82,000 gals.	64,550 gals.	69,200 gals.	79,300 gals.

**Plant Operation**

The treatment plant is operating well with no exceptions. The 12-month rolling average flow for March was 4.00mgd with the average for the month being 4.90mgd. The average monthly **influent** flow was 5.38mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

	<b>Mar. 2022</b>	<b>YTD</b>	<b>Plant Effl. Temp.</b>	<b>Wetland Effl. Temp.</b>
<b>Best Western</b>	36,000	90,000		
<b>Centre Hills</b>	0	0	<b>Mar -22</b>	<b>Mar. -22</b>
<b>Cintas</b>	521,000	1,521,000	54.1	53.6
<b>Red Line</b>	526,000	1,584,000		
<b>UAJA Wetland</b>	257,000	734,000		
<b>GDK Vault</b>	19,145,000	50,494,000		
<b>Elks</b>	0	0		
<b>Kissingers</b>	2,242,000	6,453,000		
<b>Stewarts/M.C.</b>	3,000	8,000		
<b>TOTAL</b>	<b>22,733,000</b>	<b>60,887,000</b>		

**Plant Maintenance**

- Replaced the actuator gearbox on Train 1 Zone 1 air valve.
- Replaced tires on the 2019 Ford and had 2006 Ford inspected.
- Installed pressure gauges on Carbon Pumps #2 and #4 discharge lines.
- Repaired a water line on Centrifuge #2.
- Replaced nozzle and filter for the space heater for the long belt.
- DuPont performed an audit on the M/Fs. Details to follow.
- Replaced a cracked spool on M/F #6.
- Rebuilt the rotating assembly on Booster Station Pump #2.
- Replaced several overload relays on the blowers in Compost.
- Replaced bearings on Odor Control fan #1.
- Replaced flame rod, spark plug, and fan coupling on MAU 1303 and the belts on MAU 1301.

**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:**

Scott Road force main project - Poured 300ft of sidewalk and 75ft of curb. Restoration 50% complete.  
 Lateral repairs – (4) 241 Beechnut, 156 Alder Ct, 1443 W. Park Hills, 105 W. Main St. Boalsburg.  
 Mainline repair – 1443 W. Park Hills.  
 Mainline televising – 25,623 ft televised – 206 manholes inspected.

Mainline cleaning – 15,224 ft cleaned – 73 manholes inspected.  
 Equipment maintenance.

**Lift Station Maintenance:**

Replaced a E-One pump at 619 Rosslyn Rd.  
 Cleaned and inspected check valves at all pump stations.  
 Cleaned (10) wet wells.

**Next Month Projects:**

Complete restoration on the Scott Road upgrade project.  
 Start the North Oak Lane mainline replacement project.  
 Lateral and mainline repairs for TWP. paving projects.  
 Wet well and mainline cleaning.

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

**Mainline Construction:**

- a. Aspen Heights Squirrel Drive – Construction is 10% complete.
- b. Grays Pointe ph. 6 Sec D.2 – Awaiting As-Builts.
- c. Meyer Dairy – Started Construction.

**New Connections:**

a. Single-Family Residential	15	c. Commercial	0
b. Multi-Family Residential	0	d. Non-Residential	0
<b>TOTAL</b>			<b>15</b>

PA One-Calls Responded to 3/1-31/22: 259

**6.6 Engineer’s Report**

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

**Retainer Services (R001178.0693)**

- The pump station capacity tables and the system map were prepared for the Chapter 94 Report.
- The annual storm water inspection and certification was completed.

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

- The Air Quality Operating Permit Application is being prepared.

**Proposed Air Quality Emissions Inventory and Operation Permit Schedule**

Milestone	Date
Complete and Submit Permit Application	April 2022
PA DEP Issues Permit (Includes 30 Day Public Comment Period)	July 2022

Based on DEP’s input and timeline for review.

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

- An additional alternative was developed for the alternate pump station location (Blueberry Crossing). An explanation for the Authority’s recommendation was included. The revised special study was

submitted to the CRPA.

**Proposed Meeks Lane Pump Station Project Implementation Schedule**

Milestone	Date
Submit Revised Special Study CRPA/Municipalities (60-day Review)	April 2022
Public Comment Period (30 Days)	Nov. 8 – Dec. 8
Presentation of Study at Municipal Meetings	May 2022
Start Design	May 2022
Receive Municipal/Planning Comments, Conclude Public Comment Period	June 2022
Adoption by Municipalities and CRCOG (General Forum Presentation)	June 2022
Submission of Special Study to PA DEP (120-day Review)	June 2022
DEP Approval of Special Study/WQM/NPDES	December 2022
Complete Design/BIDDING	December 2022
Begin Construction	January 2023
Project Completion (12 Months of Construction)** ,***	January 2024

\*Assumes DEP approval of Special Study and WQM Permit within 120 Days. Concurrent or sequential submission of Study and Permit Application.

\*\*Minimum construction period required for UAJA Construction Crew.

\*\*\*Material and equipment lead-times may dramatically extend the construction period.

**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 by the CRCOG.

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

- Progress Meeting No. 5 was held on April 13<sup>th</sup>.
- The General Contractor (Nastase Construction) has completed the installation of the wet well, two of three gravity sewer runs, and they are currently working to install the valve vault.
- Work is being completed by PennDOT immediate adjacent to the site. HRG has been coordinating with PennDOT to determine the extend of interference, if any.
- Contract 21-03 submitted Application for Payment No. 2 in the amount of \$142,200.00. Based on the contract requirements and the work completed, payment in the amount requested is recommended.

**Scott Road Pump Station Upgrade – Summary of Applications for Payment**

Contract No.	Application for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	Balance to Finish Plus Retainage
2021-03	2	\$142,200.00	\$476,703.00	\$271,000.00	\$205,703.00
2021-04	--	\$0.00	\$244,500.00	\$31,702.50	\$215,967.75

- Contract 21-03 and Contract 21-04 have both submitted no cost, time extension change order requests. Additional details have been requested since the requests did not clearly identify the amount of time. The requests specifically reference labor and material shortages.

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

- Fiber optic conduit drawings were prepared for the second alignment (Trout Road to Hartman Farm Lane to Short Lane, near SR 0026) in June 2021. These drawings were reviewed by the Authority’s staff. HRG can proceed with the preparation of the permit applications when authorized by the UAJA.

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

- The project has been paused until an easement can be negotiated.

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

- The stream crossing permit has been submitted and is pending review.

**Rate Study and Tapping Fee Update – (R001178.0703)**

- HRG worked with the Authority staff to provide responses to the Borough’s comments.

**Developer Plan Reviews**

- Evergreen Heights – Phase 1 (R001178.0711): Design drawings were returned on March 31, 2022, due to a rejected alignment.

**6.7 Construction Report**

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

- Continuous in-stream monitoring of Spring Creek has resumed. This monitoring is being conducted 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. We plan to provide an update to the Board at the May meeting to summarize data collected thus far and initial findings.

**Phosphorus Study Project Schedule**

Milestone	Date
Complete Stream Monitoring	June/July 2022
Compile All Data	July 2022
Conduct High Temperature/Low Flow Monitoring if needed	August/September 2022

**Ozone Disinfection for Effluent (094612023)**

- Job Conference No. 02 was held, and meeting minutes were provided via separate cover.
- Continuation of submittal submission/reviews.
- General Contractor anticipates site work to begin mid-April.
- Application for Payment No. 01 has been received from Contract 2021-07 (McClure Company) in the amount of \$3,915.00. We recommend payment in the amount of \$3,915.00.

**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
2021-05 GC			\$5,448,000.00		0.00%	\$5,448,000.00
2021-06 EC			\$350,000.00		0.00%	\$350,000.00
2021-07 MC	1	\$3,915.00	\$223,000.00	\$4,350.00	1.95%	\$218,650.00
		\$3,915.00	\$6,021,000.00	\$4,350.00	0.07%	\$6,016,650.00

**Ozone Disinfection for Effluent Project Schedule**

Milestone	Date
Notice to Proceed Issued	12/27/2021
Substantial Completion	03/27/2023

**Anaerobic Digestion Project (094612026)**

- Both the Act 537 Special Study for Biosolids and the Water Quality Management Part II Permit have



been approved by the PA DEP.

- Recent inspections of the existing Compost Building roof by Marcon and our structural engineers have uncovered significant deterioration of the roof structure and possible corrosion of the roof purlins. Our initial design intent was to preserve this building to house the future sludge dryers and food waste receiving. However, based on the structural findings and to ensure long-term project success, we recommend the Authority consider demolition of the Compost Building and replace with two separate smaller buildings: one for the dryers and a second building to receive dewatered biosolids from the partnering municipalities and food waste. We will have a brief presentation for further discussion at the meeting.
- PA DEP has responded to the Request for Determination for Air Permitting to the PA DEP and has indicated that the project will not be exempt from Plan Approval. We will prepare and submit the appropriate forms to obtain this approval.
- With the recent Compost Building findings and recommendation for two new replacement buildings, RETTEW has updated the anticipated project schedule.

#### **Anaerobic Digestion Project Schedule**

<b>Milestone</b>	<b>Date</b>
Complete Bidding Documents/Advertise for Bids	July 2022
Award Construction Contracts	October 2022
Begin Construction	November 2022
Complete Construction	May 2025

#### **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**

The sheep should be in the UAJA solar fields with-in the next month and fencing will be installed soon.

### **7. Other Business**

None.

### **8. Executive Session**

Not needed.

### **9. Adjournment**

A motion was made by Mr. Nucciarone and second by Mr. Ebaugh to adjourn at 5:42 pm. The motion passed unanimously.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary