

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

**Regular Meeting – August 21, 2019**

**1. Call to Order**

Mr. Lapinski, Chairman, called the meeting to order at 4:00 p.m., Wednesday, August 21, 2019. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Bridger, Dietz, Daubert, Ebaugh, Guss, Lapinski, McShea and Nucciarone; Cory Miller, Executive Director; Dave Smith, Assistant Executive Director; Mark Harter, Collection System Superintendent; Art Brant, Plant Superintendent; Jason Brown, Project Manager; David Gaines, Solicitors; Ben Burns, HRG; Jason Wert and Michele Aukerman, RETTEW; Jim May and Corey Rilk, CRPA; Deb Hoag, State College Borough; Kevin Mullen.

**2. Reading of the Minutes**

UAJA Regular Meeting – July 17, 2019

<b>UAJA Meeting Minutes Approved</b>
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A motion was made by Mr. Nucciarone, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on July 17, 2019 as submitted. The motion passed unanimously.

**3. Public Comment**

Mr. Mullen stated that he has been billed incorrectly and overcharged for the past 20 years. Mr. Mullen left two copies of the 4-page summary of the lawsuit he has filed against Cory Miller.

**4. Old Business**

**4.1 Greenbriar Project**

Mr. Dietz reported that UAJA's crew is doing an exceptional job.

**5. New Business**

**5.1 Standard Specifications – Easement Width**

For nearly 30 years, UAJA has used 20 feet as the standard easement width. Most of the time, this is sufficient width for maintaining the sewer lines, including potentially excavating to replace. However, depending on the depth, it may be insufficient. In more recent years, developers are crowding buildings on both sides of sewer easements, which may make future maintenance difficult.

To allow UAJA additional width, an amendment to the standard specifications section 00-70-00 has been prepared and is included in the agenda report. The proposed amendment includes the following table:

Trench Depth	Sanitary Sewer Diameter/Easement Width			
	8"- 12"	15"- 18"	21"- 27"	30"- 36"
0-6	20	20	25	25
6-8	20	20	25	25
8-10	20	25	25	25
10-12	20	25	25	30

12-14	30	30	30	35
14-16	30	35	35	40
16-18	30	35	40	40
18-20	40	40	45	45

**Standard Specifications  
Easement Width  
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Bridger, to adopt the amendment to the standard specifications. The motion passed unanimously.

### 5.2 Standard Specifications – Remove Concrete Encasement Add Minimum Separation

This proposed amendment is for sanitary sewer line separation. Currently there is a requirement for concrete encasement. In the UAJA service area, this more often results in breaking the sewer line from subsidence, rather than protecting the sewer line. It is to be replaced with minimum separation requirements in section 33-31-00 1.04 E:

Where a sewer line crosses over or under another pipe, provide a minimum separation of eighteen (18) inches for pressurized lines and twelve (12) inches for gravity conveyance lines.

**Standard Specifications  
Remove Concrete  
Encasement Add Minimum  
Separation  
Sanitary Sewer Line  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Nucciarone, to adopt the amendment to the standard specifications. The motion passed unanimously.

### 5.3 Standard Specifications – Remove Concrete Encasement Add Minimum Separation

This proposed amendment is for reclaimed water line separation. It is an addition to section 33-11-00:

Where a reclaimed waterline crosses over or under another pipe, provide a minimum separation of eighteen (18) inches for pressurized lines and twelve (12) inches for gravity conveyance lines.

**Standard Specifications  
Remove Concrete  
Encasement Add Minimum  
Separation  
Reclaimed Water Line  
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Daubert, to adopt the amendment to the standard specifications. The motion passed unanimously.

### 5.4 Change Order #4, HRI – ENR/AWT General

This Change Order entails:

- Work Change Directive #9 – Add 1 isolation valve in AWT compressor room.
- Work Change Directive #11 – Repair leaks in walls of tertiary filter gallery.
- Eliminate DO probe from scope of work.

This results in a net increase to Contract 17-06 in the amount of \$11,017.80

**Change Order #4  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Nucciarone, to approve Change Order # 4. The motion passed unanimously.

**5.5 Requisitions**

Construction Fund #150	HRI ENR/AWT Pay App #15	\$364,310.23
Construction Fund #151	Global Heavy Corporation Odor Control Pay App #10	\$961,970.00
Construction Fund #152	HRG Harris Reuse Engineering	\$741.50
Construction Fund #153	HRG Odor Control Engineering	\$10,786.32
Construction Fund #154	Rettew ENR/AWT SCADA	\$14,817.90
Construction Fund #155	Rettew Outfall Cascade Engineering	\$1,376.50

**TOTAL CONSTRUCTION FUND \$1,354,002.45**

**Requisitions  
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Guss, to approve the Construction Fund #150-155. The motion passed unanimously.

BRIF #366	CNH Industrial Retail Accounts Final Pym Mini-Excavator	\$32,496.26
BRIF #367	HRG Greenbriar Engineering	\$167.00
BRIF #368	HRG Shiloh P.S. Replacement Eng.	\$9,487.50
BRIF #369	Gannett Fleming, Inc. GIS	\$445.84

**TOTAL BRIF \$42,596.60**

**Requisitions  
Approved**

A motion was made by Mr. Dietz, seconded by Mr. McShea, to approve the Bond Redemption and Improvement Fund #366-369. The motion passed unanimously.



### 6.5 Plant Superintendent's Report

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

#### Plant Operation

The treatment plant is operating well with no exceptions for the month of July 2019. The 12-month rolling average flow for July was 5.30mgd with the average for the month being 3.14mgd. The average monthly **influent** flow was 4.94mgd.

Treatment units on line are as follows: primary clarifiers #1, #5 and #6; aeration basins #1 and #3; secondary; clarifiers' #2, #3 and #4; six of eight tertiary filters are on line.

Below is the chart for Reuse Distribution and Temperature Data:

	July-19	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	36,000	192,000		
Centre Hills	6,097,000	14,054,000	July-19	July-19
Cintas	663,000	4,491,000	70.3	70.5
Red Line	283,000	2,944,000		
Uaja Wetland	972,000	24,053,000		
Wetland Vault	17,074,000	107,703,000		
Kissingers	2,067,310	9,894,310		
Stewarts/M.C.	49,100	98,100		
<b>TOTAL</b>	<b>27,216,000</b>	<b>163,429,410</b>		

#### Plant Maintenance

- Received training and rebuilt several Landia Mixers.
- Replaced diaphragm on Primary Pump #11 and the check balls on Primary Pump #12.
- Rotating Secondary Clarifiers for service.
- Rebuilt utility water pump motor #1.
- Replaced several Landia Mixers.
- Replaced cutting edges on both loaders at Compost.
- Hauled chips as needed for Compost.
- Replaced VFD for the Centrifuge Feed Pump.
- Replaced VFD for Primary Transfer Pump #2.
- Did a CIP on RO #1.
- Repaired broken CIP line for the MF's.

### 6.6 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:

- Mainline Televising – (2,007 ft' televised) – (14) manholes inspected.
- Manhole Repairs – (11) PVC lining (Greenbriar, Willowbrook, Laurel Hills, Research Drive).
- Casting Repairs – (14).
- Mainline cleaning – (298 ft) – (2) manholes inspected.
- New Construction – Greenbriar – Installed 1,504 ft of mainline – 259 ft of lateral – (2) Air release – (2) Flush ports.
- Monitoring flow meters on Westerly Parkway Interceptor.

**Lift Station Maintenance:**

- Cleaned (2) lift station wet wells.
- Replaced float at Graysdale 2A station.
- Replaced bubbler pump at Shiloh station.
- Routine maintenance.

**NEXT MONTH PROJECTS:**

- Continue Greenbriar project.
- Flushing and televising of mainlines in service area.
- Cleaning Wet Wells.
- Lateral repair at 144 W. Pine Grove Rd.
- Repair castings for TWP. projects.

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

Mainline Construction:

- a. Centre Care – (95%) Complete.
- b. The Cottages at State College – (65%) Complete.
- c. Grays Woods Section A Phase 6 – Reviewing As-Builts.
- d. Oak Ridge Ave. – (90%) Complete.
- e. Village of PSU phase 9&10 – Started construction.

New Connections:

a.	Single-Family Residential	12	c.	Commercial	1
b.	Multi-Family Residential	0	d.	Non-Residential	0

**TOTAL      13**

PA One-Calls Responded to 7/1-31/19: 496

**6.7 Engineer's Report**

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

**Retainer**

- Collaborating with Rettew and staff to monitor flow and temperature at the Gordon D. Kissinger Meadow.
- Developed revisions to the standard specifications for:
  - width of right-of-way near buildings and for deep excavations
  - utility crossing clearances

**Odor Control System Upgrades**

Contract Times								
Contract No.	Notice to Proceed	Contract Time	Substantial Completion Date	Days Used*	Days Remaining	Final Completion	Percent of Time Remaining	Time Used
17-03	9/4/2018	320	7/21/2019	351	-31	9/4/2019	0%	100%
17-04	9/4/2018	320	7/21/2019	351	-31	9/4/2019	0%	100%

\*As of date of board meeting (8/21/2019).

- Shop drawings are being processed and reviewed.

- Concrete work is nearly complete. The Contractor is finishing the roof slab on the exhaust plenum. Media has been placed in Cell #1 and Cell #2.
- The Howard Company (Contract No. 17-04) has returned to the site full time.
- Progress Meeting No. 11 was held on August 7, 2019. Minutes have been prepared.

Applications for Payment						
Contract No.	Application for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	% Monetary Complete	Balance to Finish
17-03	10	\$961,970.00	\$8,358,000.00	\$6,881,550.00	82.3	\$1,820,527.50
17-04	N/A	\$0.00	\$587,890.00	\$239,314.71	40.7	\$372,506.76

**Greenbriar Sanitary Sewer Design**

- HRG is assisting with construction phase services as needed.

**Shiloh Road Pump Station Upgrades**

- Station upgrade design drawings have been prepared and were reviewed with staff.
- Field data of the downstream gravity conveyance system has been collected and is being evaluated for available capacity.
- Two copies of the permit drawing set will be sent to College Township to satisfy the requirements of its local ordinance in consideration of protection to the public water supply system.
- The Sewage Facilities Planning Module and the Water Quality Management Permit have been prepared and will be submitted after the evaluation of the gravity collection system is completed.

**Extension of Beneficial Reuse Water to Harris Township (1178.0637)**

- Easements are being coordinated with the Authority’s solicitor. HRG is attending on-site meetings as necessary to discuss right-of-way questions.
- Comments were received from the PA DEP on the Joint Permit Application and the NDPES Permit Application. A comment response letter has been prepared and submitted.

**Scott Road Pump Station and Bristol Interceptor – Act 537 Plan Special Study**

- The Bristol Interceptor and other parts of the downstream conveyance system have been televised by the UAJA collection system staff. Flow meters have been installed and data is being collected.
- Work is progressing to complete the special study.

**Meeks Lane Pump Station – Act 537 Plan Special Study (1178.0663)**

- The Meeks Lane Pump Station task activity report and scope of study will be placed on the COG Public Services and Environmental Committee agenda for final action at the September 5, 2019 meeting.
- An engineering services proposal to complete the study has been prepared

- and was submitted to staff.
- The developer's engineer has made no submissions for the Pine Hall Traditional Town Development following the meeting with Staff on October 9, 2018 (1178.0652).
- The Developer's design drawings for the Dreibelbis St. Hotel (2019 revision) were reviewed and recommended to Staff (and approved at the 7/17 Board mtg) on July 15, 2019 (1178.0633).
- The Developer's as built drawings for the Gray's Point Ph.6 Section A were reviewed and recommended to Staff for Board approval on July 29, 2019 (1178.0665).

## 6.8 Construction Report

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

### General Services Items Completed for the Authority:

#### *Pump Station SCADA Integration*

- We are integrating eight existing and new collection system pump stations and the Mountain Tank into the WWTP SCADA network for monitoring of the sites and improvements to the communication network.

#### *GDK Wetlands SCADA Integration*

- In coordination with HRG and the Authority, RETTEW is constructing the required instrumentation improvements for the GDK Wetland monitoring that was added in the recent NPDES permit issuance. Consisting of flowmeter data recording and online temperature instrumentation, these data points will be relayed to the Plant for recordkeeping and monitoring.

#### *WWTP NPDES Permit – Phosphorus Study*

- RETTEW is working on a plan of study for the upcoming Phosphorus Study for Authority review and coordination prior to submission to the PA DEP.

#### *Nutrient Credit Offsets – Solar Installation*

- RETTEW has completed an analysis of the generation of offsets related to Nitrous Oxide emissions related to the Solar Projects and it is attached for information.

### ENR/AWT Upgrade Project

- Project has reached Substantial Completion and a walk-through inspection was completed June 25<sup>th</sup> for all three Contracts. RETTEW is pursuing the Contractors to complete the remaining punchlist items and warranty issues.
- Contract UAJA 2017-06 (HRI) has submitted Application for Payment No. 15 in the amount of \$364,310.23. RETTEW has reviewed the payment application and discussed with Authority Staff. We may not recommend full payment based upon progress of some items and will update at the Board meeting.
- Contract UAJA 2017-07 (Myco) no application has been submitted this month. Final application upon punchlist completion is expected for the September



- meeting.
- Contract UAJA 2017-08 (Biter) no application has been submitted this month. Final application upon punchlist completion is expected for the September meeting.

#### Outfall Project

- UAJA 2017-06 has completed the majority of the work and the system is fully operational. The relocation of the DO probe and the fence completion are outstanding work items.

#### Solar System (Phase I)

- RETTEW has developed a draft layout for the Phase II Solar and work has begun on all facets of the permitting and approval process.

### 6.9 Executive Director's Report

The following comments are as presented to the Board in the written report prepared by Cory Miller, Executive Director.

#### **Solar Nitrogen Offsets**

RETTEW has complete an analysis for the creation of nitrogen offsets at the wastewater facility related to the installation of solar arrays for Phase I and Phase II. RETTEW estimates that approximately 8,000 lbs of Nitrogen Offsets can be credited to the Authority for the reduction in Nitrous Oxide emissions from reducing Authority usage of grid based fossil fuels. This will decrease over time due to degradation of the solar panels, but could result in 200,000 + lbs of Nitrogen reduction over the life of the arrays. The Authority has reviewed the document and RETTEW submitted it for PA Department of Environmental Protection review and approval.

### 7. Other Business

#### 7.1 Executive Session

**Executive Session  
Approved**

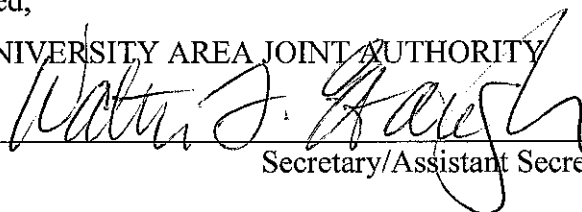
A motion was made by Mr. McShea, seconded by Mr. Guss, to adjourn to an executive session at 4:55 p.m. The motion passed unanimously.

### 8. Adjournment

The meeting was adjourned at 5:30 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

  
Secretary/Assistant Secretary