

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

Regular Meeting – March 20, 2019

1. Call to Order

Mr. Dempsey, Vice-Chairman, called the meeting at 4:00 p.m., Wednesday, March 20, 2019. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Bridger, Daubert, Dempsey, Derr, Deitz, Ebaugh, 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, Solicitor; Ben Burns and Jeff Garrigan, Consulting Engineers; Jason Wert and Michele Aukerman, RETTEW; Jim May, CRPA; Amy Kerner, State College Borough; Brian Heiser, State College Borough Water Authority; Ford Stryker, Tom Songer, Devon Warner, Ellen Kline, Chris Turley and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

UAJA Regular Meeting – February 20, 2019 and the continuance of the meeting held on February 21, 2019.

UAJA
Meeting Minutes
Approved

A motion was made by Mr. McShea, seconded by Mr. Bridger, to approve the minutes of the UAJA meeting held on February 20 with the continuance of the meeting held on February 21, 2019 as submitted. The motion passed unanimously.

3. Executive Session

Executive Session
Approved

A motion was made by Mr. McShea, seconded by Mr. Ebaugh, to adjourn to an executive session at 4:01 p.m. The motion passed unanimously.

Adjournment of
Executive Session
Approved

A motion was made by Mr. Nucciarone, seconded by Mr. McShea, to adjourn the executive session and resume the regular meeting at 4:26 p.m. The motion passed unanimously.

4. Public Comment

None

5. Old Business

5.1 Springfield Commons Billing and Sewer Service to Duplexes

The Board continued, from last month, the discussion concerning the violation of UAJA policies and specifications and a Harris Township Ordinance by the developers of Springfield Commons. The draft agreement submitted by the developer's attorney was included in the agenda report.

Mr. Turley stated that the duplex was built with Berks Homes and visually inspected by UAJA. No one from UAJA inquired at the time of permitting if the building was owner occupied or rental.

Language has been added to the deed to meet UAJA's request.

Mr. McShea indicated that the Board was just made aware of the Harris Township Ordinance and that the Board is working to try to get the issue resolved for all parties.

Mr. Dietz indicated that a one-time variance fee could be charged for changing the subdivision from a condo to a fee simple.

**Recommendation for
Spring Commons
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to have UAJA staff and legal counsel to work with the Springfield Commons party and Harris Township to resolve the lateral issue so that UAJA is not in violation with the Township's ordinances. The motion passed unanimously.

6. New Business

6.1 G. D. Kissinger Meadow NPDES Draft Permit

DEP has issued a new draft permit. The permit, fact sheet, and comment response document are included in the agenda report. The biggest change from the last draft is that instead of UAJA being required to conduct a 316(a) study, DEP will be conducting a study of Slab Cabin Run. There are no temperature limits in the permit, only monitoring requirements.

Staff is still reviewing the permit and will likely have a more complete list of findings at the meeting. Here are a few highlights from the review to date:

- Current limit of 3.0 MGD appears to be reduced by applying a flow limit of 1.05 MGD to each of the stream augmentation sites.
- Imposes a new limit under "Other Requirements" that the discharge shall not cause a change in the stream temperature of more than 2 degrees during any hour.
- Requires flow and temperature monitoring at each stream augmentation site.

The deadline for submitting comments is April 15th.

6.2 Requisitions

Construction Fund #112	HRI ENR/AWT Gen. Pay App #10	\$963,511.84
Construction Fund #113	Biter Electrical Enterprises ENR/AWT Elec. Pay App #6	\$218,955.26
Construction Fund #114	Global Heavy Corporation Odor Control General Pay App #5	\$724,220.32
Construction Fund #115	Rettew Associates ENR/AWT SCADA	\$4,214.06

TOTAL CONSTRUCTION FUND

\$1,910,901.48

**Requisitions
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Derr, to approve the Construction Fund #112-115. The motion passed unanimously.

BRIF #341	Evoqua Water Technologies Memcor MF Membranes (90)	\$81,000.00
BRIF #342	Gannett Fleming GIS	\$720.20
BRIF #343	Wayne Township Landfill Disposal of Sludge	\$69,526.89

TOTAL BRIF

\$151,247.09

**Requisitions
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Daubert, to approve the Bond Redemption and Improvement Fund #341-343. The motion passed unanimously.

Revenue Fund #161	Debt Service, Operating and Maintenance Expenses	\$1,000,000
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TOTAL REVENUE

\$1,000,000

**Requisition
Approved**

A motion was made by Mr. McShea, seconded by Mr. Nucciarone, to approve the Revenue Fund #161. The motion passed unanimously.

7. Reports of Officers

7.1 SCBWA Liaison

Mr. Heiser, Executive Director of SCBWA, reported that they are moving forward with the Nixon/Kocher filter plant. All variances have been approved and permits from Ferguson Township and DEP have been secured and ready to submit the land development. Groundbreaking on this project should begin late 2019 or early 2020. The plant on Woodside Drive has been piloted for upgrading since the age is more than 20 years. The SCBWA will be doing a directional bore waterline under Spring Creek along Boalsburg Pike in Harris Township. This will be the first project that SCBWA has done directional bore.

7.2 Financial Report

Mr. Smith reviewed with the Board the different cost centers of the YTD budget report for the period ending February 28, 2019.

7.3 Chairman's Report

No report.

7.4 Compost & Septage Operations Report

The following comments are as presented to the Board in the written report prepared by Jason Brown, Project Manager.

COMPOST PRODUCTION AND DISTRIBUTION

	<u>Sep. 2018</u>	<u>Oct. 2018</u>	<u>Nov. 2018</u>	<u>Dec. 2018</u>	<u>Jan. 2019</u>	<u>Feb. 2019</u>
Production	775 cu/yds.	870 cu/yds.	851 cu/yds.	815 cu/yds.	790 cu/yds.	0 cu/yds.
YTD. Production	7,928 cu/yds.	8,798 cu/yds.	9,649 cu/yds.	10,464 cu/yds.	790 cu/yds.	790 cu/yds.
Distribution	740 cu/yds.	2,006 cu/yds.	517 cu/yds.	438 cu/yds.	4 cu/yds.	1 cu/yds.
YTD. Distribution	8,922 cu/yds.	10,928 cu/yds.	11,445 cu/yds.	11,883 cu/yds.	4 cu/yds.	5 cu/yds.
Immediate Sale	2,318 cu/yds.	1,183 cu/yds.	1,611 cu/yds.	2,024 cu/yds.	2,835 cu/yds.	3,624 cu/yds.
Currently in Storage	3,093 cu/yds.	2,053 cu/yds.	2,462 cu/yds.	2,839 cu/yds.	3,625 cu/yds.	3,624 cu/yds.

SEPTAGE OPERATIONS

	<u>Sep. 2018</u>	<u>Oct. 2018</u>	<u>Nov. 2018</u>	<u>Dec. 2018</u>	<u>Jan. 2019</u>	<u>Feb. 2019</u>
Res./Comm.	94,000 gals.	64,650 gals.	15,955 gals.	16,050 gals.	4,900 gals.	10,150 gals.
CH/Potter	1,680.51 lbs/solids	5,963.10 lbs/solids	5,475.21 lbs/solids	5,446.02 lbs/solids	8,035.59 lbs/solids	6,772.08 lbs/solids
Port Matilda	2,101.68 lbs/solids	1,267.68 lbs/solids	1,601.28 lbs/solids	1,301.04 lbs/solids	1,217.64 lbs/solids	1,384.44 lbs/solids
Huston Twp.	316.92 lbs/solids	567.12 lbs/solids	683.88 lbs/solids	500.40 lbs/solids	500.40 lbs/solids	517.08 lbs/solids
Total Flow	127,000 gals.	121,650 gals.	76,955 gals.	75,050 gals.	87,900 gals.	79,150 gals.

Mr. Brown stated that brush grinding should be started March 25, 2019.

7.5 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 exceptions to our TTS parameters due to the bypass for the month of February 2019. The 12-month rolling average flow for February was 5.32mgd with the average for the month being 5.55mgd. The average monthly **influent** flow was 7.07mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Feb-19	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	22,000	39,000		
Centre Hills	0	0	Feb-19	Feb-19
Cintas	588,000	1,271,000	52.9	50.9
Red Line	531,000	846,000		
Uaja Wetland	4,845,000	9,424,000		
Wetland Vault	15,136,000	35,222,000		
Kissingers	1,435,000	3,292,000		
Stewarts/M.C.	16,000	29,000		
TOTAL	22,573,000	50,123,000		

Plant Maintenance

- Sent motor out for repair for Non-potable pump #1. Had spun the bearings.
- Alternated Outfall UV channels to facilitate work being done by contractor.
- Rebuilt two Landia mixers.
- Contractor is in progress of pressure washing Compost interior to make repairs on the ceiling.
- Replaced roller assembly on the Trommel screen.
- Replaced belts and serviced gearboxes on Compost conveyors.
- Replaced motor bearings in Centrifuge #1.
- Made repairs to air diffuser system in WAS tank #2.
- Made communication repairs to the Booster Station equipment.
- Replaced AV5 valve and actuator on AV7 on #1 Microfilter.
- CIP on all three microfilters.

Mr. Brant thanked Jason Brown for his assistance at the last meeting and also the assistance his staff received from the Collection System staff.

Currently interviews are being conducted for three plant operator's positions that are open due to retirement, staff changing positions and also an employee that left for employment in another state.

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 – (3,560 ft' televised) – (26) manholes inspected. (Completed Big Hollow Interceptor).

Mainline Cleaning – (7,735 ft cleaned) – (41) manholes inspected.

Mainline Repairs – Started W. Hillside Dr. mainline and lateral replacement project (10% complete).

Mainline Repair – Repaired Mainline at Gill Field (Ferguson Twp. Sink Hole) College Ave.

New Lateral Installation – Sheetz Benner Pike.

Casting Repair – (1).

Lift Station Maintenance:

Cleaned (5) lift station wet wells.
Replaced off float at Graysdale and Haymarket stations.
Routine maintenance.
Installed pump 101 at Big Hollow station after being re-built.
ARC Flash training for pump station personnel.

NEXT MONTH PROJECTS:

Flushing and televising of mainlines in service area.
Cleaning Wet Wells.
Continue GIS work in service area.
Mainline and lateral replacement on W. Hillside Dr.

Inspection: Final As-Builts Approved: None

Mainline Construction:

- a. N. Atherton Street Project (Penn Dot) – (95%) Complete.
- b. Kaywood North – Started Construction – (95%) Complete.
- c. Helix Subdivision – Started Construction – (90%) Complete.
- d. Winfield Heights – Reviewing As- Built.
- e. The Cottages at State College – Started Construction – (2%) 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 2/1-28/19: 153

Mr. Harter stated that the w. Hillside Dr. project is approximately 70 % completed. A demonstration for the Greenbriar pump station will be held at 3:00 p.m. on March 21, 2019. The Kaywood station is up and running.

7.7 Engineer's Report

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

Retainer

- Collaborated with the UAJA pursuant to maintenance activities in the Compost Building.
- The redrafted Wetland/AWT NPDES Permit has been issued. HRG will review and provide comments.
- The Chapter 94 Report Map and Pump Station Tables are being prepared.
- Met with collection system staff and vendors to review new or alternate products (i.e. fittings, valves, etc.) for incorporation into future utility projects.

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	197	123	9/4/2019	61.5%	38.5%
17-04	9/4/2018	320	7/21/2019	197	123	9/4/2019	61.5%	38.5%

*As of date of board meeting.

- Shop drawings are being processed and reviewed.
- The base slab (exhaust plenum, biofilter cells, mechanical room) concrete pours have been completed. Wall rebar and forms are being constructed.
- The Electrical Contractor has installed conduits through existing areas. Additional work will progress with the General Contractor's construction and arrival of electrical equipment.
- Progress Meeting No. 6 was held on March 6, 2019. Minutes have been prepared.
- Contract No. 17-03: General Construction (Global Heavy Corp.) has submitted a Change Proposal Requesting an additional 54 days with zero cost change. The proposal will be denied.
- The following table summarizes applications for payment submitted for the Biological Odor Control Project. HRG has reviewed the applications for payment and recommends payment based on the work completed.

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	5	\$724,220.32	\$8,358,000.00	\$2,138,969.75	25.6	\$6,432,927.23
17-04	N/A	\$0.00	\$587,890.00	\$191,814.71	32.6	\$415,256.76

Greenbriar Sanitary Sewer Design

- The Chapter 102 PAG-02 NPDES General Permit coverage approval was issued.
- Ferguson Township Permits (Pave-Cut and Road Occupancy and Municipal Tree Work) are being coordinated.
- An application for a Water Quality Management Permit is pending review by the Department.
- Easements and grinder pump agreements are being coordinated with the Authority's solicitor.

Extension of Beneficial Reuse Water to Harris Township

- Easements are being coordinated with the Authority's solicitor.

- The Water Quality Management Permit was issued.
- The Division of NPDES Permitting Chief provided notification that he informed the Centre County Conservation district that new/replacement buffers were not necessary for this project because it is an allowable activity under 102.14(f).
- A tree replacement plan has been prepared for the PennDOT property. The plan was submitted to Harris Township and was found to be acceptable, contingent that UAJA implements an assessment and replacement program.

Shiloh Road Pump Station Upgrades

- Survey is being scheduled and existing and future flows are being developed in order to proceed with design calculations.

Developer Plan Reviews:

- 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).
- Shop drawings continue to be processed and reviewed for The Cottages by Toll Brothers (1178.0567).

7.8 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:

NPDES Permit

- We are preparing a plan of study for a forthcoming Phosphorus Study for the WWTP.

RO Membrane Replacement

- The DOW membranes for RO train #1 continue to operate well. We have assisted the Authority in soliciting pricing for a second set of matching membranes for installation in the second RO unit that will be provided as part of the ENR/AWT Upgrade Project.

Compost Building Ceiling Repairs

- FoamCoat should complete the repairs to the Compost Building's ceiling insulation this month.
Approximately 13,000 square feet of the insulation has been repaired.

ENR/AWT Upgrade Project

Contract Times								
Contract Number	Notice Proceed	Contract Time	Substantial Completion Date	Days Used	Days Remaining	Final Completion	Percent of Time Remaining	Time Used
2017-06	5/23/2018	365	5/23/2019	301	64	6/22/2019	18%	82%
2017-07	5/23/2018	365	5/23/2019	301	64	6/22/2019	18%	82%
2017-08	5/23/2018	365	5/23/2019	301	64	6/22/2019	18%	82%

- Shop drawings and RFIs continue to be processed and reviewed.
- Job Conference No. 9 was held Wednesday, February 27th, meeting minutes are attached.
- Contract UAJA 2017-06 (HRI) has submitted Application for Payment No. 10 in the amount of \$963,511.84. RETTEW has reviewed the payment application and recommends payment in the amount of \$963,511.84 to HRI for Contract UAJA 2017-06.
- Contract UAJA 2017-07 (Myco) no application has been submitted for this month.
- Contract UAJA 2017-08 (Biter) has submitted Application for Payment No. 6 in the amount of \$218,955.26. RETTEW has reviewed the payment application and recommends payment in the amount of \$218,955.26 to Bob Biter Electrical Enterprises for Contract UAJA 2017-08.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incl/CO	Total Work Completed to Date	% Monetarily Complete	Balance of Contract Amount incl/retainage
2017-06	10	\$963,511.84	\$8,415,622.06	\$5,356,607.88	63.65%	\$2,363,332.63
2017-07		\$0.00	\$39,900.00	\$25,164.20	63.07%	\$17,252.22
2017-08	6	\$218,955.26	\$1,102,442.66	\$472,907.68	42.90%	\$457,870.50
		\$1,182,467.10	\$9,557,964.72	\$5,854,679.76	61.25%	\$2,838,455.35

Outfall Project

- Final plans and specifications have been completed and the Authority can begin soliciting pricing.

7.9 Executive Director's Report

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

Draft NPDES Permit for G.D. Kissinger Meadow Issued

DEP has issued a new draft permit for the G.D. Kissinger Meadow stream augmentation site. UAJA had submitted comments in July 2018, and DEP has been considering those comments and the comments of others since that time. The draft permit does not impose temperature limits and does not require UAJA to conduct a 316(a) study. Instead, DEP will conduct a study of Slab Cabin Run.

2018 Sewer Flows

2018 was a very wet year, and, not surprisingly, UAJA had higher flows at the treatment plant. The average influent flow was 6.18 MGD, which, if the Beneficial Reuse system did not exist, would have resulted in a permit violation. The effluent flow was 5.19 MGD, which reflects 1 MGD of beneficial reuse and kept UAJA in compliance. Based on the 5.19 MGD effluent flow, the expansion of advanced water treatment to 2 MGD and the extension to Mountainview and Tussey are well timed.

8. Other Business

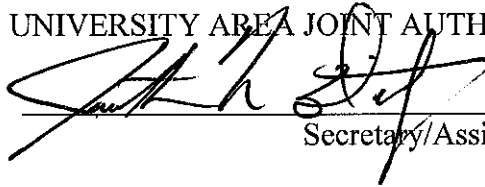
8.1 Executive Session – Not required.

9. Adjournment

The meeting was adjourned at 5:34 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary