

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – November 14, 2018

1. Call to Order

Mr. Lapinski, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, November 14, 2018. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Daubert, Dempsey, Dietz, 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; Jeff Garrigan and Ben Burns, Consulting Engineers; Jason Wert and Michele Aukerman, RETTEW; Brian Heiser, State College Borough Water Authority; Bernie Hoffnar, Liaison State College Borough Water Authority; Frank Pugliese; Greenbriar and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – October 17, 2018

UAJA Meeting Minutes Approved
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A motion was made by Mr. Daubert, seconded by Mr. Nucciarone, to approve the minutes of the UAJA meeting held on October 17, 2018. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1 Columbia Gas Easement

Columbia Gas intends to build a new transmission main to replace the main that is along Dreibelbis Street. The exiting transmission main cannot be upgraded, because it is too close to residential structures. Over a year ago, Columbia approached UAJA to ask for an easement to place the new transmission main on UAJA property along Trout Road. To accommodate the main, the house owned by UAJA that fronts on Trout Road (1315 Trout Rd) will be subdivided from the remainder of the UAJA property. The parcel containing the house will be 1.057 Acres. The subdivision plan and the gas transmission main easement were included in the meeting packet for the Board's review.

UAJA contracted for an appraisal for the easement, to compare to the appraisal obtained by Columbia. Columbia has agreed with the UAJA appraisal. If UAJA agrees to the easement, Columbia will demolish the barn along Trout Road as part of their project, and compensate UAJA \$81,000, which includes the value of the materials to be salvaged from the barn, and UAJA's cost of obtaining appraisals.

Right of Way Agreement Approved
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A motion was made by Mr. Daubert, seconded by Mr. Dempsey, to approve the right of way agreement and the supplemental agreement between UAJA and Columbia Gas of Pennsylvania, Inc. The motion passed unanimously.

5. New Business

5.1 Final Design: Grays Woods Planned Community (Lots 46A & 46B)

Final design drawings for the Grays Woods Planned Community (Lots 46A & 46B) sewer extension (Patton Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 2 EDUs of churches. The review comments have been addressed.

**Final Design: Grays
Woods Planned
Community
(Lots 46A & 46B)
Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the Final Design: Grays Woods Planned Community (Lots 46A & 46B). The motion passed unanimously.

5.2 Final Design: Centre Care, Inc.

Final design drawings for the Centre Care, Inc. sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 88 EDUs for the personal care facility. The review comments have been addressed.

**Final Design: Centre
Care, Inc.
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Bridgers, to approve the Final Design: Centre Care, Inc. The motion passed unanimously.

5.3 Final Design: Oak Ridge Avenue (Lots 29 & 30)

Final design drawings for the Oak Ridge Avenue (Lots 29 & 30) sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 2 EDUs for a single-family home. The review comments have been addressed.

**Final Design: Oak
Ridge Avenue
(Lots 29 & 30)
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. McShea, to approve the Final Design: Final Design: Oak Ridge Avenue (Lots 29 & 30). The motion passed unanimously.

5.4 Final Effluent Ozone Disinfection

UAJA and RETTEW have been evaluating the possibility of switching from ultraviolet light disinfection to ozone disinfection since shortly after installing the ozone system in the advanced water treatment building. Ozone has several advantages over other disinfection methods, particularly in further reducing endocrine disrupting compounds and reducing electrical demand. A report was completed in July which describes the economics and is included in the agenda report.

In the long run, ozone is less expensive and uses less power, but, since the existing UV system is performing adequately, staff decided it would be better to wait until the UV system needed to be replaced. The system was installed with the 2005 plant upgrade.

Recently, a slightly used ozone system has become available which would meet UAJA’s needs. Assuming this system can be purchased at a significant discount over a new system, it might be close to the breakeven point to consider switching before the UV system has expired. With this possibility, staff decided it was time to brief the board on the ozone option.

The Board directed staff to get more information on the system for presentation at either the December or January and also to check with DEP to see what their thoughts are on an ozone system versus a UV for use as final disinfection.

5.5 Requisitions

Construction Fund #79	HRI ENR/AWT Pay App #6	\$626,544.56
Construction Fund #80	Biter Electrical ENR/AWT Pay App #2	\$64,779.31
Construction Fund #81	HRG Greenbriar Engineering	\$20,200.00
Construction Fund #82	HRG Odor Control Engineering	\$13,944.00
Construction Fund #83	HRG Harris Reuse Engineering	\$31,173.00
Construction Fund #84	Rettew Associates ENR/AWT SCADA	\$2,945.00
Construction Fund #85	Rettew Associates ENR/AWT Engineering	\$38,009.61
Construction Fund #86	The Howard Company Odor Control Elect Pay App #1	\$6,454.19
TOTAL CONSTRUCTION FUND		\$804,049.67

**Requisitions
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve the Construction Fund #79-86. The motion passed unanimously.

BRIF #328	Golden Equipment Co. TV Rig Upgrade	\$104,212.00
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TOTAL BRIF **\$104,212.00**

**Requisitions
Approved**

A motion was made by Mr. Nucciarone, seconded by Mr. Daubert, to approve the Bond Redemption and Improvement Fund #328. The motion passed unanimously.

6. Reports of Officers

6.1 SCBWA Liaison

Mr. Hoffner stated again that he would like to see the Authorities work together for the mutual benefit of both.

6.2 Financial Report

Mr. Smith reviewed with the Board the different cost centers of the YTD budget report for the period ending October 31, 2018.

6.3 Chairman’s Report

None.

6.4 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>May 2018</u>	<u>Jun. 2018</u>	<u>Jul. 2018</u>	<u>Aug. 2018</u>	<u>Sep. 2018</u>	<u>Oct. 2018</u>
Production	953 cu/yds.	860 cu/yds.	870 cu/yds.	875 cu/yds.	775 cu/yds.	870 cu/yds.
YTD. Production	4,548 cu/yds.	5,408 cu/yds.	6,278 cu/yds.	7,153 cu/yds.	7,928 cu/yds.	8,798 cu/yds.
Distribution	959 cu/yds.	939 cu/yds.	505 cu/yds.	968 cu/yds.	740 cu/yds.	2,006 cu/yds.
YTD. Distribution	5,770 cu/yds.	6,709 cu/yds.	7,214 cu/yds.	8,182 cu/yds.	8,922 cu/yds.	10,928 cu/yds.
Immediate Sale	1,829 cu/yds.	1,907 cu/yds.	2,309 cu/yds.	2,181 cu/yds.	2,318 cu/yds.	1,183 cu/yds.
Currently in Storage	2,782 cu/yds.	2,767 cu/yds.	3,179 cu/yds.	3,056 cu/yds.	3,093 cu/yds.	2,053 cu/yds.

SEPTAGE OPERATIONS

	<u>May 2018</u>	<u>Jun. 2018</u>	<u>Jul. 2018</u>	<u>Aug. 2018</u>	<u>Sep. 2018</u>	<u>Oct. 2018</u>
Res./Comm.	13,650 gals.	37,800 gals.	21,600 gals.	37,900 gals.	94,000 gals.	64,650 gals.
CH/Potter	6,624.46 lbs/solids	8,239.92 lbs/solids	4,119.96 lbs/solids	7,038.56 lbs/solids	1,680.51 lbs/solids	5,963.10 lbs/solids
Port Matilda	2,218.44 lbs/solids	1,467.84 lbs/solids	2,101.68 lbs/solids	1,134.24 lbs/solids	2,101.68 lbs/solids	1,267.68 lbs/solids
Huston Twp.	567.12 lbs/solids	567.12 lbs/solids	533.76 lbs/solids	617.16 lbs/solids	316.92 lbs/solids	567.12 lbs/solids
Total Flow	90,350 gals.	111,800 gals.	78,100 gals.	96,900 gals.	127,000 gals.	121,650 gals.

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 to our NPDES permits for the month of October 2018. The 12-month rolling average flow for October was 4.92mgd with the average for the month being 5.58mgd. The average monthly **influent** flow was 6.56mgd.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Oct-18	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	19,000	302,000		
Centre Hills	2,004,000	21,814,000	Oct-18	Oct-18
Cintas	688,000	6,351,000	67.3	64.9
Red Line	246,000	3,616,000		
Uaja Wetland	4,677,000	49,459,000		
Wetland Vault	15,628,000	164,648,000		
Kissingers	1,440,000	14,313,000		
Stewarts	1000	10,449		
TOTAL	26,552,069	235,810,449		

Plant Maintenance

- Changed out Aeration Tank Mixer NM503
- Checked and calibrated all Auma Valves on the aeration basins.
- Drained Aeration Tank #1 Zone 3B in advance of the upgrade work to be done.
- Replaced Singer valve on #2 non-potable water pump and put in service.
- Installed new water softener in Control building.
- Replaced several circuit boards in #2 VFD at the main Station.
- PBCI Allen was in to service MAU units at Compost.
- Replaced motor on Compost Agitator #2 at Compost.
- Worked on Compost lighting.
- Cleaned Primary Tank #5 at D/W. Several dumpsters were filled.
- Replaced spool on #3 M/F.

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 – (673’ televised) – (3) manholes inspected.
Mainline Cleaning – (11,103 ft cleaned) – (73) manholes inspected.
Casting Repairs – (19).
Brushing of Mainline R.O.W.
Assisted with Jet Truck at Dewatering.
Received Tv Rigg with Camera upgrade, Training Scheduled.

Lift Station Maintenance:

Cleaned (5) lift station wet wells.
Cleaned both sides of well at Big Hollow Station.
Oil changes and service completed on pumps and comminutors at all stations.

Installed Telemetry unit at Big Hollow station.

NEXT MONTH PROJECTS:

- Flushing mainlines in service area.
- Cleaning Wet Wells.
- Televise Big Hollow Interceptor.
- Brushing Interceptor R.O.W.
- Training on new TV Van upgrade.
- Equipment maintenance.

Inspection: Final As-Built Approved: None

Mainline Construction:

- a. N. Atherton Street Project (Penn Dot) – (95%) Complete.
- b. Kaywood North – Started Construction – (90%) Complete.
- c. Helix Subdivision – Started Construction – (55%) Complete.
- d. Winfield Heights – Started Construction – (95%) Complete.
- e. Canterbury Crossing phase 4&5 – Started Construction – (80%) Complete.

New Connections:

- | | | | |
|------------------------------|----|--------------------|---|
| a. Single-Family Residential | 11 | c. Commercial | 1 |
| b. Multi-Family Residential | 2 | d. Non-Residential | 0 |

TOTAL 14

PA One-Calls Responded to 10/1-31/18: 393

6.7 Engineer’s Report

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

Retainer

- Attended the November meeting of Public Services & Environmental Committee to hear discussions regarding the CRPA Draft Scope of the Centre Region Act 537 Plan Update.
- Collaborated with the UAJA pursuant to maintenance activities in the Compost Building. A Form 43 was completed and submitted.

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	71	249	9/4/2019	78%	22%
17-04	9/4/2018	320	7/21/2019	71	249	9/4/2019	78%	22%

*As of date of board meeting.

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	-	-	\$8,358,000.00	\$180,000	2.15	\$8,196,000.00
17-04	1	\$6,454.19	\$587,890.00	\$7,171.32	1.22	\$581,435.81

- Shop drawings are being processed and reviewed.
- The revised cast-in-place vessel design was reviewed were provided.
- Progress Meeting No. 2 was held on November 7, 2018. Minutes are attached.
- The Electrical Contractor intends to start on-site work on November 12th. The General Contractor intends to start on-site work on November 19th with the removal of the media from the existing biofilter.
- An odor minimization strategy during construction was developed and submitted to the PA DEP, Bureau of Air Quality, as requested.

Greenbriar Sanitary Sewer Design

- The Sewage Facilities Application Mailer (request for exemption) and an Application for NPDES Permit for Stormwater Discharges Associated with Construction Activities have been prepared and will be submitted.
- A Pave-Cut and Road Occupancy Permit Application has been prepared for Ferguson Township. A meeting was held on November 6th in conjunction with Columbia Gas to coordinate facility locations and discuss permitting requirements.
- A Tree Permit will be required for trees within the Township right-of-way that will be impacted by the sanitary sewer construction.

Extension of Beneficial Reuse Water to Harris Township

- Drawings were revised to illustrate an alternate alignment through the Aikens property, which follows an existing AT&T easement. The route affects wetlands; however, fewer trees will be impacted and the UAJA Construction Crew believes this route will be easier to construct.
- Communications are ongoing with PennDOT to acquire a formal license to install the permanent facilities. It appears that dead tree removal can be completed in lieu of a continuing license fee.
- Environmental permit applications have been prepared and will be coordinated for submission once final wetland delineation points are captured and incorporated.
- A riparian forest buffer mitigation plan was developed and reviewed with representatives of Mountain View. Mountain View, via Sweetland Engineering, has stated that they are ready to provide a letter of support for the riparian forest buffer enhancement. A sample letter was provided for their use.
- Coordination with Harris Township is ongoing regarding the removal of buffer trees along Spring Creek. Harris Township has requested a formal plan to replace all of the trees that are removed.

Developer Plan Reviews:

- Three (3) Developer Plan submissions have been active since the last report.
- The design plans for Grace Hills Church (Gray's Woods Lots 46A & 46B) were reviewed and recommended to Staff for Approval on October 23, 2018 (1178.0651).
- The design plans for Oak Ridge Avenue – Lots 29 and 30 were reviewed and recommended to Staff for Approval on October 29, 2018 (1178.0653).

- Revised design plans for Gray’s Woods Planned Community Phase 6, Section A were reviewed and were returned to the Developer for additional corrections on November 4, 2018 (1178.0650).
- 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 are being processed and reviewed for The Cottages by Toll Brothers (1178.0567).

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:

NPDES Permit

- RETTEW submitted the Final NPDES Permit Application on November 22, 2017. We await the review of the document by the PA Department of Environmental Protection (DEP).

RO Membrane Replacement

- DOW (Light Environmental Inc. and Avista Technologies, Inc.) began replacement of the membranes Monday, November 5th and continued on November 6th. Expected startup and recommissioning is slated for AM on November 7th.

ENR/AWT Upgrade Project (094612009)

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	175	190	6/22/2019	52%	48%
2017-07	5/23/2018	365	5/23/2019	175	190	6/22/2019	52%	48%
2017-08	5/23/2018	365	5/23/2019	175	190	6/22/2019	52%	48%

- Shop drawings and RFIs continue to be processed and reviewed.
- Job Conference No. 5 was held Wednesday, October 31st, meeting minutes are attached.
- Contract UAJA 2017-06 (HRI) has submitted Application for Payment No. 6 in the amount of \$626,544.56. RETTEW has reviewed the payment application and recommends payment in the amount of \$626,544.56 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. 2 in the amount of \$64,779.31. RETTEW has reviewed the payment application and recommends payment in the amount of \$64,779.31 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 incld/CO	Total Work Completed to Date	% Monetarily Complete	Balance of Contract Amount incld/retainage
2017-06	6	\$626,544.56	\$8,375,000.00	\$2,387,507.77	28.51%	\$6,226,243.01
2017-07		\$0.00	\$39,900.00	\$25,164.20	63.07%	\$17,252.22
2017-08	2	\$64,779.31	\$1,025,700.00	\$181,367.32	17.68%	\$862,469.42
		\$691,323.87	\$9,440,600.00	\$2,594,039.29	27.48%	\$7,105,964.65

Outfall Project (094612015)

- The Water Quality Management Part II Permit and a GP-11 General Permit (replacement of water obstruction) have been submitted to the PA DEP and are currently under review. RETTEW has addressed the minor erosion/sedimentation control comments on the GP-11 General Permit. We anticipate completion of the final plans and specifications in November and soliciting pricing at that time.

Update on Battery Energy Storage System

- Transformer and Switchgear have arrived and been installed in final configuration. Commissioning occurred on November 5th and 6th.
- All interconnection wiring, controls and telecommunications are in place, with final commissioning completed.
- First Energy/West Penn Power is slated to cut in site power on November 7th.
- Batteries arrive to site November 19th. Battery module installation should take 2 days after which battery commissioning will immediately commence.
- Viridity’s (Design Build Prime Contractor) goal is to be ready for grid testing and configuration by week of November 26th.

6.9 Executive Director’s Report

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

Testing

The results from the EDC-PPCP-UCMR analysis have been received and will be provided to the Board.

7. Other Business

No other business.

8. Adjournment

The meeting was adjourned at 4:54 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary