

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – January 20, 2016

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:05 p.m. Wednesday, January 20, 2016. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Lapinski, McShea, Nucciarone and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Mark Harter, Collection System Superintendent; Jason Brown, Project Manager; Doug Corman, Assistant Collection System Superintendent; David Gaines, Solicitor; Dave Swisher, Ben Burns and Tom Holleran, Consulting Engineers; Jason Wert, RETTEW; Wes Hall, PFM; Tom Smida and Bernadette Barattini, Mette, Evans & Woodside; Cristin Mitchell, Steve Balky, Laura Dininni and Kathy Wheeler, Recording Secretary.

2. 2016 Board Reorganization

Mr. Schmalz turned the meeting over to Mr. Miller to begin the election of officers.

Election of Officers

A motion was made by Mr. Lapinski, seconded by Mr. Nucciarone, to elect Mr. Schmalz as Chairman. The motion passed unanimously.

Mr. Miller turned the meeting back over to Mr. Schmalz for the remaining election of officers.

Election of Officers

A motion was made by Mr. Dietz, seconded by Mr. Lapinski, to re-elect all other officers to the same positions that they held in 2014 as follows: Mr. Lapinski – Vice-Chairman; Mr. McShea – Treasurer; Mr. Dempsey – Secretary; Mr. Guss – Assist. Treasurer; Mr. Dietz – Assist. Secretary. The motion passed unanimously.

**Staff and Advisors
Appointed**

A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to approve all staff and advisors as follows: Mr. Cory Miller, Executive Director; Miller, Kistler & Campbell, Solicitor; Herbert, Rowland and Grubic, Consulting Engineers; Mette, Evans & Woodside, Bond Council; Maher Duessel, Auditor; First National Bank, Depository General Fund and Payroll Fund; Pennsylvania Local Government Investment Trust, Depository Investment Fund; US Bank, Trustee. The motion passed unanimously.

3. Reading of the Minutes

3.1 UAJA Regular Meeting – December 16, 2015

**UAJA
Meeting Minutes
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Lapinski, to approve the minutes of the UAJA meeting held on December 16, 2015 as submitted. The motion passed unanimously.

4. Public Comment

None.

5. Old Business

5.1 Open Records Policy Schedule of Fees

Each year UAJA needs to adopt a schedule of fees associated with our Open Records Policy. This fee schedule is shown below (as a side note, this law does not allow for a retrieval fee):

1. Fees for the actual cost of mailing.
2. 25 cents per single-sided page for duplication.
3. Reasonable fees to cover other types of actual costs such as data conversion, electronic access, etc.

**Open Records Policy
Schedule of Fees
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve the Open records Policy Schedule of Fees as presented. The motion passed unanimously.

5.2 Meeting Dates for 2016

Proposed 2016 meeting dates are provided below. Staff will advertise upon approval.

February 17, 2016
March 16, 2016
April 20, 2016
May 18, 2016
June 15, 2016
July 20, 2016
August 17, 2016
September 21, 2016
October 19, 2016
November 16, 2016
December 21, 2016
January 17, 2017

**2016 Meeting Date
Schedule
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. McShea, to approve the meeting schedule for 2016 as presented. Motion passed unanimously.

5.3 Parameters Resolution for Refunding Series 2010A Bonds – Resolution 16-1

As discussed at the December 2015 meeting, the Series 2010A bonds are eligible for refunding. Based on current rates, it is likely that refunding will result in savings. The parameters resolution sets a minimum savings goal for the refunding. If the refunding will result in savings at least equal to the parameters in the resolution, staff and consultants are directed to refund the bonds.

**Resolution
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Dietz, to approve Resolution 16-1 The motion passed unanimously.

5.4 Odor Control Study Draft Report

As was discussed at the December meeting, the Odor Study Subcommittee requested an estimate of eliminating the composting operation for comparison purposes. Composting is replaced by lime stabilization and disposal at a landfill. The odors from the lime facility would be treated in the same system as the dewatering building. Because the airflow would increase, the capacity of the odor facility would need to be increased. The annual operating and maintenance cost of lime stabilization would be about \$30,000 per year more than the current composting system. A chemical scrubber would be the most suitable odor system for the combined dewatering – lime stabilization odors. This system would have a present value of \$4 million.

If composting is to continue the subcommittee recommends the concrete biofilter with engineered media. The biofilter is proposed to serve both the compost building and the dewatering building. It consists of multiple cells, so that periodically one cell can be taken out of service for maintenance while treatment continues in the remaining cells. This solution completely controls the moisture in the media, since the filter cells are covered. It is a downflow system, with one outlet stack. The preliminary estimate of construction cost is \$8,032,978 with a present value of \$10,191,724.

**Scope of Work
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to instruct staff to develop a scope of work for the design of the proposed concrete biofilter with engineered media. The motion passed unanimously.

6. New Business

6.1 Final Design: Stearns Crossing Phase 8

Final design drawings for the Stearns Crossing Phase 8 sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 25 EDUs of single family homes. The review comments have been addressed.

**Final Design: Stearns
Crossing Phase 8
Approved**

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the Final Design: Stearns Crossing Phase 8 to serve 25 EDU's of single family homes. The motion passed unanimously.

6.2 Final Design: Gates Phase 5

Final design drawings for the Gates Phase 5 sewer extension (Harris Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 27 EDUs of multi-family homes. The review comments have been addressed.

**Final Design: Gates
Phase 5
Approved**

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the Final Design: Gates Phase 5 to serve 27 EDU's of single family homes. The motion passed unanimously.

6.3 Solar Array and Battery Facility

At the December meeting the concept of a solar array and battery facility at UAJA was introduced. At the time of this agenda report, the proposed offering from the Renewable Energy Developer is not available, but will be emailed to the board members in advance of the meeting. The project would be for the construction of a 2.4MW Solar/PV Array and associated Form D Regulation Battery Storage Facility. The site would be approximately twelve acres.

As a not for profit institution, UAJA cannot receive any benefit from the tax incentive available to a private corporation. Thus, to reduce the cost of installing renewable energy, UAJA needs a private partnership. The concept of the venture is to provide approximately 24 percent of UAJA annual power needs from the solar array. The battery system will act as a power filter for UAJA, drastically reducing the frequency of equipment shut down from variability in the power.

The offering is being designed to match as closely as possible UAJA's current electric rate. After a period of at least 7 years but no more than 20 years, UAJA would fully own the system.

Mr. Dietz, Mr. Lapinski and Mr. Dempsey will work with staff and UAJA's attorney to prepare a recommendation to be acted upon at the February Board meeting.

6.2 Requisitions

BRIF #203	Allied Control Services, Inc. Payment #1 Centrifuge Control Upgrade	\$71,225.20
BRIF #204	Gayle Corporation Ghaner Pump Station Control Package	\$39,973.00
BRIF #205	HRG Odor Study and Report (Final payment)	\$1,328.50
BRIF #206	M&T Bank Liebherr Trac Loader Lease to Own (final payment)	\$75,995.76
BRIF #207	Dale Summit Acquisitions January 2016 Lease Payment	\$25,000.00

**Requisitions
Approved**

A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the BRIF Requisitions #203-207. The motion passed unanimously.

7. Reports of Officers

7.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending December 31, 2015.

7.2 Chairman's Report

None

7.3 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>Jul. 2015</u>	<u>Aug. 2015</u>	<u>Sep. 2015</u>	<u>Oct. 2015</u>	<u>Nov. 2015</u>	<u>Dec. 2015</u>
Production	719 cu/yds.	517 cu/yds.	646 cu/yds.	764 cu/yds.	898 cu/yds.	962 cu/yds.
YTD. Production	5,040 cu/yds.	5,557 cu/yds.	6,203 cu/yds.	6,967 cu/yds.	7,865 cu/yds.	8,827 cu/yds.
Distribution	1,222 cu/yds.	540 cu/yds.	707 cu/yds.	598 cu/yds.	844 cu/yds.	439 cu/yds.
YTD. Distribution	5,729 cu/yds.	6,269 cu/yds.	6,976 cu/yds.	7,574 cu/yds.	8,418 cu/yds.	8,857 cu/yds.
Immediate Sale	887 cu/yds.	1,066 cu/yds.	877 cu/yds.	925 cu/yds.	845 cu/yds.	1,304 cu/yds.
Currently in Storage	1,606 cu/yds.	1,583 cu/yds.	1,523 cu/yds.	1,689 cu/yds.	1,743 cu/yds.	2,266 cu/yds.

SEPTAGE OPERATIONS

	<u>Jul. 2015</u>	<u>Aug. 2015</u>	<u>Sep. 2015</u>	<u>Oct. 2015</u>	<u>Nov. 2015</u>	<u>Dec. 2015</u>
Res./Comm.	4,000 gals.	4,700 gals.	0 gals.	3,000 gals.	0 gals.	0 gals.
Hawbaker	147,000 gals.	110,000 gals.	0 gals.	162,500 gals.	0 gals.	0 gals.
CH/Potter	7,038.96 lbs/solids	3,035.76 lbs/solids	6,755.40 lbs/solids	4,716.27 lbs/solids	5,258.37 lbs/solids	7,447.62 lbs/solids
Port Matilda	1,684.68 lbs/solids	1,651.32 lbs/solids	1,367.76 lbs/solids	1,200.96 lbs/solids	1,217.64 lbs/solids	1,668.00 lbs/solids
Huston Twp.	633.84 lbs/solids	350.28 lbs/solids	583.80 lbs/solids	350.28 lbs/solids	400.32 lbs/solids	0 lbs/solids
Total Flow	228,000 gals.	154,200 gals.	70,000 gals.	222,500 gals.	62,500 gals.	72,500 gals.

7.4 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 no exceptions to our NPDES permit. The 12-month rolling average flow for December was 4.28mgd with the average for the month being 4.15mgd. The average monthly **influent** flow was 5.45mgd. There were no inspections by DEP.

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

Below is the chart for Reuse Distribution and Temperature Data:

	Dec-15	YTD	Plant Effl. Temp	Wetland Effl. Temp.
Best Western	28,000	430,000		
Centre Hills	0	45,593,000	Dec-15	Dec-15
Cintas	792,000	9,039,000	60.7	56.2
Red Line	201,000	3,369,000		
Uaja Wetland	2,841,000	46,030,000		
Wetland Vault	15,329,000	132,087,000		
Kissingers	1,196,000	11,725,000		
Stewarts	0	7,380		
TOTAL	16,802,000	248,280,380		

Plant Maintenance

- Replaced the motor on Effluent Drain Valve #5 in the Tert. Bldg.
- Cummins serviced the generators at the Treatment Plant and the Main Station.
- Replaced the diaphragm in Primary Pump #9.
- Repacked RAS Pump #4.
- Cleaned polymer lines from the tank to the pumps in D/W. This eliminated the constant fuse failures.
- The Reuse line inside the AWT burst and was repaired.
- Replace the water level sensors in the UV System in AWT.
- Replaced current sensors in the drive for AWT Feed Pump #1.
- PBCI Allen replaced the modulating gas valve in MAU-1305.
- Repaired outdoor lighting around the facility.
- Replaced the block heater hoses on the emergency generator at the Main Station.

7.5 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:

Mainline Cleaning – (46) manholes Inspected / (8,377) ft. of mainline cleaned.

Mainline Televising for 2016 Township Paving projects (4,047) ft.

Vehicle and small equipment maintenance.

Lift Station Maintenance:

Routine maintenance and general housekeeping was completed and all stations are reported to be operating normally.

Pump Station generators were serviced.

Repaired (2) E-One Pump Core.

Cleaned (11) pump station Wet Wells.

NEXT MONTH PROJECTS:

Cleaning of mainlines.

Equipment maintenance.

Brushing of mainline R.O.W.

Inspection: Final As-Builts Approved: The Gates phase 2

Mainline Construction:

- a. Fieldstone Phase 3 – construction is approximately 80% complete.
- b. North Atherton Place – construction is approximately 95% complete.

New Connections:

a.	Single-Family Residential	14	c.	Commercial	0
b.	Multi-Family Residential	0	d.	Non-Residential	0
					TOTAL 14

PA One-Calls Responded to 12/1-31/15: 190

Mr. Harter introduced Doug Corman as the new Assistant Collection System Superintendent. Two new employees have been hired, Morgan Miller and Troy Rimmey. Kerry Bartley and Daren Brown have moved up to the Crew Leader positions.

7.6 Engineer's Report

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

Retainer

- Obtained the 2015 new connection permit log to begin updating the pump station capacity spreadsheet for the 2015 Chapter 94 Report.

Odor Control Study

- The report has been prepared based on the findings of the study and recent discussions with the Board and the committee.
- The PWEA has accepted a two session abstract submitted jointly by HRG and Material Matters to be presented at the 2016 Penn TECH conference.

Odor Control System Upgrades

- Costs were developed for the construction and operation of a lime stabilization process to evaluate discontinuing the composting operation, which is a significant source of odors at the facility. A brief discussion will be provided at the meeting.

Standard Specifications and Details Update

- Draft specifications were delivered to and reviewed with the Authority. Comments have been incorporated and final draft technical specifications have been delivered to the Authority for distribution to Developers/Engineers.
- Suggested revisions to the policy on service to new developments have been submitted to the Authority for review. The policy has been separated from the technical specifications.

Act 57 Study

- Commenced preparation of an updated Act 57 study. Consultation with the Authority's solicitor will occur as appropriate. A draft report will be submitted by February 8th to allow for distribution of a final report to the Board for the February 17th meeting.

Big Hollow Force Main Evaluation

- KCF Tech is developing a report that will document the findings of the vibration analysis and provide recommendations.

Developer Plan Reviews:

- The new method of communicating with developer engineers via email with comments applied directly to the drawing PDFs is working well, according to all parties.
- One as-built and two design plan reviews were completed this past month (designs for Stearns Crossing Phase 8 and Gates Phase 5 are recommended for approval). One design plan review is in process (The Village at PSU, Phase 16).

7.7 Construction Report

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

OPERATIONS

- Provided troubleshooting assistance on Operation and Programming of the RO Unit.
- Coordinated the testing of the oil filled transformers on the site for preventative maintenance monitoring. The Dewatering Building Transformer showed some signs of arcing within the fluid (acetylene formation) and with some recent power spikes at that building, will be investigated further.

SCADA

- Coordination of Network Evaluation for SCADA System with Authority Staff and Applied Control Engineering, Inc. (ACE). Network evaluation to occur on January 20th and 21st with a report on the findings soon after for review.
- Corrected fault on RO Control System with Ozone Detector.
 - Developed new AWT Screen for review and approval.

DEWATERING PROJECT

- Allied was on-site during the week of January 4th and reviewed the installation and final coordination.

- RETTEW, Authority Staff and Allied reviewed a number of operational schemes and redundancy with Processors (PLCs).
- Allied will begin installation the week of January 25th and last two to three weeks.

NUTRIENTS

- Awaiting review comments from the PA DEP on the Stormwater Offsets Proposal from the Gordon D. Kissinger Meadow Project.

SOLAR ENERGY

- Nothing further was added.

7.8 Executive Director's Report

Grays Woods Pump Station Elimination

A new sewer line and pump station alignment that more closely meets the desires of Patton Township has been developed. The route will also cost significantly less than the original route proposed. The new route will be presented to Patton Township for their review and action at their next meeting.

Reuse Water

A request for reuse water from the Ramada (formally Elks Club) and Tussey Ski has been made. This is the opposite direction from the Act 537 Plan which goes up Slab Cabin. The Centre Region would have to direct UAJA to look at running the reuse water that direction.

There is no update from DEP on the classification of the reuse water.

8. Other Business

9. Adjournment

The meeting was adjourned at 5:50 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary