

**MINUTES**  
**UNIVERSITY AREA JOINT AUTHORITY**  
**1576 SPRING VALLEY ROAD**  
**STATE COLLEGE, PA 16801**  
**Regular Meeting – August 20, 2014**

**1. Call to Order**

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, August 20, 2014. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, Lapinski, McShea and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director, Dick Lahr, Collection System Superintendent; Art Brant, Plant Superintendent; Jason Brown, Project Manager; Richard Campbell, Solicitor; Doug Weikel, Ben Burns and Dave Swisher, Consulting Engineers; Eric Vorwald and Janet Sulzer, Centre Region; Scott Shearer, Public Financial Management; Lee Sheerin and Kathy Wheeler, Recording Secretary.

**2. Reading of the Minutes**

**2.1 UAJA Regular Meeting – July 16, 2014**

<b>UAJA Meeting Minutes Approved</b>
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A motion was made by Mr. Guss, seconded by Mr. Lapinski, to approve the minutes of the UAJA meeting held on July 16, 2014 as submitted. The motion passed unanimously.

**3. Public Comment**

Mr. Miller reviewed with the board a lateral installation project at 107 Harris Avenue in Boalsburg being done for Ms. Sheerin. This lot was subdivided from 709 Boalsburg Pike in 2002. An assessment was paid on the 709 Boalsburg Pike property but no assessment was paid for the new lot. At the time the permit for connection was issued, as-built drawings were pulled which showed a lateral to the 107 Harris Avenue lot. After Ms Sheerin's contractor dug where indicated by the drawings it was discovered that no lateral was there. Staff then compiled an estimate to install the lateral to inside the property line. Ms. Sheerin paid this lateral estimate and staff installed the lateral. A letter has been received from Ms. Sheerin requesting that the funds she paid for the lateral installation be refunded to her. Mr. Miller informed the Board that there have been other cases where drawings indicate a lateral that simply isn't there. University Area Joint Authority has split costs where these instances have occurred in the past. Mr. Miller indicated that staff installed the lateral at a cost of \$5,217.64. Ms. Sheerin has paid \$4,767.25 of these funds and has indicated that her contractor's costs for digging where no lateral existed based on information that was given by UAJA is an additional \$440.

<b>Lateral Installation Refund Approved</b>
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A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to refund Ms. Sheerin in the amount of \$3,000. This amount is the costs split by Ms. Sheerin and UAJA and rounded to the nearest thousand dollars. The motion passed unanimously.

**4. Old Business**

**4.1. Odor Management Study**

UAJA's consultants (HRG and Material Matters) have initiated the study. Plant tours have been conducted and sampling points have been identified. Staff has been introduced to Odor Track'r software and will be using it to monitor and characterize various odor events that are reported. A public meeting has been scheduled immediately after the 8/20/2014 UAJA Board meeting to engage the public, tour the facility, and explain how the public can assist in our odor control efforts. A press release announcing the meeting was published in the Centre Daily Times and over 350 letters were mailed to property owners surrounding the plant site.

**4.2 Solids Handling and AWT Upgrade Project**

A preconstruction conference with M2 Construction and Biter Electric was held on Monday August 18, 2014. Notice to proceed was issued at that time.

**4.3 Big Hollow Pump Station Project**

The Big Hollow Pump Station project is winding to a conclusion. The “cured in place” lining of the pipe under I99 has been completed. The contractor is finished his pipe work on the 36” force main during the week of 8/11. UAJA construction crews has begun their portion of the work starting 8/18. We hope to test the pumps and transfer flow to the 36” line during that week.

**5. New Business**

**5.1 Pennsylvania Energy Development Authority Grant**

Staff has prepared and submitted a grant application to install 250 kW of solar panels. The board was provided via email the feasibility study conducted by Rettew that details energy cost saving for the Authority if we are successful in our application. Rettew will be available and will explain the final grant budget and answer any questions on the application. As noted in the email correspondence sent to each board member, the project isn’t feasible without the full grant award

**Pennsylvania Energy  
Development Authority  
Grant  
Approved**

A motion was made by Mr. Dempsey seconded by Mr. Lapinski, to endorse the grant application as submitted. The motion passed unanimously.

**5.2 Sale Agreement – Phosphorus Credits**

As you are aware, UAJA creates Phosphorus credits throughout the year because of our unusually stringent local P limit. We are able to sell these credits to an entity that is unable to meet their P limit. Last year we sold them to Furmano Foods, who agreed to buy ALL the credits we made for \$1.75/credit. Furmano is again interested in ALL of our P credits. They have agreed to a sale price this year of \$2.00/credit.

**Sale Agreement –  
Phosphorus Credits  
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Dietz, to execute the sale agreement with Furmano Foods to sell our P credits for Water Year 2014. The motion passed unanimously.

**5.3 Mandatory Tender Date – Series 2011A Bonds (variable rate)**

Scott Shearer, PFM, discussed options with the Board to remarket or reissue these bonds into a new variable rate instrument based upon results of an RFP to has been floated. Subsequent steps will need to occur with the Board for a closing prior to November 3, 2014. Updated information will be presented at the September 17, 2014 meeting.

**5.4 Act 537 Plan Amendment**

As has been discussed at several previous board meetings, UAJA staff believes it is important for the Centre Region to undertake a revision to the Act 537 Plan. The Centre Region Planning Agency, in an email dated August 11, the CRPA Director Jim May indicated that CRPA does not see a need to update the Act 537 Plan at this time, or in the near term future. If the UAJA Board wishes to pursue this further, action needs to be taken by the board to send the request directly to COG for consideration by the municipalities. Below are the issues which UAJA staff believes

should be included in an update to the plan.

### **Beneficial Reuse**

The current Act 537 Plan indicates a “Phase III” extension of the beneficial reuse system to the recharge zone for the Harter-Thomas wellfields of the State College Borough Water Authority. As you are aware, this is in the Slab Cabin Run Basin, which has been designated a Class A Trout stream by the PA Fish and Boat Commission. Eventually, DEP will classify the stream as High Quality Cold Water Fishery. Before that happens, it would be wise for the region and UAJA to obtain all of the water quality management permits and NPDES permits required for any future stream augmentation sites. If these are obtained prior to the designation as HQ/CWF, they would be grandfathered and not subject to the anti-degradation requirements which eliminate stream augmentation as a beneficial use. To obtain water quality management permits, the Act 537 Plan must clearly describe the stream augmentation locations.

According to DEP, UAJA can only serve customers directly along the existing reuse water lines without requiring an amendment to the 537 Plan. The reason for this is that beneficial reuse lines are considered sewage facilities by DEP, and thus require Act 537 planning, and water quality management permits. Some customers, in particular industries that may wish to locate in the Centre Region, or those that are here that wish to use reuse water, cannot wait for a 537 Plan revision to be completed. Typically industries want to know that the water is available now, or in the very near future. As an example, if an industry was looking at the Corning site, which would require an extension of the reuse water line to get to the property, they would have to wait until the region updated the 537 plan, and then UAJA could obtain a water quality management permit, and then the line could be extended, for an elapsed time of more than a year and a half. If the region wishes to facilitate use of reuse water for economic benefit, reuse areas with prospective delivery options will need to be detailed in the Act 537 Plan.

### **Nutrient management**

There now is a section in each Planning Module that asks about nutrients and how the nutrients from the proposed project will be handled. UAJA, and hence the Region, has a cap load, which is in total pounds per year, and is based on the existing plant capacity. To adequately answer this section of each planning module, the 537 Plan should include a section to describe the alternatives available to UAJA to meet the nutrient management requirements.

### **Capacity**

The current Act 537 Plan includes a sewer service area that exceeds 9MGD in potential capacity demand. The plan also includes a capacity for UAJA’s plant of 9MGD. The disconnect between these two numbers has been a source of confusion in the past decade. When UAJA is asked if we have capacity for a proposed rezoning to a higher density, our answer has consistently been that as long as the municipalities intend to address this through either removing EDU’s from the sewer service area or by adding capacity to the treatment plant, then capacity can be assumed to be available. While this capacity question is many years away, UAJA must continue to answer the question as we always have. A carefully worded statement to address this capacity disconnect could be added to the Act 537 Plan.

### **Halfmoon Township Sewer Service**

The current Act 537 Plan does not include public sewer service to any portion of Halfmoon Township. However, the discussion continues. While the discussion is occurring, more development is happening in Gray's Woods. The sewer lines being built at the developer's expense are being designed and built without service to Halfmoon Township being considered. These lines could be built with future service to Halfmoon Township included in the design if the possibility of future service to Halfmoon Township, regardless of how distant in the future, was included in the Act 537 Plan. Developers would then be building a portion of the future infrastructure needed for service to Halfmoon Township, thus reducing the future cost. Allowing for the possibility of service to Halfmoon Township does not require a decision to actually serve any portion of Halfmoon Township.

### **Grayswoods**

Currently Grayswoods is served by a complicated system of pump stations pumping to pump stations pumping to pump stations. Much of this infrastructure is reaching its useful life, and either needs to be upgraded or replaced. Any changes to the system beyond simply replacing the components of the existing stations need to be reflected in the Act 537 Plan. This infrastructure is part of the system that would be required to serve Halfmoon Township in the future.

### **Penn State**

Penn State is exploring wastewater alternatives and water supply alternatives which will cost many millions of dollars. In the past, Penn State was left out of the Act 537 Plan and allowed to handle their wastewater separately. This made sense when the Centre Region appeared to be capacity limited. That is no longer the case. It is possible that an integrated plan could save the rate payers of UAJA a lot of money.

All of the above items are planning issues that must be addressed for UAJA to continue being well prepared for the future. The Board should consider which, if any, items they would like to forward on to COG for consideration in an Act 537 Plan update.

**Act 537 Plan  
Amendment  
Approved**

A motion was made by Mr. Dempsey, seconded by Mr. Dietz, to instruct Staff to send a formal request to COG for an Act 537 Plan update including all the elements discussed above with emphasis on the Reuse water, Capacity and Penn State University. The motion passed unanimously.

## **5.5 Requisitions**

BRIF #98	Robert P. Lepley Electric Pay App #8 Big Hollow Pump Station	\$4,967.48
BRIF #99	Lobar Inc. Pay App #16 Big Hollow Pump Station	\$393,295.25
BRIF #100	Dale Summit Acquisitions August 2014 Lease Pymt	\$25,000.00

Reuse Water Storage Tanks

BRIF #101	Port Vue Plumbing Pay App #6	\$5,605.01
BRIF #102	HRG Construction Admin. Ghaner 1 replacement	\$494.78
BRIF #103	HRG Construction Admin. Kissinger Meadow	\$4,000.00
BRIF #104	Centre Region Planning Agency GIS work	\$652.50
BRIF #105	Groff Tractor and Equipment Equipment Rental 7/21 – 8/17	\$5,000.00
BRIF #106	Fisher Scientific Glassware washer	\$9,876.23

**Requisitions  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve the BRIF # 98-106. 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 July 31, 2014.

**7.2 Chairman's Report**

No report.

**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>Feb. 2014</u>	<u>Mar. 2014</u>	<u>Apr. 2014</u>	<u>May 2014</u>	<u>Jun. 2014</u>	<u>Jul. 2014</u>
<b>Production</b>	623 cu/yds.	680 cu/yds.	716 cu/yds.	859 cu/yds.	689 cu/yds.	613 cu/yds.
<b>YTD. Production</b>	1,406 cu/yds.	2,086 cu/yds.	2,802 cu/yds.	3,661 cu/yds.	4,350 cu/yds.	4,963 cu/yds.
<b>Distribution</b>	0 cu/yds.	387 cu/yds.	2,299 cu/yds.	863 cu/yds.	561 cu/yds.	645 cu/yds.
<b>YTD.</b>	139 cu/yds.	526 cu/yds.	2,825 cu/yds.	3,688	4,249	4,894

<b>Distribution</b>				cu/yds.	cu/yds.	cu/yds.
<b>Immediate Sale</b>	2,533 cu/yds.	2,772 cu/yds.	1,163 cu/yds.	907 cu/yds.	1,205 cu/yds.	1,247 cu/yds.
<b>Currently in Storage</b>	3,541 cu/yds.	3,452 cu/yds.	1,879 cu/yds.	1,766 cu/yds.	1,894 cu/yds.	1,860 cu/yds.

**SEPTAGE OPERATIONS**

	<b>Feb. 2014</b>	<b>Mar. 2014</b>	<b>Apr. 2014</b>	<b>May 2014</b>	<b>Jun. 2014</b>	<b>Jul. 2014</b>
<b>Res./Comm.</b>	0 gals.	0 gals.	6,500 gals.	10,000 gals.	19,100 gals.	13,300 gals.
<b>* Other Flow</b>	82,500 gals.	52,500 gals.	66,000 gals.	78,000 gals.	0 gals.	0 gals.
<b>CH/Potter</b>	4,065.75 lbs/solids	3,903.12 lbs/solids	9,324.12 lbs/solids	8,239.92 lbs/solids	8,131.50 lbs/solids	12,414.09 lbs/solids
<b>Port Matilda</b>	1,251.00 lbs/solids	1,534.56 lbs/solids	1,718.04 lbs/solids	1,901.52 lbs/solids	1,617.96 lbs/solids	1,768.08 lbs/solids
<b>Huston Twp.</b>	0 lbs/solids	600.48 lbs/solids	1,100.88 lbs/solids	0 lbs/solids	817.32 lbs/solids	600.48 lbs/solids
<b>Total Flow</b>	120,500 gals.	98,500 gals.	144,500 gals.	153,500 gals.	88,600 gals.	100,300 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 with no exceptions to our NPDES permit. The 12-month rolling average flow for July was 4.32mgd with the average for the month being 3.99mgd. Please see chart below.



There were no inspections by DEP this month.

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

**Plant Maintenance**

- Replaced the diaphragm in Primary Pumps #7 and #12.
- Repaired the water pressure regulator in the metering pit on Trout Road.
- Replaced the water heater in the Maintenance Shop.

- Repacked the check valves at the Main Station.
- Replaced the HACH DO controller for Train #2 Zone 3A.
- Relocated the ice maker in the Lab in preparation for the new dishwasher.
- Repaired the CMF process air regulator.
- Replaced the electric heater in the CMF CIP Tank.
- Replaced the cooling fan in #2 Air-compressor in the AT Bldg.
- Repaired the controls for the Reuse Mioxx Pumps.
- Repaired the floor boards and took the Chevy S-10 to L.W. Hose for inspection.
- Replaced the splice joint on the horizontal belt in Compost.
- Replaced a blown hydraulic line on Composter #1
- Replaced the drive belts on MAU-1301.

**Reuse Total**

Total for 2014-----66,700,300 gallons.  
 Total for July 2014-----14,855,500 gallons.  
 Total Reuse Water Distributed to Date-----510,663,900 gallons.

**7.5 Collection System Superintendent’s Report**

The following comments are as presented to the Board in the written report prepared by Richard Lahr, Collection System Superintendent.

- (UA) Lateral Installations – (1) St. Joseph’s Academy Gymnasium
- (UA) Lateral Repairs – (0)
- (UA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (UA) Mainline Repairs – (0)
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (8)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (0) manholes inspected- (0) feet cleaned
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (10)

We are working on the N. Allen Street rehabilitation, and are approximately 90% completed.

**(A)Construction &(B)I/I Inspection**(A)(We TV’d 893 ua/0 fta feet of mainline and inspected 7 ua/0 fta MH’s .) (B)Tested/Grouted – (MH’s grouted ua 0 fta 0 /Joints tested ua 0 fta 0 /grouted ua 0 fta 0 ) (Grout used 0/Gal.). Estimated I/I-flow decreased (0gpd/= 0 EDU’s).

**Lift Station Maintenance:**

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

We pumped with tankers at Scott Road during the heavy rain event near the end of the month, keeping all of the flow in the wet well.

**Inspection:** Final As-builts Approved Liberty Hill, Phase 3

Mainline Construction:

- a. Liberty Hill, Phase 2C – As-built drawings are being put into electronic form for GIS inclusion.
- b. CVS, N. Atherton – Construction is complete. We are awaiting As-built submission.
- c. Rockey Ridge, ph2 – Construction is approximately 50% complete.
- d. Villai & Villa 2 Apts. Replacement – Construction is approximately 55% complete.
- e. The Gates – Construction is approximately 90% complete.

**New Connections:**

a.	Single-Family Residential	15	c.	Commercial	4
b.	Multi-Family Residential	0	d.	Industrial	0
					<b>TOTAL 19</b>

PA One-Calls Responded to 7/1-31/14: **283**

**7.6 Engineer’s Report**

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

**Retainer**

- Sewer Model Updates –Staff is updating the GIS data base for geospatial EDU distribution.

**Big Hollow Interceptor Rehabilitation**

- **Contract 09-4/5/6 Big Hollow Diversion Pump Station (General, Mechanical, Electrical)**

***Contract Summary (as of August 20, 2014, date of Board Meeting)***

Notice to Proceed	Contract Time <sup>1</sup>	Substantial Completion <sup>1</sup>	Time Used	% Used
2/26/2013	323	1/15/2014	540	+100%

<sup>1</sup>Contract Time and Substantial Completion Date reflect time extension in accordance with Applicable Change Orders.

- Contracts 09-4, 09-5, 09-6: Big Hollow Diversion Pump Station
  - ✓ Construction Conference No. 17 was held on August 7, 2014.
  - ✓ Contractor and Owner mutually agreed to postpone mediation until project completion for Engineer’s denial of costs for flooding.
  - ✓ Contractor requested time extensions
    - Delays associated with wet weather
    - Delays associated with delay in permanent power
    - Delays associated with cold weather
    - Delays associated with relocation of sewer line
  - ✓ New wet well covers have been installed.
  - ✓ Flow diversion has occurred and the station has been operating on the 100 Series Pumps and the 20-inch forcemain.
  - ✓ Lining of 36” highway crossing installed and tested.
  - ✓ Majority of 36” forcemain installed.
  - ✓ Work remaining:
    - Installation of air release chambers
    - Final tie-ins
    - Start-up of 200 Series Pumps.

***Contract Changes (Change Orders/Work Change Directives)***



The following summarizes the status of all Contract Changes requested, approved, or pending:

No.	Contract	Description	Amount	Notes
CO 4-1	GC	Delete requirement for obtaining Building Permit.	(\$20,543.11)	Executed
CO 4-2	GC	Additional Code Requirements	16,818.99	Executed
CO 4-3	GC	Shorten Factory Pump Cable Lengths	(\$9,135.00)	Executed
CO 4-4	GC	Additional Time for Rain Events	21 Days	Mediation
CO 4-5	GC	Modified Grading/Deletion of Field Controls	\$1,210.74	Time Requested
CO 4-6	GC	Relocate Sewer on north side of I-99	\$3,962.41	Executed
CO 6-1	EC	Add Junction Box & Wiring/Upsize main breaker	\$4,492.70	Executed
CO 6-2	EC	Provide Starters for EF-1, EF-2, and SF-1	\$ 4,168.45	Recommended
COR 4-2	GC	Upcharge for window frame color selection	\$875.00	Rejected
COR 4-4	GC	Additional Compensation for Rain Events	\$125,270.46	Rejected
WCD 4-4	GC	Cut through concrete encasement on 36" pipe	Developing	Recommended
WCD 4-5	GC	Delete Requirements for Code Required Testing	Developing	Concrete Testing

*Applications for Payment*

The following Applications for Payment were received and are recommended for approval, as follows:

Contr. No.	Contract	Contractor	APP No.	Amount
09-4	General	Lobar, Inc.	16	\$393,295.25
09-5	Mechanical	Port Vue	6	\$ 5,605.01
09-6	Electrical	Lepley Electric	8	\$ 4,967.48
				\$403,867.74

**Constructed Wetlands**

- ✓ Contractor has commenced work
- ✓ Construction Conference No. 1 was held on August 13<sup>th</sup>
- ✓ Stream crossing installed (directional drill)
- ✓ Contractor working to install distribution piping

**Radio Park Interceptor**

- ✓ Finalized hydraulic model update for the Radio Park Sewershed using survey data collected for manholes at Atherton Street crossing. Existing EDU distribution and allocation was completed by counting EDUs for single residential units and consulting with UAJA staff for multiple EDU connections. Future modeling was completed using Centre Region Planning's build-out analysis.

**Selders Circle Sewer Relocation**

- ✓ Stake-out tentatively scheduled for week of August 18<sup>th</sup>.

**Ghaner Road Pump Station**

- ✓ Temporary communication is established with the radio, but information is limited.
- ✓ Plan for “worst case” scenario simulation.
- ✓ PLC programming updates required for alarm descriptions.

**Odor Control Study**

- ✓ Plant tour and sampling location evaluation completed on August 8, 2014. Ten sampling locations identified.
- ✓ Public outreach meeting and plant tour to occur on August 20, 2014 after board meeting.
- ✓ Summer sampling even to occur on August 21, 2014.

**7.7 Executive Director’s Report**

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

**Reuse Water Agreement Meeting**

A meeting has been scheduled for September 16, 2014 with College Township Water Authority and Mr. Brumbaugh to discuss the Reuse Water Agreement.

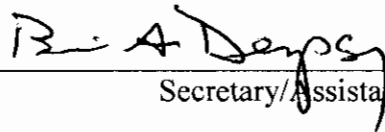
**8. Other Business**

**9. Adjournment**

The meeting was adjourned at 5:40 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



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Secretary/Assistant Secretary