

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – December 17, 2014

1. Call to Order

Mr. Schmalz, Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00p.m. Wednesday, December 17, 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, Nucciarone, and Schmalz; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director, Dick Lahr, Collection System Superintendent; Art Brant, Plant Superintendent; Jason Brown, Project Manager; Dick Campbell, Solicitor; Doug Weikel and Ben Burns, Consulting Engineers; Jason Wert and Chris Underwood, Rettew; Janet Sulzer and Eric Vorwald, Centre Region; Mark Whitfield, State College Borough; Jon Sepp, Penn Terra Engineering; and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – November 19, 2014

UAJA Meeting Minutes Approved
--

A motion was made by Mr. Lapinski, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on November 19, 2014 as submitted. The motion passed unanimously.

3. Public Comment

Ms. Sulzer reported that Centre Region Planning will be discussing the Act 537 update at their meeting in January 2015. This was Ms. Sulzer's last meeting as the liaison. Her time has been greatly appreciated.

4. Old Business

4.1 Industrial Pretreatment Resolution 14-3

Included in the agenda packet is the proposed Industrial Pretreatment Resolution. A headworks analysis was completed in August 2014. The proposed resolution reflects changes in the limits for our industrial permits, all of which will be less restrictive on the industries.

In addition to the limits, EPA required minor changes to the resolution to make it clear that UAJA has the authority to enforce the limits independent from relying on the individual municipal ordinances.

Industrial Pretreatment Resolution 14-3 Approved

A motion was made by Mr. Lapinski, seconded by Mr. Dempsey, to approve the Industrial Pretreatment Resolution 14-3. The motion passed unanimously.

4.2 Sewer Service to Whitehall Park and The Cottages (Whitehall Road)

At the November meeting, sewer service to The Cottages was discussed. The developer has proposed a pump station and 1 mile long force main to serve the development. There is a much closer sewer which would result in a 1/3 mile force main, however, that is a State College Borough sewer line. Connecting to that line would result in the developer having to pay the Borough tapping fee as well as the UAJA tapping fee.

Also discussed at the November meeting was the likelihood of piecemeal development in College and Harris Townships on land zoned agriculture that is tributary to Slab Cabin Run. If these lands develop based on existing zoning, even though they are outside of the sewer service area, there could be 500 or more homes on septic tanks. College and Harris Township zoning

both allow for single family homes on one acre lots in the agricultural zone. If the municipalities decide to allow those developments to connect to the sewer as they happen UAJA will end up with a lot of pump stations and force mains.

All of this land is mapped as “Agriculture” in the future land use map of the Centre Region Comprehensive Plan. The plan describes this future land use as follows:

Agriculture - This category is for land dedicated to farming (fields, lots, pastures, farmsteads, specialty crops, livestock production, etc.), agriculture, or similar agrarian land uses primarily located in rural areas where urban services are limited or do not exist. Residential land uses associated with the agricultural land use (such as a farmhouse) may be included in this category.

Clearly, there is a difference between the current agricultural zoning and the agriculture future land use in the comprehensive plan. 500 single family homes do not leave much space for agricultural activity.

All of this land could be served by a gravity interceptor near Slab Cabin Run. From the proposed location of the pump station to serve the Whitehall Road development, approximately 2 miles of gravity sewer would be required. The pump station and 1 mile of force main would not need to be built, thus the funds the developer was going to spend on that system could instead be spent on the gravity system. In addition, the special purpose tapping fee of \$509 per EDU for the Radio Park related improvements would not need to be paid, so that money would be available to construct the gravity sewer.

Options:

1. 1 mile force main and pump station as proposed by the developer. This option is most beneficial to the developer.
2. 1/3 mile force main and pump station to borough sewer. From future upkeep and maintenance perspective, this is more advantageous to UAJA. Developer would pay additional tapping fee to the borough.
3. 2 mile gravity sewer along Slab Cabin Run. No pump station. Sewer could be used by all lands in College and Harris Townships that would flow by gravity to Slab Cabin Run and are currently zoned agricultural, which allows 1 acre lots on septic systems. Very little value if townships take action to ensure that the future land use in the comprehensive plan is preserved.

A component 3 planning module has been submitted and requires action by UAJA for it to be considered by DEP. UAJA needs to certify that there is capacity available in the collection system and the treatment plant to serve the development. That is the extent of our involvement in the approval process. UAJA needs to respond to the module. There is, however, nothing that says we can't submit comments to be attached to the module.

It is the consensus of the Board that the Executive Director complete the planning module as submitted, but include comments pointing out the availability of a shorter force main option, and the possibility of a gravity solution. In addition, ask the Council of Governments to consider the impact of hundreds of potential on lot septic systems on the Slab Cabin Run sub watershed and

the drinking water supply. Only serve those lots inside the sewer service area even though the sewer gravity line is outside the sewer service area.

5. New Business

5.1 2015 Budget Amendment – Capital Budget

As discussed at November’s meeting, staff did not budget for the RO membrane contract in the 2015 Capital budget approved in October. Staff has prepared an amendment to add this expense (\$158,995) to the Capital Budget. Staff also took this opportunity to update the various projections and assumptions that were made in the Capital budget when it was originally approved. Due to the conservative nature of those original assumptions, the overall financial picture of the Authority going into 2015 is even better than originally projected. The pertinent budget pages have been provided in the packet and will be explained at the meeting.

Recommendation: Approve an amended Capital budget expense of \$158,955 for the RO membrane replacement contract awarded last month. Also accept and approve a revised Capital Budget summary that more accurately reflects our position going into 2015.

2015 Budget Amendment Capital Budget Approved	A motion was made by Mr. Ebaugh, seconded by Mr. Guss, to approve an amended Capital Budget expense of \$158,955 for RO membrane replacement and to approve a revised Capital Budget summary that more accurately reflects our position going into 2015. The motion passed unanimously.
--	---

5.2 Change Order #1 – Contract 2014-5 SHAWT Electrical

The original contract called for rubber coated electrical conduit to be used in the AWT Building. This standard of conduit is not needed and is not in use anywhere else in the building. This change order is a monetary credit to the Authority as we are now allowing EMT conduit instead.

Change Order #1 to Contract 2014-5 Approved	A motion was made by Mr. Dempsey, seconded by Mr. Lapinski, to approve Change Order #1 to Contract 2014-5 for a credit in the amount of \$4,703.48. The motion passed unanimously.
--	--

5.3 Change Order #8 – Contract 09-4 Big Hollow Diversion Pump Station

Final Change Order that resolves all outstanding issues and claims.

Recommendation: Approve Change Order #8 to Contract 09-4 in the amount of \$13,960.25

Change Order #8 to Contract 09-4 Approved	A motion was made by Mr. Ebaugh, seconded by Mr. Lapinski, to approve Change Order #8 to Contract 09-4 in the amount of \$13,960.25. The motion passed unanimously.
--	---

5.3 Requisitions

BRIF #123	Lobar	
	Big Hollow PS Pay App #19	\$11,462.29
BRIF #124	HRG	\$3,212.50
	Odor Control Study	

	Pay App #2	
BRIF #125	HRG Kissinger Meadow Construction Admin.	\$13,000
BRIF #126	HRG Big Hollow Pump Station Construction Admin.	\$2,265.00
BRIF #127	HRG Selder's Circle Stake-out	\$3,807.50
BRIF #128	HRG Ghaner Pump Station Record drawings	\$1,995.00
BRIF #129	Rettew SHAWT Engineering Inv #77121 and shortfall from #120	\$5,900.00
BRIF #130	Dale Summit Acquisitions December Lease Pymt.	\$25,000.00
BRIF #131	M2 Construction SHAWT Pay App #1	\$93,690.00
BRIF #132	Bob Biter Electrical SHAWT Pay App #2	\$20,452.50
BRIF #133	HRG North Allen Construction Admin	\$3,150.01
BRIF #134	Lobar Pay App #20 Big Hollow Pump Station	\$190,110.04
BRIF #135	Robert P. Lepley Electric Pay App #9 Big Hollow Pump Station	\$23,449.65

**Requisitions
Approved**

A motion was made by Mr. Lapinski, seconded by Mr. Ebaugh, to approve the BRIF # 123-135. The motion passed unanimously.

Rev Fund # 136

Debt Service, Operation &
Maintenance

\$1,000,000

**Requisitions
Approved**

A motion was made by Mr. Guss, seconded by Mr. Dempsey, to approve Revenue Fund requisition # 136 in the amount of \$1,000,000. The motion passed unanimously.

6. Reports of Officers

6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending November 30, 2014.

6.2 Chairman's Report

Nothing to add.

6.3 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>Jun. 2014</u>	<u>Jul. 2014</u>	<u>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>
Production	689 cu/yds.	613 cu/yds.	425 cu/yds.	563 cu/yds.	646 cu/yds.	662 cu/yds.
YTD. Production	4,350 cu/yds.	4,963 cu/yds.	5,388 cu/yds.	5,951 cu/yds.	6,597 cu/yds.	7,259 cu/yds.
Distribution	561 cu/yds.	645 cu/yds.	432 cu/yds.	1,428 cu/yds.	559 cu/yds.	227 cu/yds.
YTD. Distribution	4,249 cu/yds.	4,894 cu/yds.	5,326 cu/yds.	6,754 cu/yds.	7,313 cu/yds.	7,540 cu/yds.
Immediate Sale	1,205 cu/yds.	1,247 cu/yds.	1,428 cu/yds.	585 cu/yds.	534 cu/yds.	953 cu/yds.
Currently in Storage	1,894 cu/yds.	1,860 cu/yds.	1,853 cu/yds.	1,148 cu/yds.	1,180 cu/yds.	1,615 cu/yds.

SEPTAGE OPERATIONS

	<u>Jun. 2014</u>	<u>Jul. 2014</u>	<u>Aug. 2014</u>	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>
Res./Comm.	19,100 gals.	13,300 gals.	0 gals.	7,400 gals.	0 gals.	0 gals.
* Other Flow	0 gals.	0 gals.	0 gals.	0 gals.	152,000 gals.	0 gals.
CH/Potter	8,131.50 lbs/solids	12,414.09 lbs/solids	3,144.18 lbs/solids	5,204.16 lbs/solids	6,963.90 lbs/solids	1,843.14 lbs/solids
Port Matilda	1,617.96	1,768.08	1,417.80	1,551.24	1,651.32	1,451.16

	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids	lbs/solids
Huston Twp.	817.32 lbs/solids	600.48 lbs/solids	567.12 lbs/solids	683.88 lbs/solids	617.16 lbs/solids	417.00 lbs/solids
Total Flow	88,600 gals.	100,300 gals.	39,500 gals.	72,900 gals.	227,000 gals.	37,500 gals.

6.4 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 November was 4.39mgd with the average for the month being 3.97mgd. 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, #2 and #4; eight tertiary filters.

Below is the chart for Reuse Distribution and Temperature Data:

	Nov-14	YTD	Plant Eff. Temp	Wetland Eff. Temp.
Best Western	27,000	352,000		
Centre Hills	414,000	43,751,000	Nov-14	Nov-14
Cintas	692,000	8,404,000	62.9	55.1
Red Line	199,000	2,688,000		
Uaja Wetland	4,231,000	59,997,000		
Wetland Vault	5,770,000	5,863,000		
Kissingers	935,820	1,829,820		
Stewarts	0	15,300		
TOTAL	12,268,820	122,900,120		

Plant Maintenance

- Replaced the diaphragm in Primary Pump #6.
- Repaired lighting around the facility.
- Replaced the batteries in the Main Station generator.
- Replaced the motor bearings in MAU-1303 and the motor in MAU-1302 at Compost.
- Repaired the wiring in the control panel for Composter Dolly #2.
- Tested air flow in all the Compost Bays. Air flow was reduced and will require cleaning. This will be done over a period of time as bays become available for extended periods of time.
- Replaced the water heater in the Control Bldg.
- Technicians from AUMA were in to assist maintenance with ongoing issues with the actuators in the Tertiary Bldg. They discovered that a firmware update that was not meant for our “older” facility had been installed in the parts we were ordering. They updated the printed circuit cards and everything is working properly. This was done at no charge for their visit.
- The Headworks air monitor was calibrated. Two of the sensors were replaced.
- The 01’ Chevy was inspected and the heater motor was replaced in the 99’ Chevy.

- Replaced all the grease lines in the MUA units.

6.5 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) 329 Innovation Blvd.
- (UA) Lateral Repairs – (0)
- (UA) Mainline Cleaning – (39) manholes inspected- (4935) feet cleaned
- (UA) Mainline Repairs – (2) 1857 N. Atherton St., 1909 N. Atherton St.
- (UA) Manhole Repairs – (0)
- (UA) Manhole Casting Repairs – (0)
- (FTA) Lateral Installations – (0)
- (FTA) Lateral Repairs – (0)
- (FTA) Mainline Cleaning – (24) manholes inspected- (4357) feet cleaned)
- (FTA) Mainline Repairs – (0)
- (FTA) Manhole Repairs – (0)
- (FTA) Manhole Casting Repairs – (0)

We have completed the work at the Big Hollow driveway entrance, which hopefully will help channel some of the storm water to where it needs to go rather than washing us out. We also had the entrance paved with a swale in it to help with the water movement. The 100 series pump that had shorted out has been removed. We have completed approximately 60% of the Selder's Circle mainline replacement work in Pine Grove Mills. We have been asked by Ferguson Twp. to delay completion until spring of 2015. We also did some work with the wetland discharge pipes.

(A)CONSTRUCTION &(B)I/I INSPECTION: (A)(We TV'd 8123 ua/4375 fta feet of mainline and inspected 59 ua/24 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 cleaned grease out of the wet wells. We rebuilt 2 E-One grinder pumps.

INSPECTION: Final As-builts Approved: None

Mainline Construction:

- a. Rocky Ridge, ph2 – We are awaiting As-built revisions.
- b. Villa1 & Villa 2 Apts. Replacement – Construction is complete. We are awaiting As-builts.
- c. Turnberry, Ph2 – Construction is approximately 95% complete.
- d. The Landings, Ph1B – We are awaiting As-built revisions.
- e. Saybrook, Ph 10 - We are awaiting As-built revisions.

New Connections:

a.	Single-Family Residential	5	c.	Commercial	0	
b.	Multi-Family Residential	9	d.	Industrial	0	
					TOTAL	14

PA One-Calls Responded to 11/1-30/14: 176

6.6 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 database 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 December 11, 2014, date of Substantial Completion)

Notice to Proceed	Contract Time ¹	Substantial Completion ¹	Time Used	% Used
2/26/2013	323	1/15/2014	653	+100%

¹Contract 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
 - ✓ Contractor and Owner met on December 2, 2014 to discuss outstanding claims. An update will be provided at the meeting.
 - ✓ Pump station is operational.
 - ✓ Working with Contractors to relocate the floats and transducer in both wet wells.
 - ✓ A substantial completion inspection was held on December 11th at 1 PM for all Contracts.
 - ✓ Contractors to complete punchlist items.

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 4-7	GC	Cut through concrete encasement on 36" pipe	\$7,893.81	Executed
CO 4-8	GC	Negotiated Settlement	\$13,960.25	To Discuss
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
COR 4-12	GC	Work Change Directive 4-4, Concrete Cutting	\$7,893.81	Recommended

COR 4-13	GC	Rain Event on August 20, 2014	\$14,749.71	Under Review
COR 4-14	GC	Rain Event on August 20, 2014 (Revised)	\$ 3,563.08	Under Review
WCD 4-5	GC	Delete Requirements for Code Required Testing	Developin g	Part of Negot.

Applications for Payment

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

Contr. No.	Contract	Contractor	App No.	Amount
09-4	General	Lobar, Inc.	20	\$190,110.04
09-5	Mechanical	Port Vue	--	\$ --
09-6	Electrical	Lepley Electric	--	\$ --
				\$190,110.04

The following summarizes amounts to be paid for the Substantial Completion Application and remaining retainage (1.5 x the Punchlist Value) for all Contracts:

- Contract 09-4: \$190,110.04 (Punchlist Retainage = \$35,025.00)
- Contract 09-5: \$1,175.00 (Punchlist Retainage = \$14,475.00)
- Contract 09-6: \$23,449.65 (Punchlist Retainage = \$5,400.00)

Note: This does not reflect actual application for payments received.

Constructed Wetlands

- Substantial completion granted. A final completion inspection will be conducted when requested by the contractor after all punchlist items have been completed.
- A warranty notice was issued for leaking manholes (water infiltrating into the manhole).

Applications for Payment

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

Contr. No.	Contract	Contractor	App No.	Amount
14-9	General	John Nastase	-	\$--
				\$--

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
COR 1	GC	Relocate PRV Vault due to Waterline Location	\$ 4,703.48	Executed

Selders Circle Sewer Relocation

- HRG is available as needed to assist with construction activities.

Ghaner Road Pump Station

- Record Drawings are being prepared.

Odor Control Study

An air ionization test unit was installed in the Control Room in the Dewatering Building to subjectively evaluate ionization technology. It is possible that ionization technology for odor control will be considered as an alternative as the Odor Control Study progresses.

6.7 Construction Report

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

General Services

General Services Items Completed for the Authority:

- Completed Act 129 Energy Rebate Documentation for Authority Improvements
- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Performed Modifications to SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Assisted in Discussion to Improvements to Compost Airflow Remediation

Solids Handling and Advanced Water Treatment System Upgrades – Contract 2014-05 through -08

Update of Construction Progress:

- Progress Meeting No. 3 was held on December 4, 2014 and a copy of the meeting minutes, submittal logs, etc. is attached for the Board's review.
- The Ozone Generation System has been placed into production by Contract 2014-05 (General) and is under construction. The majority of the submittal work has been completed by the Contractors for long-lead time items and is now focusing on minor items such as piping, etc.
- Demolition work is slated to begin in December 2014 in the AWT building.
- Submittals are underway for Contract 2014-06 (Mechanical) with mobilization to occur in December 2014.
- Contract 2014-07 (Electrical) has mobilized and complete minor wiring and conduit modifications.
- The date for Substantial Completion is February 21st, with 104 of the 180 days of the Contract Expired.

Payment Applications and Change Orders:

- Change Order #1 was received in the deduct amount of \$2,592.00 for Contract 2014-07 from Bob Biter Electrical Contractors, Inc. for the conversion of conduit from PVC coated RGS (specified) to match the existing EMT conduit in the AWT Building. The Change Order was requested by RETTEW, was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #1 was received in the amount of \$93,690.00 for Contract 2014-05 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Payment Application #2 was received in the amount of \$20,452.50 for Contract 2014-07

from Bob Biter Electrical Contractors, Inc. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.

- A summation of the payment amounts to date are as follows:

CONTRACT	Contract Amount	Change Orders Amount	Work Completed	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	-	\$104,100.00	\$93,690.00	\$861,010.00
2014-06	\$198,500.00	-	-	-	\$198,500.00
2014-07	\$121,700.00	(\$2,592.00)	\$26,984.00	\$24,285.60	\$97,414.40

*Inclusive of Recommended Payment for this Board Report

Membrane Procurement Contract (2014-08):

- RETTEW provided Notice of Award to GCS Water Purification, LLC (Toray) in the amount of \$158,995.00 for Contract 2014-08. Executed Contract Documents are due by December 16, 2014.

6.8 Executive Director's Report

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

Regional Organic Collection

Mr. Miller informed the Board that there is going to be an alternate drop off site for brush that is collected with grinding being performed at that location. UAJA will be paying for the grinding.

Water Conservation

Mr. Miller informed the Board that Mr. Tom Songer is working on a plan for the entire region under the guidelines of the EPA plan. Mr. Ebaugh volunteered to be part of this committee.

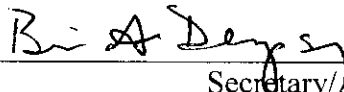
7. Other Business

8. Adjournment

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

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary