

**MINUTES**  
**UNIVERSITY AREA JOINT AUTHORITY**  
**1576 SPRING VALLEY ROAD**  
**STATE COLLEGE, PA 16801**  
**Regular Meeting – March 18, 2015**

**1. Call to Order**

Mr. Dempsey, Secretary, called the scheduled meeting of the University Area Joint Authority to order at 4:05 p.m. Wednesday, March 18, 2015. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dempsey, Dietz, Ebaugh, Guss, McShea, Nucciarone, Spac and Ms. Prestia; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Dick Lahr, Collection System Superintendent; Jason Brown, Project Manager; David Gaines, Solicitor; Tom Holleran and Dave Swisher, Consulting Engineers; Chris Underwood, RETTEW; Eric Vorwald and Sharon Bressler, Center Region; residents from around the plant area and Kathy Wheeler, Recording Secretary.

**2. Reading of the Minutes**

**2.1 UAJA Regular Meeting – February 18, 2015**

**UAJA**  
**Meeting Minutes**  
**Approved**

A motion was made by Mr. McShea, seconded by Mr. Guss, to approve the minutes of the UAJA meeting held on February 18, 2015 as submitted. The motion passed unanimously.

**3. Public Comment**

Several residents from the Independence Place and Birchtree Court area were in attendance to discuss odor issues. Residents explained the impact odor was having on their communities. These concerns included the quality of life and the impact that the odor had on both residential and commercial properties. Mr. Miller updated the steps that have been completed by UAJA to mitigate odor problems. This included cleaning the bio filters and repairing a valve that was allowing odors to bypass the biofilter. UAJA is also conducting an Odor Study which will identify steps that will need to be taken to better control odors from the plant. This study should be completed in August 2015.

**4. Old Business**

**4.1. Contract #2015-05 Automated TOC Analyzer**

Bids were opened March 9, 2015 for Contract 2015-05. The bids received were:

Teledyne	\$21,238.00 (non-responsive)
<b>OI Analytical</b>	<b>\$25,959.65</b>
Teledyne	\$27,301.00
Shimadzu	\$34,921.35
Shimadzu	\$36,543.15

**Contract #2015-05**  
**Approved**

A motion was made by Mr. McShea, seconded by Mr. Dietz, to award Contract #2015-05 to OI Analytical for \$25,959.65. The motion passed unanimously.

**4.2 Water Conservation and Volumetric Billing**

Continued discussion on water conservation and volumetric billing. No action taken.

**4.3 Final Design: The Gates Phase II**

Final design drawings for the Gates Phase II sewer extension (Harris Township) have been

received and reviewed by staff and our consulting engineer. The sewer extension will serve 40 EDU's of multi family homes. The review comments have been addressed.

**Final Design  
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Spac, to Approve the Final Design: The Gates Phase II. Motion passed unanimously.

#### 4.4 Update of UAJA Standard Specifications

UAJA's Standard Specifications have not been updated for more than ten years.

Many of the material specs are obsolete, specifying materials that are no longer available. This project was not considered in the 2015 budget, because at the time it appeared to be a low cost project. What was believed to be a minor editing project, on closer review requires a substantial re-write. HRG has prepared a proposal to update the specifications. Staff recommends updating the entire specification package for a cost of \$27,100.

The work schedule includes time for developers and engineers in the region to provide input to the process. Once the work is completed, the specifications will need to be adopted by the Board.

This project does not have a line item in the budget. Staff proposes to pay for it through the Miscellaneous Outside Services line item, which will most likely over spend that line item.

**Update Specifications  
Approved**

A motion was made by Mr. McShea, seconded by Mr. Ebaugh, to approve the HRG proposal to update the UAJA Standard Specifications for a cost of \$27,100. Motion passed unanimously.

### 5. New Business

#### 5.1 National Fish and Wildlife Federation Grant Application

The National Fish and Wildlife Federation (NFWF) has announced a round of grants specifically targeted for the Chesapeake Bay watershed. The grants are up to \$50,000 for "Technical Capacity". The idea is to improve a community's approach to watershed restoration.

Phase III of the reuse project describes the use of the beneficial reuse water for environmental enhancement in the Slab Cabin Run Basin between Atherton Street and Pine Grove Mills. UAJA needs to know where the reuse water should go to have the greatest impact. The grant funds would be used to determine what Slab Cabin Run was like before human disturbance, and describe projects to improve the stream. By including beneficial reuse as part of the evaluation, UAJA should be provided with the best locations for using the water to benefit the stream.

The grant requires no monetary match. NFWF is looking for proposals that will result in future projects that will be very likely to be built. Phase III of the Reuse Project will almost certainly be built at some time in the future.

NFWF has a list of approved technical assistance providers that become the actual applicant. UAJA becomes the beneficiary. Staff is recommending Land Studies from Lititz, PA to be the applicant.

**National Fish and  
Wildlife Federation  
Grant Application  
Approved**

A motion was made by Mr. Dietz, seconded by Mr. Ebaugh, to approve having Land Studies act as the applicant for a NFWF Technical Capacity Grant with UAJA as the beneficiary. Motion passed unanimously.

**5.1 Requisitions**

BRIF #153	M2 Construction SHAWT 14-05 (General) Pay App #4	\$278,366.15
BRIF #154	M2 Construction SHAWT 14-06 (HVAC) Pay App #2	\$72,164.70
BRIF #155	Dale Summit Acquisitions March Lease Pymt.	\$25,000.00
BRIF #156	Rettew SHAWT Engineering Inv #84854	\$2,900.00
BRIF #157	HRG Odor Control Study Pay App #5	\$654.62

**Requisitions  
Approved**

A motion was made by Mr. Guss, seconded by Mr. Dietz, to approve the BRIF Requisitions #153-157. The motion passed unanimously.

BRIF #158	Lobar Inc. Big Hollow Pump Station Pay App #21 (FINAL)	\$35,025.00
BRIF #159	Port Vue Plumbing Big Hollow Pump Station Pay App #8 (FINAL)	\$15,650.00
BRIF #160	Robert P. Lepley Big Hollow Pump Station Pay App #10 (FINAL)	\$5,400.00

**Requisition  
Approved**

A motion was made by Mr. Ebaugh, seconded by Mr. McShea, to approve BRIF requisitions 158 - 160 but to place them on hold until the final certified payroll and all other required paperwork is completed to finalize the project. Staff was authorized to execute payment when appropriate. The motion passed unanimously.

## Reports of Officers

### 6.1 Financial Report

Mr. Smith reviewed with the Board the YTD budget report for the period ending February 28, 2015.

### 6.2 Chairman's Report

None

### 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>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>
<b>Production</b>	563 cu/yds.	646 cu/yds.	662 cu/yds.	653 cu/yds.	685 cu/yds.	546 cu/yds.
<b>YTD. Production</b>	5,951 cu/yds.	6,597 cu/yds.	7,259 cu/yds.	7,912 cu/yds.	685 cu/yds.	1,231 cu/yds.
<b>Distribution</b>	1,428 cu/yds.	559 cu/yds.	227 cu/yds.	285 cu/yds.	315 cu/yds.	902 cu/yds.
<b>YTD. Distribution</b>	6,754 cu/yds.	7,313 cu/yds.	7,540 cu/yds.	7,825 cu/yds.	315 cu/yds.	1,217 cu/yds.
<b>Immediate Sale</b>	585 cu/yds.	534 cu/yds.	953 cu/yds.	1,330 cu/yds.	1,664 cu/yds.	1,451 cu/yds.
<b>Currently in Storage</b>	1,148 cu/yds.	1,180 cu/yds.	1,615 cu/yds.	1,983 cu/yds.	2,349 cu/yds.	1,997 cu/yds.

#### SEPTAGE OPERATIONS

	<u>Sep. 2014</u>	<u>Oct. 2014</u>	<u>Nov. 2014</u>	<u>Dec. 2014</u>	<u>Jan. 2015</u>	<u>Feb. 2015</u>
<b>Res./Comm.</b>	7,400 gals.	0 gals.	0 gals.	0 gals.	0 gals.	0 gals.
<b>Hawbaker</b>	0 gals.	152,000 gals.	0 gals.	102,000 gals.	33,000 gals.	0 gals.
<b>CH/Potter</b>	5,204.16 lbs/solids	6,963.90 lbs/solids	1,843.14 lbs/solids	5,550.27 lbs/solids	2,339.37 lbs/solids	2,706.33 lbs/solids
<b>Port Matilda</b>	1,551.24 lbs/solids	1,651.32 lbs/solids	1,451.16 lbs/solids	1,634.64 lbs/solids	1,517.88 lbs/solids	683.88 lbs/solids
<b>Huston Twp.</b>	683.88 lbs/solids	617.16 lbs/solids	417.00 lbs/solids	467.04 lbs/solids	350.28 lbs/solids	500.40 lbs/solids
<b>Total Flow</b>	72,900 gals.	227,000 gals.	37,500 gals.	162,500 gals.	69,500 gals.	28,500 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 no exceptions to our NPDES permit. The 12-month rolling average flow for February was 4.27mgd with the average for the month being 4.38mgd. The average monthly **influent** flow was 5.44mgd. 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 #3; eight tertiary filters. DEP inspected the facility on February 19, 2015 with no noted violations. In all of 2014 there was one instance where we reported a low D.O. and one instance where we had a high fecal count. On January 5, of 2015 a Total nitrogen sample was missed by our outside laboratory and an annual Storm Water Inspection was missed in 2014.

Below is the chart for Reuse Distribution and Temperature Data:

	Feb-15	YTD	Plant Eff. Temp	Wetland Eff. Temp.
Best Western	30,000	60,000		
Centre Hills	0	0	Feb-15	Feb-15
Cintas	655,000	1,344,000	53.8	47.8
Red Line	418,000	744,000		
Uaja Wetland	4,777,000	4,777,000		
GDK Vault	12,320,000	22,173,000		
Kissingers	1,050,000	1,847,000		
Stewarts	0	0		
<b>TOTAL</b>	<b>18,455,000</b>	<b>34,927,000</b>		

### Plant Maintenance

- Repaired an air actuator on process valve AV-5 on MF#2 .
- PBCI Allen replaced the blower motor in heat pump HP-5 for the lab.
- Repaired the check valve packing gland on Main Station Pump #2.
- Replaced the pump seal for Backwash Forwarding Pump B.
- A Tuthill blower had to be ordered to replace Blower #1 for the WAS tank #5. The original is over 20 years old. Also replaced the belts on Blower #2 for WAS tank #5.
- Replaced the cutters in all the Primary Pumps in Dewatering.
- We continue removing the old wood chips and cleaning the laterals in the Compost Bays.
- The communications link to Centrifuge #1 failed. The defective part was sent out for repair as these parts are now obsolete.
- Replaced the bay blower on Bay E-11.
- Central Pa. Dock and Door continue to make repairs to the overhead doors at compost.
- Staff members from Maintenance and Collections continue to attend an extensive 5 week electrical training at CPI.
- Replaced the SSOL for the controls on Bay Blower 6-D and 12-D.

### 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.

#### Mainline Maintenance:

(UA) Lateral Installations – (0)

(UA) Lateral Repairs – (0)

(UA) Mainline Cleaning – (97) manholes inspected- (21,112) feet cleaned  
 (UA) Mainline Repairs – (0)  
 (UA) Manhole Repairs – (0)  
 (UA) Manhole Casting Repairs – (0)  
 (FTA) Lateral Installations – (0)  
 (FTA) Lateral Repairs – (0)  
 (FTA) Mainline Cleaning – (11) manholes inspected- (1,618) feet cleaned)  
 (FTA) Mainline Repairs – (0)  
 (FTA) Manhole Repairs – (0)  
 (FTA) Manhole Casting Repairs – (0)

We have been doing snow removal and equipment maintenance. We helped with labor work at the Compost Building, cleaning the bays for air circulation repairs.

**(A)Construction &(B)I/I Inspection:** : (A)(We TV'd 14,905 ua/0 fta feet of mainline and inspected 81 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. Several of our staff are taking an electrical class at CPI. We repaired the comminutor at Piney Ridge and cleared wet wells of grease.

**Inspection:** Provisional As-builts Approved: Turnberry, Ph2, Saybrook, Ph 10

#### **Mainline Construction:**

a. Villa1 & Villa 2 Apts. Replacement – We are awaiting revisions.

#### **New Connections:**

a.	Single-Family Residential	9	c.	Commercial	0
b.	Multi-Family Residential	0	d.	Industrial	0
					<b>TOTAL</b>
					<b>9</b>

PA One-Calls Responded to 2/1-28/15: 141

## **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.
- Reviewed drawings and specifications prepared by the State College Borough to replace sewer sections approaching the Cluster's Meter. A list of comments was provided to Mr. Lahr. HRG is available to attend a meeting with State College Borough on March 16th at 1:30 PM.
- HRG attended a meeting on March 11<sup>th</sup> to discuss The Cottages proposed pump station.

### **Big Hollow Interceptor Rehabilitation**

- Contracts 09-4, 09-5 and 09-6:Big Hollow Diversion Pump Station (General, Mechanical, Electrical)
- P-102 has been returned and re-installed.
- Applications for Payment are presented in the table below. A recommendation for final payment and contract closeout will be provided at the meeting, contingent on the receipt of all required closeout documentation, specifically “final” certified payrolls.

<b>Contr. No.</b>	<b>Contract</b>	<b>Contractor</b>	<b>App No.</b>	<b>Amount</b>
09-4	General	Lobar, Inc.	21 (Final)	\$ 35,025.00
09-5	Mechanical	Port Vue	8 (Final)	\$ 15,650.00
09-6	Electrical	Lepley Electric	10 (Final)	\$ 5,400.00

\$ 55,985.00

### **Constructed Wetlands**

- A warranty notice was issued for leaking manholes (water infiltrating into the manhole). The Contractor attempted to complete these repairs; however, active infiltration was not observed. The Contractor will complete these repairs in the spring when groundwater levels are higher.
- The orifice plates were delivered and will be installed to help balance water flow.

### **Selders Circle Sewer Relocation**

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

### **Ghaner Road Pump Station**

- Final Record Drawings are being prepared and will be submitted to the Authority.

### **Odor Control Study**

- The HRG/Material Matters team will be meeting with Authority staff to schedule and plant the final, spring sampling event.
- HRG is working with the Authority’s staff to identify interim rehabilitation methods to improve biofilter performance.

### **Standard Specifications and Details Update**

- HRG prepared and submitted a proposal to provide engineering services to develop and update standard specifications and details.
- A meeting was held on February 17<sup>th</sup> to discuss pump station control requirements.

## **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:

- Continued Coordination of Compost Modifications to Left/Right Servers from AEC Engineering (Portland, ME) and UAJA Staff
- Continued Coordination of SCADA System to facilitate enhanced use between Servers (Compost, Left, Right)
- Assistance with Compost Process and Mix Design
- Evaluation of Heat Recovery and Chilling with Reuse Water

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

**Update of Construction Progress:**

- Progress Meeting No. 6 was held on March 5, 2015 with the only major issues being schedule. Authority and RETTEW have stressed overall schedule to the Contractors and the project is progressing with the majority of processes slated to startup during the month of March. We anticipate the contractor will be approximately 35-45 days late on Substantial Completion.
- The Ozone Generation System has been delivered by Contract 2014-05 (General) and is under construction. This is slated for startup at the end of March.
- The sludge pumps and macerators have been installed and are slated for startup on March 13, 2015.
- The MF/RO Controls Replacement is slated for installation on March 18<sup>th</sup>
- Contract 2014-06 (Mechanical) completed the majority of the project and is awaiting shipment of the Dehumidifier Unit to complete their work. The new Reuse Water Chiller System will startup prior to the end of March.
- Contract 2014-07 (Electrical) has completed all of the minor wiring and conduit modifications and installed the new Adjustable Frequency Drives in the Aeration System and Secondary Sludge Pumping Building.
- The date for Substantial Completion was February 21<sup>st</sup>, with 25 Days of the Contract Expired over the completion date.

**Payment Applications and Change Orders:**

- Payment Application #4 was received in the amount of \$278,366.15 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 \$72,164.70 for Contract 2014-06 from M2 Construction, LLC. This Payment Application was received and reviewed by UAJA and RETTEW and is recommended for Approval.
- Change Order #1 was received in the additive amount of \$6,315.81 for Contract 2014-06 from M2 Construction, LLC for the demolition of old ductwork within the tertiary filter building that was abandoned and over the filter beds (difficult access). The Change Order was requested by RETTEW, 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	% Complete	Payment Approved*	Retainage and Work to Complete
2014-05	\$954,700.00	\$2,411.00	\$505,363.00	52.8%	\$480,094.85	\$477,016.15



<b>2014-06</b>	\$198,500.00	-	\$138,391.00	69.7%	\$124,551.90	\$73,948.10
<b>2014-07</b>	\$121,700.00	(\$2,592.00)	\$101,615.55	85.3%	\$96,534.77	\$22,573.23

\*Inclusive of Recommended Payment for this Board Report

Membrane Procurement Contract (2014-08):

- RETTEW provided Executed Contract Documents to GCS Water Purification, LLC (Toray) in the amount of \$158,995.00 for Contract 2014-08. A Preconstruction Conference was held February 16<sup>th</sup>, submittals have been provided, and the membranes should arrive in April after commissioning and startup of the Ozone System.

#### 6.8 Executive Director's Report

Mr. Miller had nothing further to add.

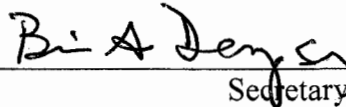
#### 7. Other Business

#### 8. Adjournment

The meeting was adjourned at 5:45 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY



Secretary/Assistant Secretary