MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
Regular Meeting – February 17, 2016

1. Call to Order

Mr. Lapinski, Vice Chairman, called the scheduled meeting of the University Area Joint Authority to order at 4:00 p.m. Wednesday, February 17, 2016. The meeting was held in the Board Room in the office of the Authority with the following in attendance: Messrs. Dietz, Ebaugh, Lapinski, McShea, Nucciarone and Spac; Cory Miller, Executive Director, Dave Smith, Assistant Executive Director; Art Brant, Plant Superintendent; Mark Harter, Collection System Superintendent; Jason Brown, Project Manager; David Gaines, Solicitor; Dave Swisher and Ben Burns, Consulting Engineers; Jason Wert, RETTEW; Jim May, COG; Amy Kerner, State College Borough Engineer; Cristin Mitchell, Laura Dininni and Kathy Wheeler, Recording Secretary.

2. Reading of the Minutes

2.1 UAJA Regular Meeting – January 20, 2016

UAJA Meeting Minutes Approved

A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve the minutes of the UAJA meeting held on January 20, 2016 as submitted. The motion passed unanimously.

3. Public Comment

None.

4. Old Business

4.1 Nutrient Credits/Offsets For New Developments

When the Chesapeake Bay Tributary Strategy was adopted by Pennsylvania, All treatment plants within the Chesapeake Bay watershed received mass loading limits for Nitrogen and Phosphorus. Unlike concentration limits, mass loading limits are fixed regardless of the quantity or quality of water being treated at the plant.

Because the sewage arriving at the UAJA plant is Carbon deficient, all of the available nutrient treatment capacity is used up treating current flows. UAJA has been adding Carbon for several years to allow the activated sludge process to remove more Nitrogen. Adding Carbon has a direct cost in the purchase price of the Carbon, but also makes solids handling more costly. While the plant has considerable hydraulic capacity and organic capacity, we are completely out of Nitrogen capacity.

Each DEP Planning Module requires UAJA to commit to meeting the requirements of the tributary strategy. The wording in the planning module is as follows:

The proposed project result in a new or increased discharge of sewage into a tributary to the Chesapeake Bay. This proposal for a new sewage treatment facility or new flows to an existing facility includes total nitrogen and total phosphorus in the following amounts: _____ pounds of TN per year, and _____ pounds of TP per year. Based on the process design and effluent limits, the total nitrogen treatment capacity of the wastewater treatment facility is _____ pounds per year and the total phosphorus capacity is _____ pounds per year as determined by the wastewater treatment facility permitee. The permitee has determined that the additional TN and TP to be contributed by this project ***(as modified by credits and/or offsets to***

be provided) *will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached.*

The Centre Region COG, at the request of UAJA, is to work with UAJA to develop a nutrient policy for the region. The reason that the Centre Region municipalities are involved in developing the policy is that Act 537 makes sewer capacity the responsibility of the municipalities.

In any other matter of capacity, when UAJA runs out of capacity DEP would issue a connection prohibition. Nutrient capacity is different, because there are ways beyond actual plant capacity for nutrient requirements to be met (credits and/or offsets). Since UAJA is out of nutrient capacity it is the COG's responsibility to define a solution, which most likely will be passed on to UAJA to implement.

To date, UAJA has absorbed this requirement. The cost of nutrient credits was low. With the DEP "reboot" of the tributary strategy, the availability of future Nitrogen and Phosphorus credits and offsets is reduced. It is likely that Pennsylvania will not meet its milestones with EPA, and thus it is possible that EPA will require treatment plants to treat to "limit of technology", which will effectively cut our Nitrogen and Phosphorus mass limits in half. The continued practice of absorbing nutrient capacity needs for new customers is eventually going to result in rate increases.

UAJA has, for more than 15 years, strived to insulate existing rate payers from the affects of new connections. The tapping fee was put in place and is continuously adjusted to ensure that new connections pay their own way. As a result, the quarterly rates remain reasonable.

To continue this practice, it is apparent that something needs to be done about the nutrients. To keep from getting further in the hole, UAJA should begin requiring developers proposing new developments to provide nutrient credits or offsets to UAJA to completely meet this requirement.

It is possible that the regional policy may result in the developers providing only a portion of the credits and offsets, or none at all. The municipalities of COG may collectively or individually decide on a different system where someone other than the developer provides the credits or offsets. Until the regional policy is adopted, it is prudent for UAJA to place that burden on the developer, as implied by DEP.

Recommendation: Adopt a policy requiring any proposed development that has not submitted final sewer design drawings to UAJA be required to provide nutrient offsets and/or credits to UAJA prior to UAJA approving the final design.

Policy for Nutrient Credits/Offsets For New Developments Approved	A motion was made by Mr. Ebaugh, seconded by Mr. Dietz, to instruct staff to suspend service approval for any proposed development that have not submitted final sewer design drawings to the Authority except for those presented at this meeting. The motion passed unanimously.

5. New Business

5.1 Final Design: The Village at Penn State, Phase 16

Final design drawings for The Village at Penn State, Phase 16 sewer extension

(Patton Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 16 EDUs of single family homes. The review comments have been addressed.

Final Design: The Village at Penn State, Phase 16 Approved	A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the Final Design: The Village at Penn State Phase 16 to serve 16 EDU's of single family homes. The motion passed unanimously.

5.2 Final Design: Rocky Ridge, Sections 3&4

Final design drawings for Rocky Ridge, Sections 3&4 sewer extension (Harris Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 46 EDUs of single family homes. The review comments have been addressed.

Final Design: Rockey Ridge Sections 3 & 4 Approved	A motion was made by Mr. McShea, seconded by Mr. Lapinski, to approve the Final Design: Rockey Ridge Sections 3&4 46 EDU's of single family homes. The motion passed unanimously.

5.3 Requisitions

BRIF #208	Dale Summit Acquisitions February 2016 Lease Payment	$25,000.00
BRIF #209	Land Studies Slab Cabin Plan	$9,600.00
BRIF #210	HRG Odor Control Engineering	$325.00
BRIF #211	Rettew Centrifuge Control Eng	$1,302.60

Requisitions Approved	A motion was made by Mr. Nucciarone, seconded by Mr. McShea, to approve the BRIF Requisitions #208-211. The motion passed unanimously.

Revenue #142	Debt Service, Operating and Maintenance Expenses	$1,000,000.00

Requisitions Approved	A motion was made by Mr. McShea, seconded by Mr. Dietz, to approve the Revenue Fund Requisition #142. 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 January 31, 2016.

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

	Aug. 2015	Sep. 2015	Oct. 2015	Nov. 2015	Dec. 2015	Jan. 2016
Production	517 cu/yds.	646 cu/yds.	764 cu/yds.	898 cu/yds.	962 cu/yds.	927 cu/yds.
YTD. Production	5,557 cu/yds.	6,203 cu/yds.	6,967 cu/yds.	7,865 cu/yds.	8,827 cu/yds.	927 cu/yds.
Distribution	540 cu/yds.	707 cu/yds.	598 cu/yds.	844 cu/yds.	439 cu/yds.	424 cu/yds.
YTD. Distribution	6,269 cu/yds.	6,976 cu/yds.	7,574 cu/yds.	8,418 cu/yds.	8,857 cu/yds.	424 cu/yds.
Immediate Sale	1,066 cu/yds.	877 cu/yds.	925 cu/yds.	845 cu/yds.	1,304 cu/yds.	1,842 cu/yds.
Currently in Storage	1,583 cu/yds.	1,523 cu/yds.	1,689 cu/yds.	1,743 cu/yds.	2,266 cu/yds.	2,769 cu/yds.

SEPTAGE OPERATIONS

	4,700 gals.	0 gals.	3,000 gals.	0 gals.	0 gals.	0 gals.
Res./Comm.	110,000 gals.	0 gals.	162,500 gals.	0 gals.	0 gals.	0 gals.
Hawbaker	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	4,657.89 lbs/solids
CH/Potter	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	1,517.88 lbs/solids
Port Matilda	350.28 lbs/solids	583.80 lbs/solids	350.28 lbs/solids	400.32 lbs/solids	0 lbs/solids	1,000.80 lbs/solids
Huston Twp.	154,200 gals.	70,000 gals.	222,500 gals.	62,500 gals.	72,500 gals.	61,500 gals.
Total Flow	4,700 gals.	0 gals.	3,000 gals.	0 gals.	0 gals.	0 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 January was 4.32mgd with the average for the month being 4.47mgd. The average monthly **influent** flow was 5.54mgd. There were no inspections of the Plant by DEP; however there was an inspection of the Wetlands.
Treatment units on line are as follows: primary clarifiers #4, #5and #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:

	Jan-16	YTD
Best Western	23,000	23,000
Centre Hills	0	0
Cintas	693,000	693,000
Red Line	884,000	884,000
Uaja Wetland	2,377,000	2,377,000
Wetland Vault	376,000	376,000
Kissingers	1,082,000	1,082,000
Stewarts	0	0
TOTAL	5,435,000	5,435,000

Plant Effl. Temp	Wetland Effl. Temp.
Jan-16	Jan-16
55.6	57.1

Plant Maintenance

- Repacked WAS Pump #3.
- Rebuilt a Landia mixer for the aeration basins.
- Replaced the motor in Primary Air-Compressor #1.
- Drained the soaker lines at GDK Wetlands.
- Retrofitted a cooling fan for RO Feed pump #2.
- Replaced the PRV on the air storage tank in AWT.
- Sent an RO membrane out for autopsy. Still awaiting results as of 2/19/16.
- Replaced the bearing and seal assembly in Primary pump #3.
- Replaced 7 of 9 main power fuses in centrifuge #2. Lepley Electric will be in to test main power cables from switch gear to the switch board.
- Repaired the unloading chain on Knight Mixer #2.
- Replaced the thermocouple for Bay 17 Zone E.
- Replaced the drive belts and pulleys in MAU-1301.

6.5 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:

Installed (1) new lateral – 134 Pencek Lane.
Mainline Cleaning – (159) manholes Inspected / (16,217) ft. of mainline cleaned.
Mainline Televising for 2016 Township Paving projects (13,770.9) ft. televised (99) manholes inspected.

Brushing of the back lot mainline R.O.W. in the Boalsburg area.
Casting repairs (8) Boalsburg Interceptor, Big Hollow Air release, and Brookside subdivision.
Continued vehicle and small equipment maintenance.

Lift Station Maintenance:
Changed oil at all lift stations.
Repaired (3) E-One Pump Cores.
Cleaned (19) lift station Wet Wells.
Installed new control switch at Graysdale 2B lift station.
Installed new contacts, coil, and capacitors at St.Ives lift station

NEXT MONTH PROJECTS:

Repairing trench line over Toftrees back lot sewer.
Grouting of back lot main sewers in Boalsburg area.
Brushing of the back lot mainline R.O.W.

Inspection: Final As-Builts Approved: None

Mainline Construction:
a. Fieldstone Phase 3 – construction is 100% complete / awaiting As-Builts.
b. North Atherton Place – construction is approximately 95% complete.
c. Stearns Crossing Ph. 8 – Started construction.

New Connections:

a.	Single-Family Residential	11	c.	Commercial	1
b.	Multi-Family Residential	0	d.	Non-Residential	0
				TOTAL	**12**

PA One-Calls Responded to 1/1-31/16: 281

6.6 Engineer's Report

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

Retainer

- Completing Chapter 94 Report tasks; pump station capacities and map.
- Pursuant to the requirements of the NPDES Permit, the annual inspection for discharges of stormwater will be scheduled for March.

Big Hollow Interceptor Mitigation Projects

- Final copies of the record drawings along with the electronic documents were submitted.

Odor Control Study

- Prepared a scope memorandum for the Basis of Design and discussed the next steps to advance project development with staff.

Standard Specifications and Details Update

- Final draft specifications have been delivered to the Authority for distribution.
- Suggested revisions to the policy document (00700) have been submitted to staff for review.

Act 57 Study

- A conference call was held on February 9th to discuss the Act 57 study and a draft report has been provided to staff.

Big Hollow Force Main Evaluation

- KCF Tech modeled and recommended two possible solutions:
  - Install a tank at the highest force main elevation to simulate an open to atmosphere condition
  - Install a back pressure device to decrease vacuum conditions at high points
- HRG is coordinating with Mark to remove the 20" flange at the high point to create an open to atmosphere condition.

Selder's Circle Record Drawings
A proposal will be provided for this scope

Overlook Heights Sanitary Sewer Replacement: Suburban Avenue Backlot
A revised proposal for engineering services will submitted based on the latest alignment revisions.

Scott Road Force Main Record Drawings
The construction crew's field notes have been received. A proposal to prepare the record drawing for the replacement force main will be prepared and submitted.

Meeks Lane Pump Station and Force Main Design
An engineering proposal has been submitted to prepare a Basis of Design report for the conceptualized Meeks Lane Pump Station and Force Main.

Developer Plan Reviews:

- Two (2) design plan reviews were completed since the last board meeting and are recommended for approval. (The Village at PSU - Phase 16, and Rockey Ridge - Sections 3 & 4).

6.7 Construction Report

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

The construction engineer had nothing to add at this time.

6.8 Executive Director's Report

Right to Know Request
An additional right to know request has been received concerning material related to tapping fee calculation, revenues and expenses related to the beneficial reuse project, the cost effectiveness of UAJA using its own workforce and equipment to construct sewer lines and beneficial reuse lines instead of bidding construction to private contractors, and salaries and benefits of employees. A copy of the request is attached to the agenda report.

Grays Woods Pump Station Elimination

The latest route was presented to Patton Township and received favorably. A public meeting is to be scheduled. A basis of design study will be authorized to ensure that the pump station and force main are technically feasible.

Beneficial Reuse extension to Mountainview
The Public Services and Environmental Committee of COG discussed the alternative and has forwarded it to the Executive Committee as a proposed agenda item for the February 22, 2016 COG General Forum meeting.

Water Resources Monitoring Project
Two letters were received from WRMP thanking the Board for their contributions toward the monitoring projects and offering to make a presentation and answer questions. The board should advise staff of when a presentation is desired and what topics are of interest to the board.

Refunding Series 2010A Bonds
The refunding has been priced, resulting in a net savings to UAJA of $617,479.

7. Other Business

8. Executive Session

Executive Session Approved	A motion was made by Mr. Ebaugh, seconded by Mr. McShea, to adjourn to executive session at 4:53 p.m. The motion passed unanimously.

9. Adjournment
The meeting was adjourned at 4:53 p.m.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

Secretary/Assistant Secretary