

AT & T Conditional Use Request
February 18, 2002

The Conditional Use hearing for AT & T Wireless was called to order at 7:30 p.m. by the Chairman, Richard Lahr with member John Elnitski present. Mr. Breon was absent. Also in attendance were Doug Weikel, Clair Stem, Tom Rishel, Marjorie Plosky, Mike Joseph, Jon Eich, John Maylie, Gerald Rogers, Connie Peters, Robert Peters, Steve Nichols, Mary Nichols, Bonnie Moerschbacher, Helen Alters and Renee Swancer.

It was noted that the Board is in receipt of a letter dated February 15, 2002, from Matthew Crème, Jr., attorney for AT & T Wireless Services, stating that AT & T is withdrawing their pending application before the Board.

Mr. Lahr noted that this application is hereby withdrawn and no decision will be rendered.

Adjournment time 7:36 p.m.

Sharon Royer, Sec.

Polymics Conditional Use Hearing
February 18, 2002

The Conditional Use hearing for Polymics was called to order at 7:39 p.m. by the Chairman, Richard Lahr with member John Elnitski present. Mr. Breon was absent. Also in attendance were Doug Weikel, Clair Stem, Tom Rishel, Marjorie Plosky, Mike Joseph, Jon Eich, John Maylie, Gerald Rogers, Connie Peters, Robert Peters, Steve Nichols, Mary Nichols, Bonnie Moerschbacher, Helen Alters and Renee Swancer.

It was noted that a decision will not be rendered on this hearing until the March 18, 2002, meeting.

Adjournment time 7:40 p.m.

Sharon Royer, Sec.

UAJA Conditional Use Hearing
February 18, 2002

The Conditional Use hearing for the University Area Joint Authority was called to order at 7:41 p.m. by the Chairman, Richard Lahr with member John Elnitski present. Mr. Breon was absent. Also in attendance were Doug Weikel, Clair Stem, Tom Rishel, Marjorie Plosky, Mike Joseph, Jon Eich, John Maylie, Gerald Rogers, Connie Peters, Robert Peters, Steve Nichols, Mary Nichols, Bonnie Moerschbacher, Helen Alters and Renee Swancer.

Due to the technical nature of this project, the project narrative prepared by HRG for the UAJA Beneficial Reuse Project has been incorporated into these minutes as follows:



PROJECT NARRATIVE

Starting in the mid-1990's, the Centre Region began to explore options for the successful treatment and disposal of wastewater predicted to occur from continued growth in and around State College, PA. Out of planning, the project has evolved from a classic wastewater treatment solution to an integrated and innovative Watershed Management Program. This program, known as Beneficial Reuse, allows for the collection and treatment of wastewater with the ultimate goal of returning pure water to the source aquifer. The planning and testing for Beneficial Reuse has been intensive and detailed due to the complex issues associated with the unique environmental characteristics of the Centre Region, most notably the Spring Creek watershed.

The Beneficial Reuse alternative incorporates expansion and improvements to the existing UAJA wastewater treatment plant. Additionally, advanced water treatment, transmission, distribution, and storage system components for the Beneficial Reuse water will be constructed.

As detailed in the municipally adopted and approved Act 537 Plan for the Centre Region, the Beneficial Reuse Project is composed of three phases. The phases and components are as follows:

Phase I (2003 Operation)

- Expansion and modification to the UAJA Spring Creek Water Pollution Control Facility for the projected 9.0 Million Gallons per Day (MGD) wastewater flow
- Construction of 0.75 MGD of microfiltration and 0.75 MGD of reverse osmosis or nanofiltration and 0.75 MGD of disinfection for production of reuse water.
- Construction of a reuse water transmission main to the commercial and industrial customers of the Dale Summit Industrial Park.

Phase II (2008 Operation)

- Construction of an additional 0.75 MGD (1.50 MGD total) of microfiltration and advanced disinfection
- Construction of an additional 0.75 MGD (1.50 MGD total) of reverse osmosis or nanofiltration.
- Extend the transmission main to the intersection of Branch Road and South Atherton Street with stream augmentation site on Slab Cabin Run (**Outfall 002**).

Phase III (2013 Operation)

- Construction of an additional 1.50 MGD (3.00 MGD total) of microfiltration and advanced disinfection
- Construction of an additional 1.50 MGD (3.00 MGD total) of reverse osmosis or nanofiltration.
- Extend the transmission corridor to the vicinity of Branch Road and SR 45 with additional stream augmentation site on Slab Cabin Run (**Outfall 003**).

The Beneficial Reuse Project will consist of three phases to be implemented over 13 years. The first phase will consist of the modifications and additions to the existing wastewater treatment plant to a 9.0-MGD capacity, including a doubling of the composting facility. In addition, the building facilities will be constructed for the entire AWT treatment train, along with the first 0.75-MGD of membrane treatment and advanced disinfection. Subsequent phases of the project will increase membrane capacity and extend the recycled water distribution system. The exact improvements to be completed in each phase are shown in Tables 1, 2 and 3.



UAJA Beneficial Reuse Project
Benner Township Conditional Use

Table 1- Phase I Improvements and Additions

Liquid Treatment

Headworks

Installation of New Filter Screen
Installation of Area-Velocity Meter
Installation of New Grit Collection System

Primary Clarifiers

New Splitter Box
Addition of Two New Clarifiers
Sludge Pumping System Improvements
Scum Pumping System Improvements
New Compressor Building

Biological Treatment Tanks

New Splitter Box
New A2O Biological Nutrient Removal System
New Blowers and Control System
New Drain Station

Final Clarifiers

Addition of One Clarifier
Structural Modifications to Clarifiers
RAS Pumping System Improvements
WAS Pumping System Improvements

Chemical Addition Systems

Alum Storage and Feed System Relocation

Tertiary Filtration

Backwash Pumping System Improvements
Control Valve Replacement
Control Panel Replacement

Disinfection

New Ultraviolet Light Disinfection

Biosolid Treatment

Aerobic Sludge Holding

Piping Modifications

Sludge Dewatering

Two New Centrifuges
New Polymer Feed System
Conveyor Modifications

Composting

Addition of 6 Composting Bays
New Amendment Building
New Mixing Equipment
Air Handling Modifications
New Biofilter

Advanced Water Treatment

AWT Feed Pump Station

Two New Feed Pumps
Two New Microscreens

Microfiltration

Two 0.700 MGD Units
CIP System
Backwash System
Two 0.800 MGD Units

Reverse Osmosis/Nanofiltration

Two 0.800 MGD Units
CIP System
Stabilization System
Ultraviolet Light Disinfection
On-Site Hypochlorite Generation
Hypochlorite Disinfection

Storage & Transmission

Integral 0.75 Mgal Reservoir
Two New Feed Pumps
Transmission Line (7,500 l.f.)

Table 2- Phase II Improvements and Additions

Advanced Water Treatment

AWT Feed Pump Station

One New Feed Pump
One New Microscreen

Microfiltration

Two 0.700 MGD Units

Reverse Osmosis/Nanofiltration

One 0.800 MGD Unit

Storage & Transmission

One 3.0 Mgal Ground Reservoir
Two New Feed Pumps
Transmission Line (7,500 l.f.)

Table 3- Phase III Improvements and Additions

Advanced Water Treatment

AWT Feed Pump Station

One New Feed Pump
One New Microscreen

Microfiltration

Two 0.700 MGD Units

Reverse Osmosis/Nanofiltration

One 0.800 MGD Unit

Storage & Transmission

Two New Feed Pumps
Transmission Line (7,500 l.f.)



PROPOSED WATER QUALITY

With the addition of Biological Nutrient Removal (BNR) at the UAJA treatment facility, Total Nitrogen is predicted to be less than 5 mg/l in the effluent to Spring Creek (**Outfall 001**). All other discharge parameters will remain constant, with the exception of Total Dissolved Solids (TDS). With the incorporation of brine from the Advanced Water Treatment facilities into the raw sewage via the headworks return flow, the ambient TDS to the facility will be elevated from approximately 650 mg/l to approximately 900 mg/l. While this is still below the established limit of 1,500 mg/l, there is assumed to be some degradation of TDS within the activated sludge process that may reduce the TDS from the projected 900 mg/l. Secondly, pending the results of the Phase II Pilot Testing, Nanofilters may be installed at the AWT facilities in lieu of true Reverse Osmosis elements. If this occurs, the return TDS load to the headworks of the facility, and ultimately Spring Creek, will be further lessened.

The projected water quality for the future Outfalls (002 and 003) has been determined through an extended pilot testing at UAJA. The Phase I Pilot Test was conducted for approximately three months and produced consistent data on the projected water quality for the proposed Stream Augmentation. The results were very favorable and indicated that the water quality from the AWT facilities will *meet or exceed all Pennsylvania Safe Drinking Water Act Parameters*.

In addition, a surrogate parameter for other chemicals was chosen in Total Organic Carbon (TOC). A limit of 1.0 mg/l TOC was established by the UAJA Project Management Team, and appears to be achievable with Reverse Osmosis. However, a second round of Pilot Testing (Phase II) is being conducted to determine whether Nanofiltration can reliably produce a TOC of less than 1.0 mg/l. In all cases though, the UAJA recycled water will meet or exceed PA SDWA Standards and a 1.0 mg/l of TOC for Outfalls 002 and 003.

CONDITIONAL USE REQUIREMENTS

In compliance with Ordinance No. 70 as modified by Ordinance No. 81, UAJA acknowledges that they have the burden of proving compliance with the following conditions:

1. *The suitability of the property for the desired use.*
The property already contains the Spring Creek Pollution Control Facility. The site was originally chosen for a wastewater treatment plant in the 1960's with the Spring Creek Pollution Control Facility was originally constructed in 1967 with enough land for future expansion. Over the years, the Facility has expanded 5 times to further treat the wastewater of the region. The proposed project will include an expansion of this facility.
2. *The proposed use will not adversely effect existing streets and highways or traffic levels.*
The access to the property is through a private road, constructed, owned and maintained by UAJA. This road, Spring Valley Road, accesses Shiloh Road, which was just upgraded by PENNDOT to accommodate future traffic from I-99. Traffic volumes to and from UAJA's property will not appreciably increase after this project and therefore, will not have an adverse impact on existing streets and highways.
3. *The proposed use will not adversely effect the availability of parking in the immediate area.*
The proposed project will contain sufficient parking on UAJA's property. Therefore, the



proposed use will not adversely effect the availability of parking in the immediate area.

4. *The proposed use will not adversely effect existing or proposed public water and sewer, transportation, police and fire protection, public recreation, school facilities, and any other public organizations or systems.*
The proposed use only enhances existing or proposed public water and sewer, transportation, police and fire protection, public recreation, school facilities, and any other public organizations or systems. UAJA, as a municipal organization itself, has a history of supporting the community.
5. *The proposed use will not adversely effect on the health and safety of the citizens of the Township or present a danger such as fire, explosion, electrocution, pollution, asphyxiation, or other similar dangers.*
UAJA's proposed facility is designed to comply with all applicable codes concerning fire, explosion, electrocution, pollution, asphyxiation, or other similar dangers.
6. *The proposed use will not adversely effect adjacent properties, or injure or detract from the use or enjoyment or value of the adjacent properties.*
The use of the property has not and will not change. With the construction of the Beneficial Reuse Project, the facility will be enhanced and will be among the top pollution control facilities in the United States.
7. *The proposed use will be compatible with the Township Comprehensive Plan.*
The current use of the UAJA Spring Creek Pollution Control Facility is consistent with Benner Township's 1992 Comprehensive Plan, which specifically shows UAJA's facility.
8. *The proposed use shall be in the best interest of the Township, and for the convenience of the community and shall not adversely effect the general welfare of the community.*
UAJA's Spring Creek Pollution Control Facility was constructed in 1967 and upgraded throughout the years. A large upgrade of the facility occurred in 1989 in which Benner Township granted a conditional use. The existing and proposed use remains the same – to treat sanitary sewage prior to discharge into the watershed. The current and proposed use is consistent with the stated intent of the Stream Valley District (ref. Art. II, Sect. 4.2.1) as UAJA's facility is perhaps the largest factor in the region that protects and retains the watershed and protects and regenerates Spring Creek for fishing.
9. *The certified notification of abutting property owners.*
Submitted with application.
10. *The certified notification of airport owners for all applications involving towers.*
Since no towers are proposed, this is not applicable.
11. *In addition to the above listed criteria, the applicant shall have the burden of proving compliance with other criteria of this ordinance.*
The proposed use will comply with all applicable sections of Ordinance No. 70, as amended by Ordinance No. 81.

Mr. Weikel noted that he is open for questions on the proposed project.

John Maylie questioned the current odor problem from the sewage plant. Will the odors increase? Mr. Weikel explained that the bio filter will be increased in size which will take care of much of the current odor problem. Mr. Weikel also noted that several areas currently open to the air will be enclosed which will also cut down on omitted odors.

Mr. Maylie also questioned why only 6 mgd would be placed into the recharge project. Why not place more into the recharge and less into the creek. Mr. Weikel noted that the creek also needs the water and that the state has mandated a certain amount of discharge from UAJA must be put into the stream.

Mr. Weikel also noted that a wetland area will be created onsite for some local recharge.

Gerald Rogers: Mr. Rogers noted that on February 1 at 8 a.m. the smell was very strong that was being omitted from the facility. Mr. Weikel noted that UAJA's work schedule is much the same as other places of businesses and that the workers probably were doing their regular routine work. Mr. Weikel noted that he knew of no instances where anything out of the ordinary happened that day.

Mr. Rogers questioned if anything would be done about noise. Mr. Weikel noted that almost all of the motors after construction is complete will be located inside buildings.

Mr. Weikel noted that bids for the project are scheduled to be opened on March 28 with construction to begin the end of May beginning of June.

With no further questions the hearing was adjourned. Mr. Lahr noted that Mr. Breon is absent tonight due to illness, however, he heard this same presentation that was given previously to the Benner Township Planning Commission. It was noted that a decision will be rendered at the Board's March 18, 2002 meeting.

Adjournment time 8:40 p.m.

PERSONS TO ADDRESS THE BOARD

Tom Rishel & Marjorie Plosky: Mr. Rishel noted that they have received a notice from the 911 that their address has been changed from Valley View Road to Jennies Gap. Mr. Rishel noted that they feel that this address change will most likely result in emergency personnel not being able to find them instead of the other way around. Discussion was held. Mr. Lahr informed Mr. Rishel that the addressing responsibility lies with the County and not the township because the Township did not adopt an ordinance. The Rishels were informed that they must work their problem out with the County.

Mary Nichols: Mrs. Nichols was present also concerning Jennies Gap Road. Mrs. Nichols noted that she owns property at the corner of Valley View and Jennies Gap Road and does not want the name of the road changed.

Helen Alters: Mrs. Alters noted that she was present to see what the Board plans to do with the bridge bids. Mr. Lahr noted that the bids will be tabled until a meeting in March so that they can be reviewed further.

MINUTES

The minutes of February 4, 2002, were presented to the Board for their review and comments. Mr. Lahr moved to approve the minutes as presented. Mr. Elnitski seconded the motion.

Vote: Mr. Elnitski - yes

Mr. Breon - absent

Mr. Lahr - yes

BILLS

The bills of February 18, 2002, were presented to the Board for their review and approval. Mr. Lahr moved to approve the bills as presented. Mr. Elnitski seconded the motion.

Vote: Mr. Elnitski - yes

Mr. Breon - absent

Mr. Lahr - yes

ENGINEER'S REPORT

Mr. Weikel went over this monthly report with the Board.

Discussion was held regarding the Traffic Maintenance Agreement with Grandview. Mr. Elnitski noted that he had a problem with point number 4 in the agreement. What about the other items that will need done and cost involved? Mr. Elnitski also noted that he didn't understand why they did not wish for the agreement to be recorded. Mrs. Swancer noted that she would check into Mr. Elnitski's concerns.

Pedestrian Bridge for Buffalo Run Community Park: Mr. Lahr moved to accept and table the following bids for the pedestrian bridge at the Buffalo Run Community Park until one of the Board's meetings in March:

Ag Com Builders:	\$24,380.00
Ameron Construction	\$19,484.00
M & E Construction	\$19,755.00
LandServ Inc.	\$20,771.00
Coleman Cosntruction Co.	\$19,670.00
Cottles Asphalt Maintenance	\$19,765.00

Mr. Elnitski seconded the motion.

Vote: Mr. Elnitski - yes

Mr. Breon - absent

Mr. Lahr - yes

ZONING OFFICER'S REPORT

Mrs. Swancer asked the Board if they had any questions regarding her written report.

Mr. Eich was present from the County to go over the boundary mapping produced by the County. Mrs. Swancer noted that the lines were not off as far as she had anticipated that they would be. Mr. Eich noted that the other township would also be receiving maps and then it would be up to the townships to decide what steps they wish to do with the information.

OLD BUSINESS

Spring Township Agreement/Boundary Change: Tabled until Spring Township has a chance to review the county mapping.

Patton Township/Benner Township Boundary: Tabled until Patton Township has a chance to review the county mapping.

Magyar Sewage Problem: Mr. Elnitski noted that he will be reviewing the documents in the file concerning this problem as well as calling the Magyars or their attorney.

Penn Eagle Traffic Signal: The additional information on the LED lights were provided to the Board for their review and consideration. After much discussion Mr. Lahr moved to have Penn Dot place out for bid the signal using the LED lights. Mr. Elnitski seconded the motion.

Vote: Mr. Elnitski - yes

Mr. Breon - absent

Mr. Lahr - yes

CORRESPONDENCE

The Board acknowledged receipt of the following correspondence:

1. Copy of letter sent to D. Chester from Robert Mix Re: Alters Claim
2. CRMPO Feb. 14, 2002 meeting packet
3. State College Borough Water Authority - water-level well measurements
4. PSATS Alert
5. Copy of letter that was sent to the Conservation District Re: Gilbert/Poorman
6. OneSource training workshops on Statewide Building Code
7. Final Vision - - Living with I-99 "What Your Community Can Do" meeting notice

Mr. Lahr moved to have Mrs. Swancer attend the OneSource training workshop on the Statewide Building Code. Mr. Elnitski seconded the motion.

Vote: Mr. Elnitski - yes

Mr. Breon - absent

Mr. Lahr - yes

NOTES

Mrs. Swancer noted that she would like to revise her previous building permit application for her garage to a 40' X 64' pole building. Mr. Lahr reviewed the documentation provided by Mrs. Swancer. Based on the information provided, Mr. Lahr issued the Swancer's building permit No. 3075.

ADJOURNMENT

The meeting was adjourned the time being 9:50 p.m.

Sharon Royer, Sec.