

**BELLEFONTE BOROUGH AUTHORITY MEETING
JULY 7, 2015**

CALL TO ORDER

The regular meeting of the Bellefonte Borough Authority was called to order at 6:00 p.m. by Authority Chair Joe Beigle in the Bellefonte Borough Municipal Building.

Pledge of Allegiance:

ROLL CALL

Members Present: Beigle, Brown, Thal, Clark, Scott

Members Excused: Badger, Halderman

Staff Present: Ralph Stewart, Borough Manager
Eric Lundy, Nittany Engineering
Bob Decker, Nittany Engineering
Bob Cook, WWTP
Matt Auman

Guests: Barry Spiegel; Greg Wendt; Greg Leininger; Judith DeHaas

APPROVAL OF MINUTES

Mr. Clark made a motion to approve the minutes of June 16, 2015. Mr. Thal seconded the motion. A voice vote was unanimous to accept the minutes as presented.

COMMUNICATIONS

ORAL

- Judith DeHaas, 305 East Pike Street, addressed the Authority because they have had either no water pressure or very little water pressure for over a year. Hers is probably the best on the street. The apartments at 301 and 303 didn't realize the pressure issue was not because of the house. If one side has pressure the other side doesn't. Mr. Englert at 315 has pressure that comes and goes also. Her daughter has the worst pressure. She lives at 319 Pike Street. They replaced her meter a while back and the man told her she didn't have much pressure. It takes seven minutes to fill a five quart kettle. There is now an apartment house that will have three new families.

Mr. Stewart stated they are aware of the problem. It has been discussed. A large leak was fixed at Mr. Englert's property on the 200 block. There was discussion about rebuilding or replacing the main in Pike Lane block by block as soon as it can be scheduled. Mr. Stewart will

send a water crew up to check for leaks. He will try to get the residents relief as soon as possible.

The line is a 1" line and it needs replaced with a bigger service line.

- Greg Leininger, Hach, Regional Sales Manager addressed the Authority regarding the Phosphorous Analyzer that Bob Cook has mentioned several times. It will be implemented at the Wastewater Treatment Plant.

Greg recently supplied the chlorine analyzers that are or will be installed at the Big Spring Pump House and the Corning Pump House.

They provided a presentation on a Phosphorus Controller.

Barry Spiegel is the Northeast Divisional Sales Manager. He runs the sales and marketing organization from Maine to Pennsylvania. Greg covers parts of Pennsylvania.

HACH has been in business since 1947 and are the leaders in water and wastewater solutions primarily focusing around analytical testing in a laboratory environment, a field environment or in a continuous matter environment within the wastewater treatment plants. They serve multiples of industries that use water and have to treat it as a wastewater product. The company was founded by Clifford and Kitty Hawk in Ames, Iowa in 1947. Everything that is done is based on chemistry, but it is kept simple. It is because of HAWK that all testing is done today.

Greg has been with HACH for nearly nine years and Barry has been with the company for 28 years. They are familiar with Bellefonte's water and wastewater facilities. Their products are actually in the facilities. Their service is to make sure the plant runs smoothly. In January there were some issues with chlorine on the drinking water side and Greg came to help solve the problem. Last year they worked with the solids and helped automate the system.

They know wastewater. They have worked with DEP to help them make sure they have the right equipment and be sure they have an optimization program. They are now working on optimization in ways that they can help customers get better.

The wastewater treatment plant has to "walk the fine line" every day. They have to process rain. If there is a drought there isn't much rain. If a big event comes into town there is more water. There is either the problem of a lot or a little water to treat. There is also a phosphorous load change. There is a phosphorous limit that must be adhered to. Bellefonte has to balance a balance of phosphorous going to the biosolids. If the chemical is increased it all goes to the biosolids. It solves the problem for DEP but now there is a lot of phosphorous in the biosolids and a lot of chemicals are used. If the phosphorous is all taken out of the water then the nitrogen, carbon and phosphorous balance is changed.

They are on the agenda because they have experience in this area. They have an optimization strategy. They will insure that there is plant compliance, even during high loadings, low flow, or whatever challenges Bellefonte sees. They have a successful track record of being stewards of the environment. Also, instead of cranking up the chemical they will make sure Bellefonte efficiently uses resources. This will protect the biosolids. It will also save money on chemicals. Nutrient credit situations are changing in October, which means a lot of the credits coming off the books and able to be sold.

Barry feels like they act more as consultants to the customer base than sales people trying to push product. He gave examples of recent success stories that they have had.

The flow meter comes from the existing flow meter in the plant so it is continually being brought back to their control. It takes a signal from the flow meter. The warranty on the system

is one-year. There will be eyes on the system every single day. The technology has been used approximately five years. The biggest problem is improper installation and application where it is located. They learned that customers that didn't buy the service portion of the offering were usually the biggest headaches the company has had. The service is included in the price. The data that is recorded goes to the controller and also into the SCADA system where they are able to see the data. There are calibration standards in the instrument that can be programmed for how often you want it to be self calibrated. They will train the Borough people on maintenance things that will need to be done and to be the eyes and ears of the system.

- Greg Wendt addressed the Authority. He and Mr. Stewart talked after the last meeting and he took the questions the Authority members had and revised the term sheet so it didn't come across so strong from the bank side. They look at it as a partnership and not a dictatorship on behalf of the bank. They want to work with the Authority on the project and work with the engineering firm to make things come together. Initially there was a 24-month interest only period and then it would convert into a fixed term at that point. He suggests that once everything gets approved the Authority get the loan documents closed conditioned on receipt of all the permits. That would lock the interest rate in.

On page three, as a banker, Mr. Wendt put things that would help him understand the relationship between the Authority and SBWJA. It is important to the operation of the Authority and construction project and how the money will flow in and out. He took out the bullet point that the bank needed to approve all change orders.

WRITTEN

- None.

COMMITTEE REPORTS

Finance Committee – There was no report.

- Mr. Stewart stated at the last meeting it was suggested that the Authority to pursue other proposals to compare with the one from Mr. Wendt. Martha, who does purchasing, was asked to get in contact with banks that the Borough typically does business with. There is an appointment tomorrow with First National and there will be other appointments. Mr. Stewart plans to discuss the same terms. This information will be available at the next Authority meeting.

If the Authority does an upgrade or a capital project there is an agreement from 1976 that says SBWJA is responsible for 42% of the cost.

ENGINEER'S REPORT:

Water Report - by Eric Lundy

Corning Pump House - Pump Upgrades - Strouse Electric, Inc. bid was received in the amount of \$159,415.00. NEA reviewed the bid and determined it was complete per the contract requirements. NEA recommends award to Strouse Electric. Strouse Electric's bid had indicated

a 70 day lead item for the electrical equipment. If the project was awarded in July Strouse Electric may be able to mobilize around the beginning of September.

NEA met with Borough staff on 6/30/15 to review concerns regarding the transfer switch connection at the Bellefonte Corning Pump House. NEA then met with Cleveland Brothers Equipment co. to review leasing or rental generator options. NEA is reviewing connection types with Cleveland Brothers related to a 500 KW generator. This may be revised from what Strouse Electric bid and may result in a reduced equipment cost. any revisions would need to be updated on the building permit drawings for Centre Region Code's review.

Bellefonte has been issued the current pricing from V-systems related to the proposed pump motors. Bellefonte needs to review the pump motor options and issue a Purchase Order.

The electrical engineer, Dan Mattern, will be completing a pump/vfd optimization study to determine if there is an operation point on the new pumps that would result in the most efficient use of the pump from a power consumption standpoint.

- Mr. Brown made a motion for approval of the contract with Strouse Electric. Mr. Clark seconded the motion. A voice vote was unanimous.

Big Spring Cover Replacement - He will be contacting DEP regarding the option of replacing the cover in-kind with a sprinkler system spraying water onto the cover and is awaiting input from the permitting section at DEP. The permits chief is out of the office until July 10th.

Restek Fitness Center Water Service Review - Provided Authority specifications and design policy information to Keller engineer's (Mike MacNamara) for proposed domestic and fire line services for proposed fitness center.

Corning Pump House - Chlorine Backflow - Jason Little, NEA, met with Matt, Ralph and representatives of Coca-Cola to review the issue with the chlorine backflow into the spring and it appears that this issue has been addressed by implementing the new control system for the actuated solenoid valve on the chlorine feed line. Other options were discussed with Coca-Cola and Coca-Cola will be reviewing these options as well as the current set-up and will communicate with Ralph with their input.

Matt Auman -

6/18/15 - Met with NEA and Coke on the possibility of a check valve in line at the Corning Pump House

6/22 - 7/2 - Marts controls installed the new SCADA system

6/30/15 - Milliken was finally notified to send us our new check valve for the Corning Pump House (should be here by the end of the week)

6/30/15 - Received new pressure relief valve for pump #1 at Corning Pump House

6/30 - 7/2 - Replaced two 4" valves and lines, 12" main (about 15 feet) at the intersection of Lamb & Spring Street. We also moved and replaced the fire hydrant.

7/8 - 7/10 - We will start to replace the water main going to 711 Locust Lane

7/15/15 - Stitzer Crane Service will be at the reservoir to help us remove and replace the check valves.

Sewer Report - by Bob Decker

JCI Project Consultation - NEA has helped develop a third party energy contract provider to review the JCI contract with BBA.

Mr. Stewart suggested having Tom Schrack write a letter to JCI and request a copy of the report they have regarding the savings for the Borough.

Facility SCADA Controls - Maintenance Contract - NEA coordinated a SCADA facility controls maintenance scope to standardize system support. The scope of work will establish response times, maintenance reports and minor software updates as required.

Phosphorous Treatment - The plant is experiencing problems with varying loading conditions for phosphorous. The effluent phosphorous must not exceed the permit condition and at the same time not be excessively removed into the effluent sludge. The facility has to maintain a narrow range for the effluent which could be managed much more effectively by probes and controls equipment. The new equipment would have the ability to reduce chemical consumption and help to pay for the improvement over time.

Facility Upgrade Response - NEA is preparing for the upcoming meeting with SBWJA. This effort has been required based on continued misinformation that has been presented.

WWTP Upgrade Project -

(Preliminary Design) NEA has begun the Preliminary Design process on the WWTP upgrade. With that said, we have met with BBA staff to finalize and update the project scope.

(Pilot/Bench Scale Evaluation) NEA is determining a Pilot/Bench Scale evaluation of the BioMAG process and its application for the BBA treatment facility to help confirm process results.

Bob Cook -

The bulk water sales for June was 450,000 gallons.

June 1st - issued University Park Airport the revised Wastewater Constitution Permit.

June 2nd - notified University Park of another violation

June 3rd - delivered stamped drawings and building permit to Spring Township for the roof in the red brick building.

June 11th - picked up building permit from Spring Township

June 17th - contractor returned calls about roof project. Will be there mid-July.

June 19th - the annual Wet Test was conducted.

June 26th - Ralph was given an updated list of the (?)

Bob also had a list of equipment issues they dealt with over the past month. It was suggested that this list of equipment issues be shared with SBWJA.

OLD BUSINESS

- Penn Eagle Pump Station had the plumbing piping configuration changed. A picture of that was sent to the engineer that Bill worked with and it was then forwarded to DEP so it is in the process of getting the permit.

- Calls are in to the sales rep at Cleveland Brothers regarding a generator. It will be compatible with what the Authority already has.

- Some amendments were recently approved in the local limits and pre-treatment fees. That information was sent to SBWJA and they are in the process of getting it approved and returned.

- Martz Technologies is going to do a walk-through at the WWTP on Friday morning to see what type of service agreement/arrangement they can provide.

NEW BUSINESS

- US Master Consulting Services Agreement - Authority members should review this and address any comments to Mr. Stewart.

- A magazine article was provided to members entitled "*Feds on fluoride: time to cut back*".

- A magazine article was provided to members entitled "*Will the Nutrient Credit Market Suffer Supply Shortage?*"

ADJOURNMENT

- Mr. Brown made a motion to adjourn the July 7, 2015 meeting of the Bellefonte Borough Authority at 7:43 p.m. Mr. Thal seconded the motion. A voice vote was unanimous.