

**South Sangamon Water Commission**  
Minutes of Regular Meeting of the Board of Commissioners  
November 19, 2013; 8:30 a.m.  
Water Plant, 9199 Buckhart Road, Rochester, Illinois

**Commissioners:**

Present: Del McCord, Joel Sander

Absent: Craig Hall

Quorum: yes

**Others Present:**

Dan Held (SSWC), Shane Hill (Chatham), John Myers (Rabin & Myers), Max Middendorf (MECO Engineering), Laura VanProyen (SSWC), Mike Williamsen (Chatham)

**Proceedings:**

- Meeting was called to order at 8:32 a.m. by Chairman, Del McCord and roll taken.

MOTION by McCord, second by Sander to approve the October 15, 2013 meeting minutes as presented.

Voice vote: Motion carried.

**Financial Report:**

- Laura VanProyen presented the financial reports for October 31, 2013 which showed an operating account balance of \$316,847.74. An additional balance sheet dated November 18 included an updated balance of \$197,004.76.

- The net 2013 CRP receipts in the amount \$18,632.00 were deposited November 18 bringing that account balance to \$37,283.93.

**Approval of Open Invoices for Payment:**

- VanProyen distributed a list of open payables totaling \$125,538.46, a recently received but old invoice for \$1,207.00 from Brotcke Well & Pump and Dan's expense report for September 16 through November 15, 2013 in the amount of \$510.60 for approval as well as a list of items paid since the last meeting for utility and chemical bills with early due dates totaling \$.

- John Myers and Dan Held continue negotiations with Rodney Womack regarding a settlement amount for the W-D Right of Way bill. Held suggested we offer \$7,500 as payment for the work that is completed and considering the broken hydrant.

- Dan Held recommended holding both open invoices from Brotcke until he can discuss them with the vendor.

MOTION by Sander, second by McCord to approve the open payables list less the \$15,000 due to W-D Right of Way and the \$2,003 due to Brotcke Well & Pump plus Dan's expense reimbursement of \$510.60 for payment at this time – a total of \$109,046.06.

Roll call vote: McCord – yes Sander – yes Motion carried.

**Retail Water Rate:**

MOTION by McCord, second by Sander to place Ordinance 13-09, An Ordinance Establishing Retail Water Rates on the floor for passage.

- Myers stated the increases included were \$1.00 on the monthly minimum (now \$31.00), \$1.00 per 1,000 gallon in excess of the 2,000 gallon minimum (now 8.25) and \$1.00 per unit on bulk water (now \$9.00) for future sales if the dispensing unit is repaired.

Roll call vote: McCord – yes Sander – yes Motion carried.

**Access Easement:**

- Myers explained the Sangamon County Soil and Water Conservation District needs to get across our property to have access to the Szymanski CRP property.

MOTION by Sander, second by McCord to approve Ordinance 13-10, An Ordinance Authorizing an Access Easement for the Sangamon County Soil and Water Conservation District.

Roll call vote: McCord – yes Sander – yes Motion carried.

**Agreement with New Berlin with Regard to Sharing of Employees:**

- Held reported Tim Bliss worked 50.5 hours between October 14 and November 17. This included training time and should decrease in about another month.
- Held suggested we should have agreements with employees of Curran-Gardner Water District or other qualified people at some hourly rate to allow us flexibility and backup in scheduling coverage for the plant.
- Commissioner Sander will contact New Berlin regarding an agreement for \$30,000 worth of Bliss' time annually which would include benefits, transportation and any other related expenses.
- Held will contact Mike McCarty about the possibility of subcontract agreements for occasional work for the commission and to discuss a rate for such work.

**Hunting on Commission Property:**

- Commissioners tabled the possibility of allowing bow hunting on our property until next year.
- Held will post No Trespassing signs and No Hunting signs for now.

**Manager's Report by Dan Held:**

- Held continues to monitor various readings and work with vendors regarding repair and improvement issues in the plant and well field. His written report is attached to these minutes.

- Chatham personnel will handle repairs to the hydrants broken by W-D Right of Way and Dillion Runge.
- Held will provide Myers all information regarding Runge so he may prepare a letter regarding our damages caused by his truck.
- Held will get bids for repair of the tile hole in the well field.
- Held will order a sign with contact information to mount on the fence south of the plant at a cost of approximately \$150.
- Held will get the specifics regarding the problem with the heater on Brine Tank #2 to Myers so he may prepare a letter to Design Tanks and/or Anderson Electric to put the problem on the record in case of future problems.

**Major Project Bids:**

- Max Middendorf presented bids received for upcoming major projects.
- Held will take care of brine pump #1.

MOTION by Sander, second by McCord to accept the low bids from Prairie State of \$2,350 for bracing on the high chloride and backwash line and of \$1,450 for work in the ammonia room.

Roll call vote: McCord – yes Sander – yes Motion carried.

MOTION by Sander, second by McCord to accept the low bid from Petersburg Plumbing of \$54,625 for clear well piping

Roll call vote: McCord – yes Sander – yes Motion carried.

MOTION by Sander, second by McCord to accept the low bid from Vinson & Sill of \$39,770 for the master meter/vault.

Roll call vote: McCord – yes Sander – yes Motion carried.

- Middendorf will send contracts for these projects to Myers for review.
- Held will get prices for fencing the KMNO4 building for discussion at a future meeting.

**Old Business:**

**New Berlin Interconnection:**

- John Myers reported we recently received a letter from Bob Dalton regarding the interconnection between Curran-Gardner and New Berlin which suggests our commission would participate at a cost of \$45,000.
- Sander will discuss this with New Berlin and will report for further discussion at a future meeting.

**Treasurer and Business Office:**

- Laura VanProyen will submit the RFQ for a treasurer to the Chatham Clarion, New Berlin Bee and County Tribune for publication the weeks of November 25 and December 2. Responses will be sent to the water plant with a deadline of January 7.
- Held and Bliss will move the files from New Berlin into a temporary office at 1300 South Eighth Street on November 26.
- Permanent business office space will be researched after a treasurer is found.

**Adjournment:**

- The next regular meeting of the South Sangamon Water Commission will be December 17, 2013 at 8:30 a.m. at the water plant, 9199 Buckhard Road, Rochester.

MOTION by Sander, second by McCord to adjourn.

Voice vote: Motion carried.

- The meeting adjourned at 10:50 a.m.

Respectfully submitted,

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Clerk

# **SOUTH SANGAMON WATER COMMISSION**

## **PLANT REPORT**

November 19, 2013

### **Old Business**

#### **Mowing and clearing of CRP ground in Well Field**

- Rodney Womack started working on the mulching and mowing in September 3, 2013 and is approximately 65 percent complete. As agreed upon at the last meeting, a \$15,000 limit was set on the maximum amount of work to be performed.
- After Rodney Womack came by the plant and informed me he was done in the well field, I went down and saw a lot of the work had not been completed. I contacted another excavating company to get an estimate on how much to complete the work. The estimate came in at \$7,500 to \$9,000.
- At the last meeting, it was decided that I would work with Myers and Rabin on a letter to Rodney Womack. Rodney Womack arrived at plant on October 22, 2013 (9:30 am) to do more work in the well field. He has since left and I haven't seen him since.

#### **SMSD High Chloride issues**

- The results for the high chloride tank according to the SMSD and the lagoon are included in this report. Permits require the high chloride tank samples not exceed 30,000 mg/L and no more than 500 mg/L to the lagoons. See the attachment titled "Chloride Report" for recent test results.

#### **Well 5 Bac-T**

- Brotcke Well and Pump came to the plant on August 21, 2013 to treat Well 5. Estimated cost was approximately \$1,500. On September 13, 2013 Brotcke Well and Pump came back to the plant and treated it again as the samples from the initial treatment did not pass.
- The first sample I took after the treatment from Brotcke came back positive. The second sample I took came back negative. However, the power was cut to the wells by the people digging the foundation for the KMNO<sub>4</sub> building and the wells were off for about four hours. The sample I pulled the next day came back positive. Since then both samples I've taken have come back positive.
- Brotcke Well and Pump are scheduled to come back to the plant and treat Well 5 again. However, since the VFD that was in Well 5 is now in Well 1, I have told them to stand by until Well 5 is up and running again. The VFD for Well 5 is scheduled for delivery and installation on November 25, 2013. I will schedule the well for treatment with Brotcke Well and Pump as soon as possible and attempt to get this well back on line.

#### **Bracing on High Chloride Lines and Leak**

- For quite some time we've had a small leak on the chloride waste lines. On June 28, 2013 I was walking through the plant and heard a loud boom. The valve on the

low chloride waste line had snapped open and the lines were shaking when I looked up at them. I had E.L. Pruitt come out to the plant and add additional bracing to the lines so if they do open hard the lines won't shake – which I believe had caused the leak in the first place.

- The valve for the low chloride waste slams open during the start of the brine step. I'm going to have E.L. Pruitt check this and have this corrected. My fear is that if the valve continues to open hard, the plastic will eventually break the line.
- On September 18, 2013, I was in the plant near the workbenches and heard the brine pumps kick on and then heard the valve open for the low chloride waste open about 15 seconds later. On September 30, 2013, Paul from AAC came out to the plant and made computer changes to prevent this from happening. This seems to have slowed the leak on the valve 25 feet above the budget near the air compressors. I have asked Max Middendorf to help determine what the issue is with piping and water hammer to determine what needs to be done to eliminate this problem.
- Also during September, I was in the plant area and noticed that during the slow and fast rinse steps, both valves were open to the lagoon and to the high chloride tank. AAC came to the plant on September 30, 2013 and made modifications to the SCADA program to eliminate this issue as well as the water hammer issue. This may be a part of the reason for the wild swings in the high chloride numbers.
- This work will be scheduled as soon as possible and will be completed prior to the next meeting. **This is the last update on this issue and it will be removed from this report**

#### **Maintenance on Aerator**

- The plant has been on line for nearly 18 months with little maintenance done to the Aerator. When Tonka Representative Alex Martell was here in the spring of 2013, he indicated that we could make it through the summer, but the Aerator should come down and have the tubes cleaned or removed and new tubes put in its place. Using the replacement method would provide us with a spare set of tubes for future cleanings.
- See the attached Tonka Water quotation for a representative to come to the plant and walk us through a cleaning as well as to be on site and walk us through a cleaning process with tubing.
- Subsequent to the meeting, during discussions with Tonka representatives I found out the quote for the tubes and for a Tonka representative to be on-site was nearly \$10,000. On November 14, 2013, Tim Bliss, Shane Hill and I took the aerator off-line and inspected it for the maintenance issues. We took pictures and forwarded them to Tonka and we found the aerator to be in excellent condition. We will schedule another inspection in April 2013 (every six months as suggested by Tonka) and likely replace the tubing at that time. **This is the last update on this issue and it will be removed from this report**

#### **New Culvert in the Well Field**

- Mr. Mark Heissinger (217) 364-5236 came to the plant on September 30, 2013 and made three inquiries. The first was who he needed to speak to about the dirt located

west of the plant. Second, if the SSWC had any plans on adding wells in the area northeast of existing SSWC property. Finally, if it would be possible to put a culvert in near the outfall to make it easier to get back in there – especially in the cooler months during deer season. I told him I would take his request for culvert installation to the commission to get there feedback.

- I informed Mr. Heissinger on October 21, 2013 the commission had approved his request for a culvert. I also told him that Green and Bradford was coming out to show me the property lines for the SSWC's property to make sure the culvert would be on SSWC property. Mr. Heissinger said they would be putting the culvert after they finished with harvest. The cost to provide and install the culvert fall upon Mr. Heissinger. Some dirt was used from the piles in the well field at no charge from SSWC.
- Subsequent to Green and Bradford marking the location of the SSWC boundaries, I have flagged the area where Mr. Heissinger would like to located the culvert and it is entirely on SSWC property. Mr. Heissinger will be installing the culvert at his leisure. **This is the last update on this issue and it will be removed from this report**

#### **Broken Backwash Line in the northwest corner of the plant**

- On August 22, 2013, E.L. Pruitt was at the plant to replace the broken backwash line. Additional bracing still needs to be installed on the piping per Max Middendorf. I will be contracting E.L. Pruitt in the near future to have this work completed.
- This work will be combined with work on the high chloride lines in the northeast corner of the building and other work needing to be done in the plant. Additional bracing will be installed pending the approval of the quote by the SSWC board. **This is the last update on this issue and it will be removed from this report**

#### **Hydrants in the Well Field (north hydrant) needing repair**

- On September 4, 2013 Rodney came up to tell me the farthest north hydrant in the well field was damaged. Chatham public works will be repairing the hydrant sometime in the future

## **New Business**

#### **Hydrants in the Well Field (south hydrant) needing repair**

- On November 18, 2013, Mr. Dave Jostes called me and told me that he had information with regard to the damage on the subject hydrant at the corner of Marsch Road and the road that takes you to Wells 8, 9 and 10. Mr. Dillion Runge wanted to see if he could go through the water got his truck stuck (circa May 2013). A passenger who was in the truck (Steve Oldfield's son) called his father who tried to pull them out with a small truck but were unsuccessful. They called Dave Jostes but he told them he would not take his equipment down into the water. They called Tuxhorn and Brady Reim went out to try and pull them out but was unsuccessful. It was at this point they found out they were pinned against the hydrant. Tuxhorn brought out a bigger truck and they ended up hooking to the back of the truck and pulling it around until it was off the hydrant. They then towed it to Oldham's residence. Dillion Runge is now suing Tuxhorn for damage to the truck and is subpoenaing Brady Reim to appear December 19, 2013. How should I proceed on this issue.

### **Tile Hole in the Well Field**

- While Rodney Womack was mowing the well field, he discovered a tile hole. I would like some guidance on who's responsibility it is to fix the tile hole?

### **Well 8**

- We have gotten two consecutive Bac-T's that are positive for Total Coliform. When the new VFD is installed and working, I intend to have Brotcke Well and Pump treat Well 8 at the same time Well 5 is treated.

### **Contract Sign for the plant**

- It has been suggested by a couple of people who live in the area of the plant that we put a sign up out in front of the plant with names and numbers of people to contact in the event one of the air expellers is dumping water on the ground, etc. The cost to get a sign done by "Signs of all Kinds" on Dirksen Parkway is approximately \$150.00. I suggest we have the sign made and mount it to the fencing on the south side of the plant.

### **Brine Tank #2 electric issue**

- The heater on Brine Tank #2 kept tripping. I called Anderson Electric out to work on the issue and they found salt inside the electric conduit. Rick from Anderson Electric cleaned the box up and the breaker is now holding. It is his position that a bad gasket on the conduit allowed the salt into the conduit. Anderson Electric's position is they ran the electrical up to the tank so it's not their responsibility. Design Tank indicated they are not at fault either. If the electrical goes out on the tank this will be a very expensive repair. I would like some guidance on how we should proceed from here.

### **Heat Trace on Aerator**

- The heat trace on the aerator kept tripping out at the breaker. I called Anderson Electric out to the plant to investigate the problem. The wires that lead from the breaker box to the aerator were nicked in about seven different locations. Anderson Electric pulled new wire from the aerator to the fuse box and rewired the entire system at their expense. **This is the last update on this issue and it will be removed from this report.**

### **Additional Part-time Operators for the plant**

- I would like to secure additional part-time operators for the plant. These operators would provide needed help on the weekends and holidays. Mike McCarty, a Curran Gardner Township Public Water Supply employee, would like to check the plant on weekends and perform necessary daily water testing. I suggest we hire Mr. McCarty and pay him only for the time he spends at the plant with no benefits.

## **Major Projects Update**

### **KMNO4 Building, Master Meter and Mixing Tank Modifications (\$120,000)**

- On July 10, 2013 Liquid Engineering will be on site to install the baffling system in the mixing tank, thereby converting it to a detention tank, prior to feeding KMNO4 from the well field.
- I have been in contact with Baker Yards (Pawnee and Morrisonville), Alexander Lumber in Taylorville and RP Lumber in Chatham for prices on the materials for the 6' x 8'



building. Meco Engineering's Brad Fohey has been in contact with IMCO in Winchester, Illinois for the chemical feed vault and Central Subsurface for the floor on the chemical feed vault. Anticipated start of construction on the feed vault is unknown. Michael Concrete suggested the building foundation will required about 10 working days to complete. Once all of this in place, the building will need to be constructed before the feeding can begin. I have contacted Anderson Electric about an estimate on the electrical for the building but they have not replied.

- I have contacted the Sangamon County Building and Zoning Department regarding the building permit. No building permit is required for this project.
- On August 22, 2013 the chemical vault and lid were delivered to the well field by IMCO in Winchester. The vault is now in the well field and ready to install.
- On September 16, 2013, Vinson and Sill hit the electric lines that carries electricity to the well field severing it in two.
- On October 9, 2013, Vinson and Sill completed their work and the building is now ready for AAC to incorporate it into the treatment system. AAC plans to be here in October 16, 2013 to begin that process.
- The new master meter to be located behind the clear well will be installed at a later date when the demand for water isn't as great. Materials will be secured and stored on site here at the plant until installation begins.
- In early November, AAC came down to the plant to calibrate the pump and hook the KMNO4 pump into the SCADA system. The scale is malfunctioning and has to be shipped back to the manufacturer for repairs. Until the scale is returned this project is on hold.
- Seeding of the ground around the new building should be delayed until spring 2014.

#### **Dedicated Backwash Line from the Clear Well (\$75,000)**

- Permit has been applied for and received from Illinois Environmental Protection Agency. Estimated cost is \$75,000 for installation.
- Bids for this project were secured in October, 2013.

#### **Air handling system in back of the building (+/- \$25,000)**

- Bids for modifications to the Ammonia Room were secured in October, 2013

#### **Air Conditioning System in Conference Room, Lab and Break Room (\$15,000)**

- No new information at this time.

#### **Green Sand Filter Project (\$1.0 million)**

- No new information at this time.

# CHLORIDE REPORT

Lagoon (500 mg/L limit)	
Date	mg/L
07/15/2013	665
07/22/2013	475
07/29/2013	503
08/05/2013	462
08/12/2013	468
08/19/2013	500
08/26/2013	517
09/03/2013	430
09/09/2013	392
09/16/2013	424
09/23/2013	399
09/30/2013	374
10/07/2013	742
10/14/2013	564
10/21/2013	478
10/28/2013	404
11/04/2013	405

High Chloride Tank (30k mg/L limit)	
Date	mg/L
07/19/2013	13,400
07/25/2013	12,400
-	
08/06/2013	15,500
-	
08/19/2013	27,800
08/30/2013	21,100
09/09/2013	30,000
09/18/2013	20,800
09/30/2013	27,800
10/11/2013	22,800
10/18/2013	13,400
11/8/2013	10,700

11/18/2013