

MINUTES OF THE BOARD OF PUBLIC WORKS
Tuesday, June 14, 2016

The Regular Meeting of the Board of Public Works was held on Tuesday, June 14, 2016 at 7:30 p.m. in the City Council Chambers located at 405 Jefferson Street, Washington, Missouri. The following were present/absent:

MEMBERS:

Chairman	Kurt Voss	Present
Member	Rob Vossbrink	Present
Member	John Vietmeier	Present
Member	Brad Mitchell	Present
Ex-officio Member	Mike Radetic	Present

OTHERS:

Council Representative	Jeff Mohesky	Absent
Council Representative	Josh Brinker	Absent
Council Representative	Steve Sullentrup	Absent
Council Representative	Greg Skornia	Absent
Mayor	Sandy Lucy	Absent
City Administrator	James A. Briggs	Present
Public Works Director	Brian Boehmer	Absent
Water/Wastewater Superintendent	Kevin Quaethem	Present
Public Works Secretary	Beverly Hoyt	Present
City Engineer	John Nilges	Present
Assistant City Engineer	Andrea Lueken	Absent

Originals and/or copies of agenda items of the meeting, including recorded votes are available on record in the office of the Public Works Secretary for one year. Video/DVD and audio tapes are kept only until the minutes have been approved for the meeting. DVD copies of this meeting are distributed to Board Members if requested.

A motion was made by Mr. Vietmeier and seconded by Mr. Vossbrink to approve the minutes from the regular May 10, 2016 meeting. The motion passed without dissent.

Wastewater

Electric Unlimited is 100% complete. Nothing further to be done, final will be presented to the board next month. All systems are up and running with no problems.

Odor at the Wastewater Treatment Plant has been minimal. There are a few odors early in the mornings on the trail that are contributed to possibly the mixers that are running at the plant. We are pressing one to two times a week.

Water – Siemens Presentation by Wes Walker

Scope – Year One - Test Results (Recap) - Main question is has Siemens met their guarantee? After a thorough review of City billing, numbers of meters and sizes of meters that were contracted have been run. There is a notable difference in size of meters, 5/8" was about 655 less and the 3/4" was 471 more. Original test back in 2011 the 5/8" tested low and were not capturing all the water for metering and billing. The 3/4" was incredibly high close to 100%, 1" and 1-1/2 was 94.7% accurate. The guarantee was for the 5/8" and 2" only, the 3/4", 1" and 1 1/2 were already 100% accurate in performance.

The actual test results for the 5/8" and 2" were down 20% from baseline year. The 5/8" and 2" actually captured 489,817 kgal water and sewer, baseline year of 504,217 of water and sewer. If the existing meters were still in place 404,143 kgal would have been captured that would be an additional 85,674 kgals captured from the 5/8" and 2" (489,817). Contract guaranteed 108,171 kgal. Additional revenue captured is \$217,148. All that was really seen was \$22,497 less than contracted.

Close out of project was 2013, the reduction between pumped and metered kgal reduced by 29%. In 2014 the gap increased. Meters are testing within manufactured range. We knew there were some differences but we didn't know how many meters were 5/8" or 2" for sure until they were installed. We should have revised once the as-built documentation was received and revised the calculations.

Where do we go from here? The pumped and billed water is going in a different direction. As far as pumped we have had to do an excessive amount of flushing throughout 2014 and 2015 which put a lot of unused water on the ground that's not metered. The meters are performing above where they should. The change in consumption is not a result of meter accuracy. This is a result of a lot of variables, meter use, population change, weather, it's impossible to know what the consumptions of next year will be. It could be up 20%.

Increase from year one to three it's the water being captured times the water and sewer rates. If the existing meters had been kept in place they would have degraded, they were at 75.8% accurate. The increase is a result of the amount of water flowing through at the rate captured times the water and sewer rates. Table 1.2 explicitly states that we will not predict the fluctuations in usage it's impossible. The actual billable usage is calculated by multiplying the water we know that went through it divided by the accuracy of the meters there were versus the meters Siemens installed.

The City was told that these new meters would show an increase in consumption, but this has not happened. We still have not seen savings in increased sales that would result in sufficient revenue to pay off debt. It's not happening. The Board has asked Siemens to return in July for further discussion.

Donohue - Hydraulic Study

Donohue will come back for July Board meeting to present their presentation. The Hydraulic Model calibrated system is well maintained. Well 10 issues with low pressure and high pressure is due to Well 10 running and turned off. While well is running psi is 100 or higher, when well shuts off it drops to 35 psi. The ground elevation cannot be fixed.

Storage Tank Volume – Enduro stand pipe is 80 feet tall. Top 10 to 15 feet is usable, when it goes below that level you can't maintain the 30 psi. We calculated the needed storage compared to the usable storage, there is a storage surplus. Based on strictly storage numbers there's no justification for a new tank at this time.

An additional tank is recommended on the east side of town just so we could allow for new growth. It would alleviate the pressure fluctuation near Well 10 area. It also can help maintain fire flow if a catastrophic power outage occurred. It would maintain pressure in the system. Well 10 pressure fluctuation is due to lack of storage and the fact there is only one 8" connection to that area to the rest of the system. Another transmission to connect to the rest of the system would make for a better connection.

Another recommendation is a control valve on the Enduro tank. Well 11 is closely located to the Enduro stand pipe. Well 11 turns on and the stand pipe fills quickly then Well 11 turns off. We recommend putting a control valve inlet on the Enduro stand. This would force the Well 11 water to feed into the system instead of directly into the pipe tank and the tank will fill more slowly allowing Well 11 to stay on longer instead of off and on all day.

There are a lot of areas in the older part of town that have smaller mains and old cast iron main. A plan needs to be implemented that would allow replacing those in a systematic way with a larger main, or PVC main.

ISO would come in the hottest part of the year available fire flow from tanks. Residential Code – 1000 per minutes, 1500 in commercial with Well 10 and 11 having backup generator we have met that flow. We can maintain a 20 psi for 8 hours if there were a power outage. Which is plenty of time for staff to go to Well 10 and 11 to make sure generators are working. With 10 and 11 running it lasts about 18 hours, giving time to get portable generators to Well 5 to get kicked on. With all three on in a no power situation we can maintain 20 psi for over a five day period. They don't operate at full capacity but 20 psi is the DNR's requirement and we meet that.

System in a whole is in good shape, we do have some deficiencies. The study gives us a change to calculate water line sizes on expansion projects. We tried this out on a couple of projects in our offices it works nice.

Donohue will have a final report at the July meeting.

Permanent Chlorination

Donohue & Associates, Chris has sent all the paperwork to DNR after the initial requirements for more information was needed. The system is up and running. There is one thing we still need to do and that is put vents outside the buildings. We are holding off until we get the permit.

The Public Works is still fielding calls with regard to dirty water and odor issue, but they are to a minimum of four or five per month.

Fire Chief Halmich spoke briefly about the fire flow and discussed the fire hydrants that are coded by color and a little on the ISO that is to be done early this summer. He reminded us that we need to do flow tests periodically to maintain flow.

A motion was made by Mr. Mitchell and second by Mr. Vossbrink to adjourn for Executive Session.

All in favor aye, all oppose, none. It has been approved to go into Executive Session.

Return from Executive Session:

Chairman Voss had to leave to be in court. Mr. Vossbrink brought up that his term is expiring in June of this year and he has elected not to renew his term. Mr. Vossbrink was an officio for six years and has served on the Board for nine years. He feels it is time to let someone else move up. Mr. Mike Radetic was asked and has accepted the position. Mr. Vossbrink says he will be here to answer any questions anyone might have, always happy to help.

Board thanked him for his time and service.

Next Scheduled Meeting Date:

The next scheduled meeting date is August 9, 2016.

Adjourn:

There being no further business the meeting adjourned on a motion by Mr. Vietmeier and second by Mr. Mitchell. All in favor aye, those oppose. We are adjourned.

Prepared by: Beverly Hoyt
Beverly Hoyt/
Public Works Secretary

Adopted and Approved By the Board of Public Works:

Date: 7-12-2016 Signature: John Vietmeier
Secretary