

JOINT WATER/SEWER BOARD OF THE CITY OF BUCHANAN AND BUCHANAN TOWNSHIP

MONDAY, FEBRUARY 05, 2024 – 7:00 AM

CHAMBER OF BUCHANAN CITY HALL - 302 N REDBUD TRAIL, BUCHANAN MI

MINUTES

THE JOINT WATER SEWER BOARD OF THE CITY OF BUCHANAN AND BUCHANAN TOWNSHIP, in compliance with the Open Meetings Act, hereby gives notice of a regular meeting to be held in the Chamber of Buchanan City Hall.

* Comments may be submitted in writing at least 72 hours in advance to the City Clerk at <u>clerk@cityofbuchanan.com</u>

I. Call to Order

Meeting was called to order at 7:00 A.M. by Chairperson, Tom Gordon. (10:19)

II. Pledge of Allegiance

Gordon led in the Pledge of Allegiance.

III. Roll Call

Present: Chairperson & Buchanan Township Trustee, Thomas Gordon; Buchanan Township Supervisor, Mindy Cole-Croker; City Commissioner Patrick Swem, Commissioner Larry Money, Brian Murphy.

City Staff: City Manager, Timothy Lynch; City Clerk, Kalla Langston; Water Operator in Charge, Craig Miller; Wastewater Operator in Charge, Andy Warner; Director of Public Services, Mike Baker

IV. Approve Agenda

Motion made by Cole-Croker, supported by Swem, to approve the agenda as presented. Voice vote carries unanimously.

V. Public Comment - Agenda Items Only

None.

VI. Approve Minutes

A. Consider approving the JWSB minutes from November 6th, 2023.

Motion made by Swem, supported by Murphy, to approve the minutes from November 6th, 2023 as presented. Voice vote carries unanimously.

VII. Unfinished Business

A. Life Action Camp Continued Discussion

Mary filling in for Frank Renaldi, the engineer with Wightman on the project:

- 3 potential force main connections, two require life station upgrades, we prefer the connection where no upgrade is needed
- > Developed flow rates, and a model of your collection system with the SAW grant work
- What is the city willing to accept and if so where would be connect?

Lynch: We are interested - need to work out modeling, analysis, who's paying for what, REUs, and costs per million gallons. With the water and sewer contract between the City and Township, any upgrade or planning to systems in the Township would fall on them. St Joseph Township charges REU's in the \$27-

32 range, and \$4,500-5,400 per million gallons. 4th street connection does appear to be a good hook up good spot, we are trying to determine the condition of the lines downstream from there

Mary: Once the model is built plugging in flow is easy, infiltration and inflow analysis is included. We have experience with sanitary models as we modeled the City of Kalamazoo's flow. During the SAW I assume you have CCTV to give an idea of the line current condition. We expect necessary capital improvement the SAW analysis found would be the responsibility of the system, and as a user we anticipate the connection and treatment fees to cover that. Could have mag meter installed for billing, develop a maintenance and calibration agreement. Lift station flow rate is the determining factor, volume won't be an issue. Experience with Niles City lift station upgrade where we used velocity dissipators which could help minimize flow here

Craig: Mike Schwartz with Prein and Newhoff has the videos, we received them but manholes were numbered without the location. I will get that information from him.

Gordon: Are we looking at a six-inch force main? Do you have retention times and odor control within the system? Are we looking to connect to the city with a drop manhole device?

Mary: To get 2 ft per second through a HDPE we are looking at ~150 gallons per minute. PVC force main and slightly larger ID for a six inch would be ~180 gallons per minute at 2ft per second. Also have to have relief valves and vacuum release valves included in that. We have 6 air release manholes and 7 clean out manholes in the cost estimate.

Baker: I don't think 4th St is too deep, we will probably come in at the bottom.

<u>Moving Forward:</u> Contact Prein, give them a range from 150-200 gallons per minute, what would they charge to punch this flow into the model? Run a scenario on either end of the range to see if we hit the capacity point. May call special meeting if anything comes up.

VIII. New Business

A. Rate Study Discussion- John Holland, Michigan Rual Water Association

– on hold –

B. Water & Wastewater Reporting- Including data, studies, and asset management; City Manager, Timothy Lynch (numbers based on state reports)

Water Data

Water Production: rates consistent after Dec 2022 when there was water loss usage Daily Average in Dec 2023-0.27 million gallons, down from Dec 2022-0.67 million gallons

Chemical Application: Chlorine/Fluoride application rates consistent since Dec 2022 water loss

Water Quality: residual Chlorine/Fluoride well below regulatory limit, indicates proper disinfection

Raw Water Coliform Monitoring performed at 4 wells monthly – 0 MPN (most probable number)

Wastewater Data

Plant Flow: plant designed for 1.3 million gallons per day, daily average is consistent and fell between 0.757 and 0.827 between Dec 2022 and Dec 2023.

Gallons/Capita/Day: strive for 100 gallons/day/person, we are at ~180 gallons/day/person.

- that's a sign you have a lot of inflow and infiltration or could have high industrial users
- used a population of 4,400 in this calculation for this system

Final Effluent Sent to the St Joe River: Carbonaceous Biochemical Oxygen Demand (CBOD), Suspended Solids, Fecal Coliform, pH, & Dissolved Oxygen levels → consistent, well within range. Phosphorous → close to the limit but within range, can always drop level by increasing ferrous chloride dosage but it's expensive so phosphorous levels are kept higher.

Power and Gas: first time report as monitoring started last March, power usage around 2,100 kilowatt hours/million gallon, we are tracking natural gas.

C. Water Department Report- Craig Miller, Operator in charge

- Fixed 3 main breaks 1 service line
- Dylan is now D4-S4 certified
- Consumer Confidence Report, SARA II Chemical Inventory Report, Reports done for EGLE
- Great progress on meter no reads, have parts on order for repairs
- PFAS sample for EPA done, water loss improvements
- > Capital Needs: hydrants in the budget, service van, commission approved SCADA upgrade
- Applied for EGLE lead service line grant for \$558,000 which only applies to identifying line
 - Makes you eligible for the next step offering removal and replacement grants
 - Our Drinking Water Fund put us in the second tier of eligibility, answers in March

D. Wastewater Department Report- Andy Warner, Operator in Charge

- Current NPDES Discharge Permit and Limitations
 - Stormwater entering sanitary system at 2 known locations and unmetered well water suspected of entering sanitary at one location. We are investigating this.
- City of Buchanan Sewer Use Industrial Pretreatment Program (IPP) Ordinance of May 2020
 - Adoption By Buchanan Township
 - SEBC Landfill Authority Permit
- > Township Infrastructure and Lift Station maintenance
- Capital Planning relating to Prein & Newhof CIP
 - Schirmer Force Main
 - Glaser Lift Station and Force Main
- Capital Needs Wastewater Plant: Plow Truck and Plow
- Spare Parts and Equipment Inventory
- Disinfection system issues
- Leachate and sludge production
- Permit required sampling and testing
- Maintenance Activities

IX. Public Comment - Non-Agenda Items Only

None.

X. Adjournment

The meeting adjourned at 8:07 am.