

To: Mayor Jacque and City Council Members
Cc: Mick Michel, City Administrator
From: John F. Wandsnider, PE – Public Works Director/City Engineer
Date: November 16, 2023
Subject: Public Works Report: October 12 – November 15, 2023

Things have been operating well over the last month or so in the Public Works Department.

Operation and Maintenance of Fleet, Highways, Streets, Alleys, Parks, Trails, Rivers, Creeks, etc.

We have been working to finish up fall duties and winterize the various equipment and facilities, as necessary. Crack-sealing of several blocks of streets will be completed this week. Fall street sweeping is particularly busy with all the leaves that fall on the streets. The compost bunker at the WWTF has been seeing a lot of activity, with all the yard-waste being hauled there.

We are nearly finished preparing all of our winter street maintenance equipment and materials. The loader, skid-loader, our two plow-mounted dump-trucks, and our two salt-spreader-and-plow-mounted dump-trucks are all ready to go. This season we contracted 450 tons of salt. We have about 50 to 75 ton of salt leftover from last year.

We have again contracted to mix an additive into most of our salt. This substance turns the salt an aqua green-blue color. The product, which has been in use out east for over 25 years, contains magnesium-chloride and promises to pay for itself with a whole host of benefits, including: 85% less corrosivity, requires 30% less salt, won't freeze in chunks (this is a common operational problem with salt alone), is effective to -35-degrees (salt alone only to +18-degrees), and has no shelf-life limit. We found that this mix appears to well-fulfill the promises mentioned.

So far, we have only seen a small amount of snow, which fell a few weeks ago and did not amount to much, since the pavement temperatures were still higher. We did have to give some attention to the bridges in town, but otherwise it would not too taxing.

Operation and Maintenance of Drinking Water Delivery and Wastewater Disposal Systems

The drinking water source, storage, treatment, and distribution systems are serving the city well. Please refer to the below report from water operations.

The wastewater collection, pumping, treatment, and disposal systems are also operating well. The monthly report was unavailable at the time of this report. It will be included next month.

Status of Improvement Projects – 'In-House Design'

Downtown Streetscape Rehabilitation (Added 4/23)

A majority of the downtown streetscape will be 20 years old next year! We intend to perform the rehabilitation out of our operations budget, and phase it over about 5 years. The first phase of the project is the streetscape portion (behind the curb to the building line) of the 3rd and the 4th Street intersections and the block between them. All 6 limestone medallions will be reset, this time on concrete, and the cracked and deteriorating buff-colored handicap panels will be replaced with black powder-coated cast-iron panels. A small portion of the colored and stamped concrete will need to be replaced due to excessive cracking and settling. Work will be done this FY, possibly this fall, depending on contractor's schedule.

Wayfinding Signs Project (Added 12/22)

Because Public Works is down to crewmembers, we will not be able to complete this project in-house. We have reached out to SELCO for assistance. They plan to perform the installation of the final 12 signs beginning the week following Thanksgiving.

Hwy 52 Manhole Replacement at 2nd Avenue (Added 11/21)

Due to the need for a detour across the 1st Avenue West bridge (under rehab construction), this will be done next year.

Downtown Businesses Accessibility – (Added June, 2021)

Working toward including recommendations into the sidewalk program.

Legacy Square – Stage (Added Spring 2021)

Most of the hardware has been installed. Company plans to be in the first week of December to program the system and start it up.

Status of Improvement Projects – ‘Outside Design’

20 West Industrial Park, Phase III Rise Grant App. (Added August, 2022)

Construction of the Contract C double-box-culvert is underway. Contract D including roadway storm sewer, concrete paving, and lighting is planned for bidding later this month.

1st Avenue W. Bridge Over Bear Creek – Deck Overlay (Added May, 2022)

Construction is substantially complete, with a few minor items of clean-up and sitework left to be done. It is anticipated that the bridge will re-open for Thanksgiving, for which we are giving thanks.

3rd Avenue SW Bridge (Added to list in February, 2022)

Needs further evaluation

Field of Dreams Stormwater Wetland and Mitigation (Added to list in April, 2020)

Project substantially complete. Temporary erosion control seeding has been placed. Permanent bluegrass seeding has been completed both north and south of Beltline Rd. Native seeding was performed in late November 2022. A live streaming camera of the site is available for viewing at:

<https://video.nest.com/live/G4AGPm8tkR>

Dyersville East Road Water and Sewer Extension 2020 (Added to list March, 2020)

Contract B Water Main construction is complete. **Start-ups are being scheduled with F.L. Krapfl and Automatic Systems for Contract C Water Pumping Station.** Construction for Contract D Lift Station and Linear Sewer Onsite with Portzen Construction is **nearing completion and start-ups are being scheduled with Portzen Construction and Automatic Systems.** Construction is complete on the Sanitary Sewer and Force Main (EDA Contract) with Tschiggfrie Excavating. **Construction is complete** on the original work under Contract E with Top Grade Excavating. **The additional change order work to provide utilities to the existing FOD facilities is scheduled to get underway in the near future.**

Heritage Trail Pavement Extension (Added to list January 2020)

The engineer is working on final closeout. The final payment submitted for approval.

Bear Creek Restoration (SRF Sponsored Project)

This project is substantially complete. The video camera is still mounted near 3rd St. with a public video link for anyone to monitor. <https://www.senserasystems.com/public/embed/M78018326A93>

Respectfully submitted,

John F. Wandsnider, PE - Public Works Director / City Engineer

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Memorandum

To: Mayor, City Council Members and City Administrator
From: Terry Recker, Water Operator
Date: November 9th, 2023
Subject: **Water Operation October 2023 Report**

Water Pumped

Total Water Pumped for Month	11,053,000 Gallons
Average Pumped per Day	357,000 Gallons
Maximum Daily Pumped	531,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	2.08 mg/l
Average total Chlorine in the System -	2.20 mg/l

Polyphosphate

Average Residual at Well #4	1.07 mg/l
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Water Call Outs

0 for the month
Total for the year – 4

Water Main Breaks

2 for the month
Total for the year – 4

Water Activities

89- Line Locates Completed
38-Water Work Orders Completed

Operations and Maintenance

Bacteria samples were taken, and the results were negative. The monthly operating report was completed and sent to the DNR. Preventative maintenance was completed at Well#4 and #5, including exercising water valves and doing well draw down at both wells. Daily rounds were completed for the month at both wells. Meter reading was also completed this month. Joe, Adam and I completed winterizing the parks and the pool for the season. We did it a little sooner than normal but with the temperatures in the low 20's at night for a few days we figured better safe than sorry.

Water Operator,
Terry Recker