

**To:** Mayor Jacque and City Council Members  
**Cc:** Mick Michel, City Administrator  
**From:** John F. Wandsnider, PE – Public Works Director/City Engineer  
**Date:** December 14, 2023  
**Subject:** Public Works Report: November 16 – December 13, 2023

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

### **Retirement of Mike Maahs**

It is with mixed emotions that we accept the retirement of Street Foreman and longtime crewmember, Mike Maahs. Mike has been a tremendous asset to me for as long as I have been here, and for the City of Dyersville for nearly 31 years. As the senior member of the Public Works staff, Mike is looked up to by the entire department. The City has depended on his skills in helping with the Vehicles and Equipment Replacement Program, as well as his expertise in helping with winter weather responses and other areas of street maintenance and repair. We wish Mike a long and enjoyable retirement. He will be greatly missed.

### **New Public Works Employee**

The Public Works Department welcomed a new crewmember on December 4 – Tanner Lueck started helping in the Streets Division. He will spend several months in each area – streets, water, and wastewater – over the next year to help him to become familiar with the many various tasks and responsibilities Public Works is involved in. Tanner has many talents and skills, a great work-ethic, and a lot of enthusiasm. We look for great things from Tanner for years to come!

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

Public Works is doing an excellent job with the operations and maintenance of Dyersville's streets system and equipment. We have winterized and mothballed our summer street maintenance equipment such as the street sweeper and the pavement marking equipment and made ready our winter street maintenance equipment and materials. They were put to use a couple times to address some snowy and icy conditions following some fairly minor precipitation episodes over the last couple months. Maybe that's all we will get...

### **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. Please refer to the below reports for October and November from water operations.

### **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 3<sup>rd</sup> and the 4<sup>th</sup> 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)

**All wayfinding signs have been installed. SELCO installed the last 12 signs last week.**

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

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

Downtown Businesses Accessibility – (Added June, 2021)

Legacy Square – Stage (Added Spring 2021)

**Programming of the system is planned for December 15.**

**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 and will be completed soon.** Contract D including roadway storm sewer, concrete paving, and lighting is planned for bidding **in the spring of 2024 and construction in summer 2024.**

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

**Final payment is on the agenda.**

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 the start-up has been conducted 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 wrapping up.**

Heritage Trail Pavement Extension (Added to list January 2020)

**The engineer is submitting the final documents to the DOT.**

Bear Creek Restoration (SRF Sponsored Project)

This project is 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

Email: [jwandsnider@cityofdyersville.com](mailto:jwandsnider@cityofdyersville.com) cell: 563-587-9131

# Memorandum

**To:** Mayor, City Council Members and City Administrator  
**From:** Terry Recker, Water Operator  
**Date:** December 7th, 2023  
**Subject:** **Water Operation November 2023 Report**

## **Water Pumped**

Total Water Pumped for Month	11,155,000 Gallons
Average Pumped per Day	372,000 Gallons
Maximum Daily Pumped	469,000 Gallons

## **Chlorine Testing**

Average Free Chlorine in the System –	2.05 mg/l
Average total Chlorine in the System -	2.08 mg/l

## **Polyphosphate**

Average Residual at Well #4&#5	1.57 mg/l
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## **Water Call Outs**

0 for the month  
Total for the year – 4

## **Water Main Breaks**

1 for the month  
Total for the year – 5

## **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. There was a small water main leak at the intersection of 8<sup>th</sup> Avenue and 1<sup>st</sup> Street NW on December 1<sup>st</sup>. Krapfl Construction made the repair on December 5<sup>th</sup>. We completed the implementation of the Cartegraph Operation and Maintenance System (OMS) to OpenGov OMS. With this system we will be able to develop a better workflow by inputting our daily rounds data directly into the OpenGov module. From there we will be able to transfer this information to IDNR monthly operating report (MOR) more efficiently. The OpenGov OMS system will also let us automatically set up general maintenance tasks on the water assets.

Water Operator,  
Terry Recker

# Memorandum

**To:** Mayor, City Council Members and City Administrator

**From:** Wastewater Operator

**Date:** 11/13/23

**Subject:** **Wastewater Operations –**

## **Influent Flows**

Total Treated for Month 13,952,000 Gallons

Average Flow per Day 450,000 Gallons

Maximum Daily Flow 555,000 Gallons

Average Influent Biochemical Oxygen Demand 211 mg/l

Plant loading pounds per day of 861 lbs. plant design loading 2400 lbs. per day

Average Influent Total Suspended Solids 233 mg/l.

Plant loading pounds per day 945 lbs. plant design loading 3600 lbs. per day.

Average Influent Total Nitrogen 43.8 mg/l

Plant loading pounds per day 191.9 lbs.

Average Influent Phosphorous 7.13 mg/l.

Plant loading pounds per day 31.30 lbs.

## **Effluent Testing**

C.B.O.D. Monthly Average	0 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	0 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	0 mg/l	Limit – 13 mg/l
Total Nitrogen	28.72lbs per day	Yearly Average 88lbs per day
Phosphorus	4.69lbs per day	Yearly Average 24lbs per day
E-coli	Not required mg/l	Limit 126 MPN

**Sewer Call Outs** – 0 for the month at the Treatment Plant.

Total for the year – 8

We have been working on maintenance. And have been getting things lined up for the plant for the upcoming winter months. Having Computer issues so I couldn't get this out last month.

# Memorandum

**To:** Mayor, City Council Members and City Administrator

**From:** Wastewater Operator

**Date:** 12/12/2023

**Subject:** **Wastewater Operations –**

## **Influent Flows**

Total Treated for Month 13,546,000 Gallons

Average Flow per Day 451,000 Gallons

Maximum Daily Flow 594,000 Gallons

Average Influent Biochemical Oxygen Demand 256 mg/l

Plant loading pounds per day of 1027 lbs. plant design loading 2400 lbs. per day

Average Influent Total Suspended Solids 194 mg/l.

Plant loading pounds per day 775 lbs. plant design loading 3600 lbs. per day.

Average Influent Total Nitrogen 39.15 mg/l

Plant loading pounds 176 per day lbs.

Average Influent Phosphorous 4.8 mg/l.

Plant loading pounds 21.89 per day lbs.

## **Effluent Testing**

C.B.O.D. Monthly Average	0 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	1.3 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	0 mg/l	Limit – 13 mg/l
Total Nitrogen	19.4 lbs per day	Yearly Average 88lbs per day
Phosphorus	1.02 lbs per day	Yearly Average 88lbs per day
E-coli	NA mg/l	Limit 126 MPN

**Sewer Call Outs** – 0 for the month at the Treatment Plant.

Total for the year – 8

November was a busy month with getting things prepped for Sludge Hauling. We again hauled sludge out to Steve Olberding's farm which works out great for both us and him. As we are in need of getting rid of the sludge and he gets the benefits of the nutrients for his crops, not to mention that the field is close that we can haul it with the tractor and spreader. We also lucked out as CJ Beeps in Farley had a Tractor and spreader so it was a one stop shop to get us moving.