

**To:** Mayor Jacque and City Council Members  
**Cc:** Mick Michel, City Administrator  
**From:** John F. Wandsnider, PE – Public Works Director/City Engineer  
**Date:** April 12, 2023  
**Subject:** Public Works Report: March 15 – April 11, 2023

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

**Dyersville Public Works Week – May 21 – 27**



For 2023, we plan to do something different. Together with our partners, the James Kennedy Public Library, we have reached out to the two local elementary schools and plan to provide a Public Works experience ‘field trip’ opportunity for the 5th- and 6th-Grade students. We will be at Dyersville Elementary School for part of the morning of May 22 and Xavier Elementary School on May 23. We plan to feature our Streets, Water and Wastewater Divisions, with equipment on exhibit and Operators to interact with. The library is preparing activity kits to provide to the students. It should be a lot of fun!

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

Mike Maahs and Tyler Vorwald continue to do an excellent job with the streets, parks, and equipment. It is nice that we did not have to deal with much snowfall over the last month. We were able to get caught up on some equipment maintenance, have started migrating the winter maintenance equipment toward storage (though I see snow has crept into the forecast again for Sunday night...☹), and have begun to prepare things for spring/summer. We have also been filling potholes and preparing for street pavement preservation and maintenance as well as continuing our sign replacement program. Our regular street sweeping regimen is on schedule.

We have also been working to help Adam to get the parks and ballfields ready for use and working on preparing the swimming pool for a likely busy season.

We have a good inventory of compost and mulch available to the public at the wastewater treatment plant.

**Operation and Maintenance of Drinking Water and Wastewater Disposal Systems**

The drinking water source, storage, treatment, and distribution systems are serving the City well, thanks to the excellent work of Terry Recker and Joe Reicher. Please refer to the below report from Water Operations.

The wastewater collection, pumping, treatment, and disposal systems are operating well, thanks to the excellent work of Tim Herbers and JoAnn Woodward, with help from Joe. Please refer to the below report for last month from Wastewater Operations.

### Status of Improvement Projects – ‘In-House Design’

#### Downtown Streetscape Rehabilitation (Added April, 2023)

I have begun working on plans/specifications and working with contractors to develop a program using operations funds to rehabilitate the downtown streetscape sidewalks and pavements over the next few years. I know the guy who designed it pretty well, and I expect him to be quite helpful.

#### 5<sup>th</sup> Avenue NE - Dyersville East Rd (Added 2/23)

Grant application for up to \$25,000 was submitted to RPA 8 last Thursday.

#### Wayfinding Signs Project (Added 12/22, though in-progress for years)

Design consultant (Gigantic) has finalized proof for signs along US 52. Working on dimensioning and production estimates. **I will be meeting next week on-site with Gigantic to right-size the various signs in their locations in preparation for production.**

#### Hwy 52/136 Manhole Replacement at 2<sup>nd</sup> Avenue (Added November, 2021)

It was determined that moving this manhole out of the center of the highway was going to be too expensive. The best solution is to simply replace the manhole with a new one. **I met with the Iowa DOT and the contractor to work out the details of what will be needed in order to obtain the permit. Traffic control, interaction with the railroad, and pavement replacement specifications are going to be key,**

#### Downtown Businesses Accessibility – (Added June, 2021)

Working toward including recommendations into the sidewalk program.

#### Legacy Square – Stage (Added Spring 2021)

Project is set to be constructed this spring. **We had a preconstruction conference Thursday. The Contractor plans to have the stage ready for FarmTek to install the cover structure by the middle of May, with completion the end of May.**

### Status of Improvement Projects – ‘Outside Design’

#### 1<sup>st</sup> Avenue West Bridge Over Bear Creek (Added April 2023)

**WHKS is making good progress on the design and plans. Completion is expected in the next several weeks. Once approved, we can plan for bidding.**

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

Draft plans and specs for Contract B (RISE) were submitted to the City of Dyersville and DEDC for review in November. After minor revisions, plans will be submitted to Iowa DOT for a 30 day review. Local bid date is anticipated to be in April. Construction could begin in June. Completion is set for October 2023. Origin will provide and administer construction admin and observation as required during construction.

#### 1<sup>st</sup> Avenue Bridge – Repair or Replacement (Added May, 2022)

Design is in-process.

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

Awaiting 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 wrapping up. **Construction on Contract C Water Pumping Station with F.L. Krapfl has started and is moving forward rapidly.** Construction for Contract D Lift Station and Linear Sewer Onsite is **getting close to completion.** Work has started on the Sanitary Sewer and Force Main (EDA Contract). Contract E with Top Grade Excavating **has multiple crews on-site that are making great progress.**

Heritage Trail Pavement Extension (Added to list January, 2020)

Preconstruction meeting was held in late February. Anticipate construction beginning in April and lasting through May. **Construction has begun.**

Bear Creek Restoration (SRF Sponsored Project)

The Contractor will perform summer mowing and vegetation management in 2022 and 2023 for maintenance. Typical prairie seeding takes 3 years to be fully established with intended growth of flowers and grasses. A video camera is 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:** April 6th, 2023  
**Subject:** **Water Operation March 2023 Report**

## **Water Pumped**

Total Water Pumped for Month	10,278,000 Gallons
Average Pumped per Day	332,000 Gallons
Maximum Daily Pumped	426,000 Gallons

## **Chlorine Testing**

Average Free Chlorine in the System –	1.84 mg/l
Average total Chlorine in the System -	1.92 mg/l

## **Polyphosphate**

Average Residual at Well #4&#5	1.29 mg/l
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## **Water Call Outs**

0 for the month  
Total for the year – 4

## **Water Main Breaks**

0 for the month  
Total for the year – 2

## **Water Activities**

62- Line Locates Completed  
53-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. Lori, Mick and myself started implementing the first phase of the Lead Service Line Inventory (LSLI) mandated by the EPA. Lori mailed 800 out of the 1800+ notices to homeowners/businesses asking them to help with recognizing what type of water service line they have present in their home or business. They can either fill out the form that was mailed to them or go to the City of Dyersville Web site and complete the form on line at <http://www.cityofdyersville.com/225/utilities> . The reply has been good so far and Lori will continue to mail out notices and hopefully we will keep getting a good response from the homeowners. We have until October 2024 to complete the inventory for the EPA.

Water Operator,  
Terry Recker

# Memorandum

**To:** Mayor, City Council Members and City Administrator  
**From:** Wastewater Operator  
**Date:** 04/11/2023  
**Subject:** **Wastewater Operations –**

## **Influent Flows**

Total Treated for Month 17,537,000 Gallons  
Average Flow per Day 618,000 Gallons  
Maximum Daily Flow 752,000 Gallons  
Average Influent Biochemical Oxygen Demand 196 mg/l  
Plant loading pounds per day of 925 lbs. plant design loading 2400 lbs. per day  
Average Influent Total Suspended Solids 267 mg/l.  
Plant loading pounds per day 1215 lbs. plant design loading 3600 lbs. per day.  
Average Influent Total Nitrogen 27 mg/l  
Plant loading pounds per day 147 lbs.  
Average Influent Phosphorous 5.4mg/l.  
Plant loading pounds per day 28 lbs.

## **Effluent Testing**

C.B.O.D. Monthly Average	0 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	4.5 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.16 mg/l	Limit – 13 mg/l
Total Nitrogen	9.9 mg/l	Suggested Limit 10mg/l
Phosphorus	0 mg/l	Suggested Limit 1 mg/l
E-coli	NA mg/l	Limit 126 MPN

**Sewer Call Outs** – 3 for the month at the Treatment Plant.  
Total for the year = 5

We had some issues with flooding which were resolved without any issues. And with the Storm we lost complete power to the plant. Without power to either side of MV's power switch they were unable to keep us online. The plant was down for roughly an hour. Went through the plant to reset the system and check for damage. One of the surge protectors was making some noise so I had terry checking it out. Everything tested out ok. And other than that working on spring work around the plant and work on maintenance.