



340 1st Avenue East, Dyersville, Iowa 52040 • Phone: 563-875-7724 • Fax: 563-875-8238

www.cityofdyersville.com

To: Mayor Jacque and City Council Members
Cc: Mick Michel, City Administrator
From: John F. Wandsnider, PE – Public Works Director/City Engineer
Date: July 13, 2023
Subject: Public Works Report: June 14 – July 12, 2023

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

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

Mike Maahs and TJ Vorwald, along with part-time summer help, continue to do an excellent job with normal summertime and regular activities on the streets, parks and trails. We completed applying weed-control in the many areas where needed. Street-sweeping is a continual effort as well.

We have had micro-surfacing done to a number of alleys in the southeast part of town, and have placed a second layer on the parking area near the playground at Westside Park. We continue to advance our street resurfacing program on the older asphalt streets as well. We will be starting pavement marking in the coming weeks.

Operation and Maintenance of Drinking Water and Wastewater Disposal Systems, and the Aquatic Center

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, along with part-time summer help. They have been working to maintain the system, including flushing fire hydrants and exercising water valves. Swimming pool maintenance is also a continual effort. 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. A total of 66,861 feet of sanitary sewer main, primarily in the southwest part of town, was cleaned, and 302 manholes were inspected with the use of the rented sewer vac/jetter truck. For further details on this and other operations, please refer to the below report for last month from Wastewater Operations.

Status of Improvement Projects – ‘In-House Design’

Downtown Streetscape Rehabilitation (Added 4/23)

Work continues on this project.

5th Avenue NE - Dyersville East Rd (Added 2/23)

Good news! Dyersville was awarded the \$25,000 grant from Dubuque County for this project! More on this elsewhere in the packet. We plan to construct this project this construction season.

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

We have the posts and hardware in our possession. We anticipate the signs to start arriving this week or early next week and will begin the installation process.

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

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. This work is planned for August or September.

Downtown Businesses Accessibility – (Added June, 2021)

Working toward including recommendations into the sidewalk program.

Legacy Square – Stage (Added Spring 2021)

This project is nearly complete. Lights have yet to be installed.

Status of Improvement Projects – ‘Outside Design’

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

Contract A including sanitary sewer and water has been completed. Contract B that includes grading and erosion control is substantially complete. Contract C (RISE eligible) will include a double box culvert and is planned to be bid in August with 2023 construction. Contract D (also RISE eligible) including roadway storm sewer, concrete paving, and lighting will be bid this year and should be substantially complete by June 30, 2024. Origin will provide and administer construction admin and observation as required during construction.

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

Bids were received. More on this from WHKS at the meeting...

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)

Most of the linear projects are nearly finished. Work continues on the wastewater lift station and the water booster station.

Heritage Trail Pavement Extension (Added to list January 2020)

Bear Creek Restoration (SRF Sponsored Project)

Construction for this project is complete. The contractor will perform mowing and vegetation management in 2023 for maintenance on the wetland prairie. Typical prairie seeding takes 3 years to be fully established with intended growth of flowers and grasses. The project performed well to capture sediment without significant channel erosion in the 2023 spring flood. 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

Email: jwandsnider@cityofdyersville.com cell: 563-587-9131

Memorandum

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

Water Pumped

Total Water Pumped for Month	15,682,000 Gallons
Average Pumped per Day	523,000 Gallons
Maximum Daily Pumped	710,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	1.91 mg/l
Average total Chlorine in the System -	1.99 mg/l

Polyphosphate

Average Residual at Well #4	0.94 mg/l
--------------------------------	-----------

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

128- Line Locates Completed
47-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 and I decided with all the extra water we were using because of the drought conditions we only flushed 47 dead-end hydrants instead of the whole town to conserve water and chemicals. We have been using between 100-150,000 gallons of water a day more during the drought. We will wait until the fall to flush all 300+ hydrants in the system.

Water Operator,
Terry Recker

Memorandum

To: Mayor, City Council Members and City Administrator
From: Wastewater Operator
Date: 7/13/2023
Subject: **Wastewater Operations –**

Influent Flows

Total Treated for Month 12,652,000 Gallons
Average Flow per Day 421,000 Gallons
Maximum Daily Flow 530,000 Gallons
Average Influent Biochemical Oxygen Demand 244 mg/l
Plant loading pounds per day of 906 lbs. plant design loading 2400 lbs. per day
Average Influent Total Suspended Solids 307 mg/l.
Plant loading pounds per day 1102 lbs. plant design loading 3600 lbs. per day.
Average Influent Total Nitrogen 33.7 mg/l
Plant loading pounds per day 138 lbs.
Average Influent Phosphorous 7.60 mg/l.
Plant loading pounds per day 31 lbs.

Effluent Testing

C.B.O.D. Monthly Average	2.2 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	.8 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.06 mg/l	Limit – 5.8 mg/l
Total Nitrogen	14lbs per day	Yearly Average 88lbs per day
Phosphorus	2.61lbs per day	Yearly Average 24lbs per day
E-coli	7 mg/l	Limit 126 MPN

Sewer Call Outs – for the month at the Treatment Plant.
Total for the year – 8

Finished up sewer jetting. So for the month of May, we 37730ft of main and 187 manhole inspections and for the month of June 29,131ft of main and 115 manhole inspection for a total of 66,861ft of main cleaned and 302 inspections were completed. While the truck was here in June, I went through and inspected the storm sewer check valve and clean out 3 of the pits of sand and other debris. Also jetted some storm sewer pipe that needed cleaning after the spring flooding. Deep cleaned all of the lift stations.

While we were jetting, we came across a bunch of manhole and pipes that were in serious need of attention most were 90% blockage and we have made note of these locations and plan to monitor those, so we don't have any serious blockages. And continued Monthly Maintenance and day to day operations.