



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

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To: Mayor Jacque and City Council Members
Cc: Mick Michel, City Administrator
From: John F. Wandsnider, PE – Public Works Director/City Engineer
Date: November 14, 2024
Subject: Public Works Report: October 16 – November 13, 2024

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

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

The streets and fleets arm of Public Works is doing an excellent job with normal Fall and winter-preparation activities in the operations and maintenance of Dyersville's pavement and drainage systems and equipment. We have been sweeping leaves and will continue sweeping until a majority of the leaves have fallen. Our winter-response equipment has been made ready - the two plow/spreader trucks, two plow/dump trucks, the front-end loader, and the skid-loader are all ready for the heavier work-load they are needed for over the winter. Some of the public works personnel have received training in winter maintenance as well.

Lights at Candy Cane and West Side Parks are up. The controller and conductors are being installed. The accessibility improvements to West Side Park have also been completed. Special thanks to Terry Recker, Joe Reicher, and Tanner Lueck in the excellent work and dedication in installing the lights and equipment.

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. The wastewater collection, pumping, treatment, and disposal systems are also operating well. Please refer to the Water and Wastewater reports for October, below.

As is mentioned in the Wastewater report, Dyersville's current NPDES permit will expire on April 30, 2025. This permit, which is good for 5 years, gives Dyersville the right to discharge its treated wastewater into the North Fork Maquoketa River. As stated in a letter received from the Iowa DNR in March, 2024:

"State and federal regulations require your facility to apply for renewal of your National Pollutant Discharge Elimination System (NPDES) permit at least 180 days before the existing permit expires. Our records show that your permit expires on April 30, 2025. Therefore, a permit application will need to be completed, signed, and submitted by November 1, 2024."

The Public Works wastewater operations team and I prepared the renewal application documents and submitted them to the Iowa DNR on October 31, 2024. Special thanks to Tim Herbers, Terry Menke, and Joe Reicher for their considerable effort and excellent work in gathering the needed information and preparing the bulk of the application documents.

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

Improvement and Expansion Projects

Field of Dreams Entrance Road (added 11/24)

The City will be engineering this project in-house. My design team and I met with the team from Origin Design Tuesday morning to transition this portion of the project to the City. Survey work will be underway shortly and design will follow. We intend to have the plans/specs ready to release for bidding in January.

Castle Hill – 4th Addition (added 7/24)

A majority of the utilities and the paving have been completed. The developer's engineer has maintained a presence on the site when appropriate to help to ensure a quality product.

Lake View Estates (added 7/24)

The utilities and the paving have been completed. The developer's engineer has maintained a presence on the site when appropriate to help to ensure a quality product.

1st Avenue West - Old Highway Road - Rehabilitation (Added 2/24)

Meeting with Street Committee is being scheduled.

Downtown Streetscape Rehabilitation (Added 4/23)

The contractor returned to finish the improvements and clean things up. We are planning to finish the east side of the river in FY-25, and the west side on FY-26.

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

We are meeting to further define the scope of this project. It is important that we replace any of the failing sewer infrastructure beneath US 52 while we have the traffic detoured. Meeting with the DOT in the near future as well. Plan is for work to be done in May, 2025.

Downtown Businesses Accessibility – (Added June, 2021)

We are planning to meet with the building-owners in the next week to present the improvement project.

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

Paving has been complete. Lights are all that remain.

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

A map showing areas requiring attention has been prepared by the engineer. Work is expected this **fall**. 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)

Substantial completion has been issued for the Contract E Water and Sewer project.

- END -

Memorandum

To: Mayor, City Council Members and City Administrator
From: Terry Recker, Water Operator
Date: November 5th, 2024
Subject: **Water Operation October 2024 Report**

Water Pumped

Total Water Pumped for Month	13,843,000 Gallons
Average Pumped per Day	447,000 Gallons
Maximum Daily Pumped	617,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	1.74 mg/l
Average total Chlorine in the System -	1.81 mg/l

Polyphosphate

Average Residual at Well #4	1.14 mg/l
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Water Call Outs

0 for the month
Total for the year – 0

Water Main Breaks

0 for the month
Total for the year – 0

Water Activities

94-Line Locates Completed
30-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. Most of this month Joe and I worked ball field lighting and walkway lighting at Westside and Candy Cane parks.

Water Operator in Charge,
Terry Recker

Memorandum

To: Mayor, City Council Members and City Administrator
From: Wastewater Operator
Date: 11/06/2024
Subject: **Wastewater Operations –**

Influent Flows

Total Treated for Month 13,789,000 Gallons
Average Flow per Day 444,000 Gallons
Maximum Daily Flow 616,000 Gallons
Average Influent Biochemical Oxygen Demand 232 mg/l
Plant loading pounds per day of 966 lbs. plant design loading 2400 lbs. per day
Average Influent Total Suspended Solids 162 mg/l.
Plant loading pounds per day 656 lbs. plant design loading 3600 lbs. per day.
Average Influent Total Nitrogen 30 mg/l
Plant loading pounds per day 128lbs.
Average Influent Phosphorous 30 mg/l.
Plant loading pounds per day 127lbs.

Effluent Testing

C.B.O.D. Monthly Average	.70 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	1.0 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.47 mg/l	Limit – 13 mg/l
Total Nitrogen	15lbs per day	Yearly Average 88lbs per day
Phosphorus	.78lbs per day	Yearly Average 24lbs per day E-coli
Not tested this month	mg/l	Limit 126 MPN

Sewer Call Outs – 2 for the month at the Treatment Plant.
Total for the year – 7

We had some issues with the main lift stations this month causing some dissolved oxygen problems in the oxidation ditch. Nothing that put us out of compliance with the DNR because it was caught in time. With the age of plant and having the original equipment it seems like this is happening more, so we are looking into a few other updates to keep the plant running smoothly.

November was a busy month, we had the jetter truck from Mcqueens. And with the jetter we were able to clean around 45,000ft of main. It was helpful in our heavy tree root areas and heavy grease areas.

And the rest of the time was spent getting the plant ready for winter and we had to submit the plant permit renewal by November 1st which took some time and testing to complete, but it was completed and turned in on time.