

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. Also, with the onset of favorable weather, construction season has ramped up, and a lot of improvements are underway.

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

Mike Maahs and TJ Vorwald continue to do an excellent job with the streets, parks, and equipment. They have been busy this month with the normal spring-time activities. The Street Department worked on signs, removing and putting away snow-removal equipment, sweeping streets, cold patching-pot holes, etc. Water main breaks pavement patches and other patches were completed earlier in the month. They continue to impress me with their talents!

The city's parks and FEMA buy-out properties have been sprayed for dandelions and weed control. The banks of the rivers and creeks will be sprayed in a couple weeks. TJ has been helping Adam get the parks into shape as well as making some improvements (Adam will have more on this).

One part-time summer helper will be starting on Monday, and the second within a few weeks. As in the past, summer staff really help out with the busy summertime workload in Public Works and the Parks.

We have a good inventory of mulch and compost at the WWTF.

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. They are also working to get the pool ready as well as working on the electrical related to the Legacy Square project – multi-talented! 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. They have identified some needs at the wastewater treatment plant and are working to determine costs. They will be cleaning sewers with the rented jetter/vac-truck over the next month or so as well – they can do anything! 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.

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

Grant application for up to \$25,000 was submitted to RPA 8. **We expect to hear the results in June.**

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

We have ordered all the sign posts and hardware. We expect delivery around the end of the month. The Design consultant (Gigantic Design) has been working to get cost estimates for sign production. We anticipate signs by the end of the month as well. We expect it will take approximately 2 weeks to install the signs.

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

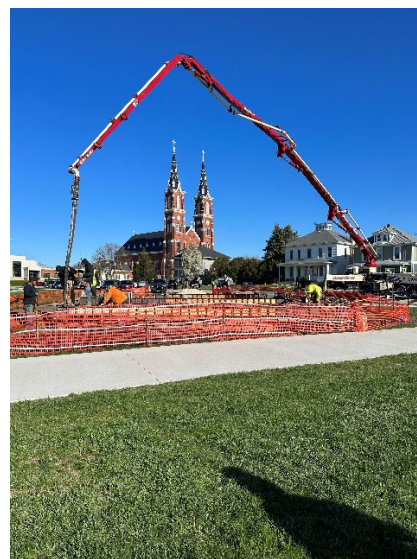
It was determined that moving this manhole out of the center of the highway was going to be too expensive. The best solution is to simply replace the manhole with a new one. I met with the Iowa DOT and the contractor to work out the details of what will be needed in order to obtain the permit. Traffic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

Work is progressing and is on-schedule for completion this month (see photos).



Status of Improvement Projects – ‘Outside Design’

1st 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 **June**. Construction could begin in **late July**. Completion is set for **November 2023**. Origin will provide and administer construction admin and observation as required during construction.

1st 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)

Construction is nearly completed. Should be done by the end of the month (see photos).



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

Memorandum

To: Mayor, City Council Members and City Administrator
From: Terry Recker, Water Operator
Date: May 8th, 2023
Subject: **Water Operation April 2023 Report**

Water Pumped

Total Water Pumped for Month	10,241,000 Gallons
Average Pumped per Day	341,000 Gallons
Maximum Daily Pumped	496,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	1.85 mg/l
Average total Chlorine in the System -	1.95 mg/l

Polyphosphate

Average Residual at Well #4	0.71 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

98- Line Locates Completed
39-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 started to get the pool ready for the season. We replaced the old water features pump with a new one which required re-piping the water lines and upgrading the electrical to the motor. The new features should be installed before opening on Memorial Day weekend.

Water Operator,
Terry Recker

Memorandum

To: Mayor, City Council Members and City Administrator

From: Wastewater Operator

Date: 5/12/2023

Subject: **Wastewater Operations –**

Influent Flows

Total Treated for Month 14,066,000 Gallons

Average Flow per Day 468,000 Gallons

Maximum Daily Flow 594,000 Gallons

Average Influent Biochemical Oxygen Demand 343 mg/l

Plant loading pounds per day of 1412 lbs. plant design loading 2400 lbs. per day

Average Influent Total Suspended Solids 490 mg/l.

Plant loading pounds per day 1987 lbs. plant design loading 3600 lbs. per day.

Average Influent Total Nitrogen 32.8 mg/l

Plant loading pounds per day 145 lbs.

Average Influent Phosphorous 7.40 mg/l.

Plant loading pounds per day 32 lbs.

Effluent Testing

C.B.O.D. Monthly Average	1.6 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	3.6 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.02 mg/l	Limit – 13 mg/l
Total Nitrogen	7.95 mg/l	Suggested Limit 10mg/l
Phosphorus	.53 mg/l	Suggested Limit 1 mg/l
E-coli	35.2mg/l	Limit 126 MPN

Sewer Call Outs – 1 for the month at the Treatment Plant.

Total for the year – 8

Routine Maintenance of the plant. That cold snap shook the plant up, but we are on the rebound. We did drain the water out of the west side ox ditch and out of both westside clarifiers for the summer. And in doing that we have noticed with the age of the west side of the plant we are going to need to do some updating soon do the atmosphere of wastewater. The baffles in the clarifiers are rotted through and the epoxy paint is flaking off. So, we are looking into cost estimates. And we are also looking into cost estimates for our grit system at the plant. With it being in the pit and with the wet atmosphere the pipes and brackets and the pump itself are just plain falling apart. And with us coming closer to having to put that side of the plant back in service we would like to have these updates completed so plant is ready. It was good they lasted 20+ years but it is time for replacements.