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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: April 11, 2024
Subject: Public Works Report: April 11 – May 14, 2024

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.

The streets and fleets arm of Public Works is doing an excellent job with the operations and maintenance of Dyersville's street systems and equipment. We 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.

The city's parks and FEMA buy-out properties have been fertilized and sprayed for weed control. The banks of the rivers and creeks will be sprayed for weeds in a couple weeks. We have also been helping Adam get the parks into shape as well as making some improvements.

One part-time summer helper will be starting on Tuesday, 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.

Operation and Maintenance of Drinking Water Delivery and Wastewater Disposal Systems

Elsewhere in the City Council Packet, you will find my report regarding the recent low water pressure incident. Aside from this, 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 below reports from water and wastewater operations, respectively.

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

Statuses of Improvement Projects

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

See separate report in this council packet.

Downtown Streetscape Rehabilitation (Added 4/23)

A majority of the downtown streetscape is 20 years old this 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 3rd and the 4th 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 is expected to begin in May.

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

The DOT requires engineered construction plans with a complete traffic-control plan in order to issue a permit for this work to be done. Design work is proceeding and plan drawings are in production for construction this summer.

Downtown Businesses Accessibility – (Added June, 2021)

I attended a class in Ames, Iowa a couple weeks ago that will help in identifying and developing the needed improvements. Mike Murphy and I plan to meet on Monday or Tuesday.

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

Contract D including roadway storm sewer, concrete paving, and lighting is planned for bidding on May 1. Construction will occur this summer.

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

Contractor plans to move in by week-end and should be done within a couple weeks. The sidewalk on the bridge will need to be closed for much of the time.

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 spring/**summer**. 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 C Water Pumping Station start-up was completed successfully, with only minor issues to be addressed. Construction for Contract D Lift Station and Linear Sewer Onsite with Portzen Construction is substantially complete with some punch list items remaining to be completed. 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 has been completed.

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 2nd, 2024
Subject: **Water Operation April 2024 Report**

Water Pumped

Total Water Pumped for Month	12,674,000 Gallons
Average Pumped per Day	422,000 Gallons
Maximum Daily Pumped	626,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	1.85 mg/l
Average total Chlorine in the System -	1.99 mg/l

Polyphosphate

Average Residual at Well #4	0.94 mg/l
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Water Call Outs

1 for the month
Total for the year – 7

Water Main Breaks

1 for the month
Total for the year – 8

Water Activities

89-Line Locates Completed
34-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. We were finally able to locate a water main leak we have been trying to find for the last 3 weeks with the help of the wastewater department. Tim was televising sewer mains on 4th street SW on April 12th and noticed more water than normal flowing through the sewer line. Once Tim opened the manhole on top of the hill there was a lot of water flowing into it. He knew we have been looking for a water break somewhere in town and since he could smell chlorine in the manhole, he knew he found it. Krapfl Construction was able to come in and repair the water main. (Pictures below)

Water Operator,
Terry Recker



Memorandum

To: Mayor, City Council Members and City Administrator
From: Wastewater Operator
Date: 05/11/2024
Subject: **Wastewater Operations –**

Influent Flows

Total Treated for Month 14,147,000 Gallons
Average Flow per Day 471,000 Gallons
Maximum Daily Flow 687,000 Gallons
Average Influent Biochemical Oxygen Demand 168 mg/l
Plant loading pounds per day of 671 lbs. plant design loading 2400 lbs. per day
Average Influent Total Suspended Solids 164 mg/l.
Plant loading pounds per day 658 lbs. plant design loading 3600 lbs. per day.
Average Influent Total Nitrogen 24 mg/l
Plant loading pounds per day 100 lbs.
Average Influent Phosphorous 2.71 mg/l.
Plant loading pounds per day 11 lbs.

Effluent Testing

C.B.O.D. Monthly Average	1.4 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	6.1 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.65 mg/l	Limit – 14.9 mg/l
Total Nitrogen	36lbs per day	Yearly Average 88lbs per
Phosphorus	3.2lbs per day	Yearly Average 24lbs per
E-coli (April-November)	12.1 ml	Limit 126 MPN

Sewer Call Outs – 1 for the month at the Treatment Plant.
Total for the year – 3

Routine System Maintenance. We are looking into lining up a sewer jetter truck for system cleaning. And still working on quotes for repairs that are needed to get the west plant back to operational condition.

We did have a sewer back up at 525 2nd Ave SE. After jetting the line and clearing the blockage we were able to camera the line to discover that in the construction stages of 2nd Ave SE there was a temporary sewer connection made that was never completed which cause the back up. And we are in the process of lining that up to be fixed.

And while we are doing sewer line inspections, we came across a broke clay sewer line on 9th Ave SW that we are looking to get repaired at the same time.