



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: June 13, 2024
Subject: Public Works Report: May 14, 2024 – June 12, 2024

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

Flood of June 3, 2024

As you know, it has been a very wet spring. Rainfall over the weekend, and especially heavy rains north of Dyersville for much of the day Monday, June 3 eventually led to some fairly minor flooding of the park areas and of 3rd Street SW for a brief period of time on Monday and Tuesday. The PD first closed 3rd Street at around 8:30 pm on Monday night. It was opened again some time before dawn. We had to close it again for about 45 minutes, later in the day, to power-wash the mud off the pavement.

In floods of the recent past, (Fall, 2019, for example) river and creek water came out of the storm sewer intakes in several locations. This was primarily due to failures of the flood gates to operate properly and hold the river/creek water back. This caused the streets to have to be closed prematurely.

Over the past few years, Public Works has done considerable repair and maintenance work to the floodgates around town. As a result, we were happy to report that our floodgates performed well last week. Water did not make it to the streets through the storm sewer – it had to find its way overland before it could make it to 3rd Street. And there was little if any flood water on 1st St. SW or 3rd Ave. SW.

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 pavement and drainage systems and equipment. We have been busy this month updating and installing signs, spraying weeds, sweeping streets, filling pot-holes, managing flags, and lots of odd-and-ends.

Public Works staff has been helping Parks and Rec with a number of maintenance and improvement projects as well as other items to prepare for tournaments and get other facilities ready. Parks and FEMA Buyout properties were sprayed for weeds. The weeds along the creeks and rivers will be safely sprayed next week by the licensed and certified specialist that we contract with. This is required at least twice a year to stay ahead of the weeds.

Our two part-time summer helpers began work over the last few weeks. Public Works and Parks & Rec share them in the street, parks, water, and sewer departments. Part-time summer employees work out great and help us to get more caught-up on various projects with the ever-increasing workload we encounter each year.

In order to provide the same service-level with 5 operators as opposed to 6, we have made a few adjustments to our operations. We hired the in-town pavement marking to be done by a contractor rather than do it ourselves. We have also decided to hire a part-time seasonal person, who possesses a current Commercial Drivers License (CDL), to operate the Street Sweeper. In order to keep our streets clean, we need to run the sweeper at least 1 full week out of every month. Consideration of hiring this person is covered elsewhere in your packet.

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 below reports from water and wastewater operations, respectively.

We have a good inventory of compost available to the public at the wastewater treatment plant. However, our mulch supply has dwindled to nothing over the past several weeks. And the ‘supply’ of tree and shrub material has been overflowing. Fortunately, our grinding vendor is here this week!

Statuses of Improvement Projects

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

Meeting is being scheduled w Street Committee.

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 started yesterday and is expected to be completed next week.**

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)

Design and cost estimating work is proceeding. We plan to have plans and estimates ready within a few weeks.

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

The pre-construction conference was conducted a few weeks ago. Work is planned to begin July 8.

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

Rehab work has been completed. Contractor will be back to restore the rip-rap.

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.

- END -

Memorandum

To: Mayor, City Council Members and City Administrator
From: Terry Recker, Water Operator
Date: June 12th, 2024
Subject: **Water Operation May 2024 Report**

Water Pumped

| | |
|------------------------------|--------------------|
| Total Water Pumped for Month | 13,537,000 Gallons |
| Average Pumped per Day | 437,000 Gallons |
| Maximum Daily Pumped | 715,000 Gallons |

Chlorine Testing

| | |
|--|-----------|
| Average Free Chlorine in the System – | 1.69 mg/l |
| Average total Chlorine in the System - | 1.74 mg/l |

Polyphosphate

| | |
|--------------------------------|-----------|
| Average Residual at Well #4 | 0.62 mg/l |
|--------------------------------|-----------|

Water Call Outs

1 for the month
Total for the year – 8

Water Main Breaks

0 for the month
Total for the year – 8

Water Activities

98-Line Locates Completed
41-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. There was a water pressure loss in the system that resulted in a boil order being mandated on May 19th. There was a loss of communication between the water tower and well #4 that didn't let the well pump water to the tower. It was discovered that the auto dialer that should have called to tell us of the communication error did not work. Since the pressure loss we have replaced the defective auto dialer with a new cellular one that is the same as all the other auto dialers in the water and waste water departments.

Water Operator,
Terry Recker

Memorandum

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

Influent Flows

Total Treated for Month 18,362,000 Gallons
Average Flow per Day 592,000 Gallons
Maximum Daily Flow 1,085,000 Gallons
Average Influent Biochemical Oxygen Demand 163 mg/l
Plant loading pounds per day of 833 lbs. plant design loading 2400 lbs. per day
Average Influent Total Suspended Solids 226 mg/l.
Plant loading pounds per day 1273 lbs. plant design loading 3600 lbs. per day.
Average Influent Total Nitrogen 36 mg/l
Plant loading pounds per day 181 lbs.
Average Influent Phosphorous 5.2 mg/l.
Plant loading pounds per day 27 lbs.

Effluent Testing

| | | |
|--------------------------|-----------------|------------------------------|
| C.B.O.D. Monthly Average | 0 mg/l | Limit - 25 mg/l |
| T.S.S. Monthly Average | 5.2 mg/l | Limit - 30 mg/l |
| Ammonia Monthly Average | 1.03 mg/l | Limit - 5 mg/l |
| Total Nitrogen | 30 lbs per day | Yearly Average 88lbs per day |
| Phosphorus | 2.6 lbs per day | Yearly Average 24lbs per day |
| E-coli | NA mg/l | Limit 126 MPN |

Sewer Call Outs – 0 for the month at the Treatment Plant.
Total for the year – 7

We had a busy month with maintenance and inspecting sewers with the camera. When we were inspecting, we found two broke mains and had Krapfl come in and dig up and repair. It was great they were able to get in and make the repairs and patch the roads back in all except on 9th Ave SW we were noticing the asphalt sinking away so we removed more asphalt replace with rock and are waiting for Kluesners to pave.

1. 9th Ave SW



2. 2nd Ave SE



And I know we have been receiving some complaints about the smell at WWTP. The smell is due to all the rain we have gotten. We run the sludge through the press to extract all the liquid that we can then we place it out on the sludge pad until the fall when we then land apply it. Unfortunately, with it not being under a roof to protect it from the elements, when we get hard or heavy rains it turns the crust that forms on the outside of the pile back into liquid form. With that crust that forms keep the smell inside the pile when you take that away the smell is released. We are currently trying to dry it back up some and push it back into a pile and dam it up with freshly dried sludge coming off the press.

