

**To:** Mayor Jacque and City Council Members  
**Cc:** Mick Michel, City Administrator  
**From:** John F. Wandsnider, PE – Public Works Director/City Engineer  
**Date:** August 15, 2024  
**Subject:** Public Works Report: July 11 – August 14, 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 summertime and regular activities in the operations and maintenance of Dyersville's pavement and drainage systems and equipment. Part-time staff Sarah and Dylan are heading back to school – they were done last Friday and this Wednesday, respectively. They were able to help us a lot – we will miss them.

With all the rain we have had this summer (recent weeks excepted), we have had a difficult time keeping up with the weeds along the streets and streams - they seem to be overpowering the treatments. We have been able to catch up with them with the recent dry weather, however. Maintenance work has been done on parking lots and signs as well. Another round of street-sweeping was performed last week.

**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 report for July and the Wastewater reports for June and July, below.

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

**Improvement and Expansion Projects**

**Castle Hill – 4<sup>th</sup> Addition (added 7/24)**

Construction of sanitary sewer and water main has begun. It is quite slow-going due to the presence of limestone bedrock very near to the surface in many areas. See below photos of some of the progress.





**Lake View Estates (added 7/24)**

**Contractor has begun installing sanitary sewer.**

**1<sup>st</sup> Avenue West - Old Highway Road - Rehabilitation (Added 2/24)**

**Meeting with Street Committee is being scheduled **for this fall**.**

**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 2<sup>nd</sup> 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.**

**Downtown Businesses Accessibility – (Added June, 2021)**

**Moving of the light was found to be infeasible. We have identified provisions in the national code that will allow us to construct the ramp past the light while remaining in compliance with requirements. We are still evaluating costs and options and plan to be able to present the project to the Street Committee soon.**

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

**The storm sewer has been completed and the contractor has been preparing for paving. Paving of the north half of the street began yesterday (Wednesday) but was rained out 2/3 of the way up the road. It is planned to be completed today. After 1 week of cure-time, the south half will be paved.**





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

**The rip-rap was restored and project is complete.**

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 – final contractor payment for retainage is being submitted to city. Construction for Contract D Lift Station and Linear Sewer Onsite with Portzen Construction is complete and we are working on final project closeout paperwork.**

- END -

# Memorandum

**To:** Mayor, City Council Members and City Administrator  
**From:** Terry Recker, Water Operator  
**Date:** August 7th, 2024  
**Subject:** **Water Operation July 2024 Report**

## **Water Pumped**

Total Water Pumped for Month	12,484,000 Gallons
Average Pumped per Day	403,000 Gallons
Maximum Daily Pumped	558,000 Gallons

## **Chlorine Testing**

Average Free Chlorine in the System –	1.49 mg/l
Average total Chlorine in the System -	1.49 mg/l

## **Polyphosphate**

Average Residual at Well #4&#5	1.19 mg/l
--------------------------------	-----------

## **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**

112-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 has been working on exercising valves this month. Mike Schroeder came back for a few days working on the LSLI. We are now under 90 service lines to complete.

Water Operator in Charge,  
Terry Recker

# Memorandum

**To:** Mayor, City Council Members and City Administrator  
**From:** Wastewater Operator  
**Date:** 07/12/2024  
**Subject:** **Wastewater Operations –**

## **Influent Flows**

Total Treated for Month 20,167,000 Gallons  
Average Flow per Day 672,000 Gallons  
Maximum Daily Flow 1,218,000 Gallons  
Average Influent Biochemical Oxygen Demand 165 mg/l  
Plant loading pounds per day of 995 lbs. plant design loading 2400 lbs. per day  
Average Influent Total Suspended Solids 151 mg/l.  
Plant loading pounds per day 943 lbs. plant design loading 3600 lbs. per day.  
Average Influent Total Nitrogen 22 mg/l  
Plant loading pounds per day 133lbs.  
Average Influent Phosphorous 21mg/l.  
Plant loading pounds per day 120lbs.

## **Effluent Testing**

C.B.O.D. Monthly Average	0 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	1.75 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	3.56 mg/l	Limit – 13 mg/l
Total Nitrogen	25.55 lbs. per day	Yearly Average 88lbs per day
Phosphorus	6.1 lbs. per day	Yearly Average 24lbs per day E-coli
	mg/l	Limit 126 MPN

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

We have been busy working on maintaining the plant. We have been out doing storm sewer inspections and out with the camera trailer inspecting sanitary sewers as well. The project of getting the west side of the plant is coming along just waiting for a few more quotes to come in. Each year we try to maintain a section of town to be cleaned with the rental jetter truck. That should hopefully be here sometime in the middle of July. We plan to work on the northwest side of town and down to 1<sup>st</sup> Ave as that is the section of town that is due.

# Memorandum

**To:** Mayor, City Council Members and City Administrator  
**From:** Wastewater Operator  
**Date:** 08/12/2024  
**Subject:** **Wastewater Operations –**

## **Influent Flows**

Total Treated for Month 19,490,000 Gallons  
Average Flow per Day 628,000 Gallons  
Maximum Daily Flow 967,000 Gallons  
Average Influent Biochemical Oxygen Demand 180 mg/l  
Plant loading pounds per day of 972 lbs. plant design loading 2400 lbs. per day  
Average Influent Total Suspended Solids 177 mg/l.  
Plant loading pounds per day 930 lbs. plant design loading 3600 lbs. per day.  
Average Influent Total Nitrogen 18 mg/l  
Plant loading pounds 111 per day lbs.  
Average Influent Phosphorous 3.8 mg/l.  
Plant loading pounds 22.67 per day lbs.

## **Effluent Testing**

C.B.O.D. Monthly Average	0 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	1.9 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.04 mg/l	Limit – 13 mg/l
Total Nitrogen	24lbs per day	Yearly Average 88lbs per day
Phosphorus	3.9lbs per day	Yearly Average 24lbs per day E-coli
	mg/l	Limit 126 MPN

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

Routine maintenance, we are trying to line up a sewer cleaner truck. We have been in contact with McQueens on our yearly truck rental, unfortunately when our date for delivery came up the truck came back with issues so we are waiting for the next available truck. We are getting closer to having all the numbers for the necessary repairs and updates to get the west plant ready and to be operated safely.