



# MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of  
Public Works

May 2022



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## EXECUTIVE SUMMARY

The May Public Works monthly report provides an overview of the month's activities and statistical data including safety training, wastewater treatment effluent quality, water production, billing and collection statistics for municipal services, maintenance activities, maintenance and repair costs vs. monthly thresholds, water treatment chemical costs, overall project cost and performance to annual budget.

After nearly 18 months on order, our striping paint arrived, and crews have begun street re-striping. We have received about 75% of our original order, the remainder is supposed to be delivered within the next few weeks.

As an update we did receive word that the new high service pump motors and variable speed drives for the water treatment plants are to ship on August 12<sup>th</sup>. This is the project council approved late last year and is being 50% funded by Ameren. Once again the microchip shortage has caused this long lead time in equipment manufacturing and delivery.

The City received news that they have been awarded a \$550,000 CDBG grant for the West Harlem water main replacement project. This award, along with the \$500,000 STAG grant award from Senator Durbin will fund a good portion of the project. The city has yet to receive instructions on accessing those funds, but the project is ready to go to bid once funds have been secured. Hopefully, we will see an excavator or two out on West Harlem yet this construction season.

There will be a bid advertisement for construction of a parking lot at the Maple City Dairy location published in the Review Atlas in July with an anticipated award ready for Council approval at the August 1<sup>st</sup> City Council meeting.

Please contact me at 309-734-4026 with any questions.

Regards, Andy

## 1. HEALTH & SAFETY

There were no safety incidents or near misses in May. With the COVID 19 pandemic affected everyone, our staff is updated regularly on any new policy change, preventative measures, and PPE. All staff members are practicing social distancing while at work to help prevent the spread of the virus.



## 2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged million gallons of treated wastewater in the month of May . There were three combined sewer overflow events in May . The weather station at the plant reported 3" of rain during the month. The Consolidated Plant continues to produce excellent effluent quality. The table below outlines the water quality vs. NPDES permit limits.

**Table 2-1: Water Quality vs. NPDES Permit Limits**

	<b>Monthly Average</b>	<b>Permit Limit</b>
Flow (MGD)	5.8	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chloride's mg/l	258	500
Suspended Solids mg/l	10	12

### 3. WATER TREATMENT

The water treatment plants produced 96 million gallons of finished water in May. Finished water quality met all standards per the Clean Water Act for drinking water. The table below outlines the chemical usage for ion exchange softening for the month.

**Table 3-1: Monthly Chemical Usage for Ion Exchange Softening**

	Daily Average	Monthly Total
Treated Water to System	3.2 MG	96 MG
Poly Phosphate Usage-lbs.	112 lbs.	3,358 lbs.
Salt Usage — tons	4.7	142 tons
Chlorine Usage - lbs.	123	3,664 lbs.

## 4. REVENUE COLLECTION

The table below outlines the revenue collected from the Municipal Services billings for the fiscal year.

**Table 4-1: FY to Date**

PAYMENT TOTALS 2022-2023 FISCAL YEAR										
MONTH	WATER	SEWER	INFRASTRUCTURE	RECYCLE	GARBAGE	YARD WASTE	SMITH BOND	SMITH SURCHARGE	OTHER	PENALTY
MAY '22	\$238,138.83	\$182,768.79	\$20,903.44	\$16,627.00	\$37,535.70	\$2,947.42	\$73,395.48	\$0.00	\$0.00	\$1,276.70
JUNE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JULY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AUGUST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SEPTEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
OCTOBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NOVEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DECEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JANUARY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FEBRUARY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MARCH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
APRIL '23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>YEAR TO DATE</b>	\$238,138.83	\$182,768.79	\$20,903.44	\$16,627.00	\$37,535.70	\$2,947.42	\$73,395.48	\$0.00	\$0.00	\$1,276.70
<b>TOTAL REVENUE</b>	\$573,593.36									

## 5. ANNUAL BUDGET – YEAR 10

The table below outlines the year end cost summary

**Table 5-1: Annual Budget**

<b>Budget Category</b>	<b>Month Budget</b>	<b>Month Actual</b>	<b>YTD Budget</b>	<b>YTD Actual</b>	<b>Annual Budget</b>	<b>Over (Under)</b>
Labor (D.L. + FB)	\$120,644	\$117,831	\$120,313	\$117,831	\$1,568,372	(\$2,482)
Utilities	\$3,036	\$1,309	\$3,028	\$1,309	\$39,471	(\$1,719)
Chemicals Costs	\$23,628	\$27,924	\$23,563	\$27,924	\$307,158	\$4,361
Maintenance\Repair	\$28,734	\$22,381	\$28,655	\$22,381	\$373,541	(\$6,274)
Sludge Disposal Costs	\$549	\$0	\$548	\$0	\$7,140	(\$548)
Lab Supplies\Equip	\$3,099	\$6,948	\$3,091	\$6,948	\$40,290	\$3,857
Office Supplies	\$1,695	\$3,686	\$1,690	\$3,686	\$22,031	\$1,996
Miscellaneous Expenses	\$3,742	\$5,718	\$3,732	\$5,718	\$48,648	\$1,986
Other Operating Costs	\$14,478	\$8,669	\$14,438	\$8,669	\$188,209	(\$5,769)
Overhead (G.A.)	\$27,242	\$26,607	\$27,168	\$26,607	\$354,149	(\$561)
Subtotal Year 9	<b>\$226,847</b>	<b>\$221,073</b>	<b>\$226,225</b>	<b>\$221,073</b>	<b>\$2,949,009</b>	(\$5,152)
Fixed Fee Year 9	\$16,333	\$15,917	\$16,288	\$15,917	\$212,329	(\$371)
<b>Total</b>	<b>\$243,180</b>	<b>\$236,990</b>	<b>\$242,514</b>	<b>\$236,990</b>	<b>\$3,161,338</b>	<b>(\$5,523)</b>



## 6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 131 preventative and corrective workorders in May

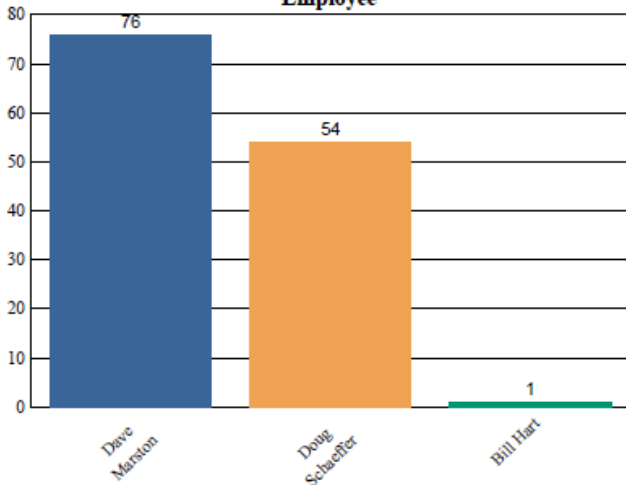


### Maintenance History Report Monmouth

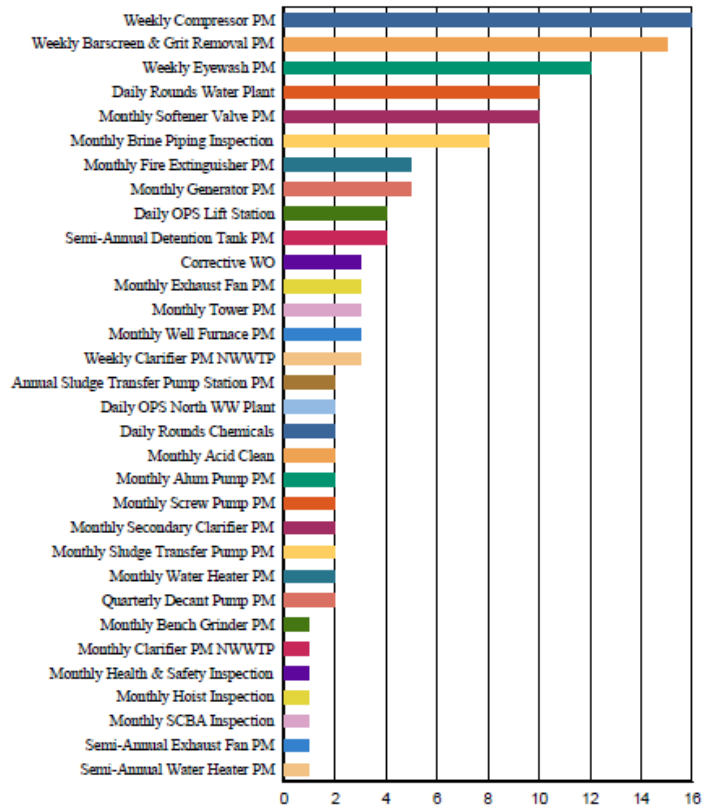
Report Start 5/1/2022  
Report End 5/31/2022

Work Orders by Type	Total
Administrative	2
Corrective Maintenance	21
Inspections	33
Preventative Maintenance	75
<b>Total</b>	<b>131</b>

**Work Orders by Employee**



**Work Orders by Description**





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