



# MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of  
Public Works

September 2023



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## EXECUTIVE SUMMARY

The September 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.

The council will be asked to approve the low responsible bid from Laverdiere Construction for the West Harlem Water Main Phase 1 replacement project. The City has been awarded the funding through a Community Development Block Grant and, a Community Projects General Infrastructure grant through State Senator Mike Halpin to assist in the cost of the project. Anticipate construction to begin after Thanksgiving weather providing.

Leaf collection began the last week of October. The new leaf vac manufacturer has indicated that the new machine wont be completed and delivered until around February, so we are running the old machine for one more season.

The seasonal mowing crew have been released from employment for this season.

John Deere Equipment delivered the new End Loader and Backhoe in October as the lease agreement provides for new machines every 5 years. By ordering them earlier we were able to keep the interest rate on the lease the same as in previous years, saving considerable money on the monthly lease payment.

Staff and representatives from Woodard & Curran Engineering met with representatives from the Galesburg Sanitary District, Warren County Soil & Water, Knox County Soil & Water, Smithfield, BNSF Railroad, Coppers Inc., all members of the Cedar Creek Watershed, along with a consultant from the Illinois Farm Bureau, to discuss the Nutrient Assessment Reduction Plan submittal that is due to the IEPA by the end of this year. Stakeholders are encouraged to have input in the development of a long-term plan to reduce nutrient loadings into the watershed. This group will continue to meet periodically to update progress and exchange information

Please contact me at 309-734-4026 if you have any questions,

Andy J

## 1. HEALTH & SAFETY

There were no safety incidents or near misses in September. Staff continues to complete monthly and annual training on the required OSHA topics.



## 2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 128 million gallons of treated wastewater in the month of September. There were 5 combined sewer overflow events in September. The weather station at the plant reported 3.3" of rain during the month. There were 2 combined sewer overflows 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)	4.26	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chloride's mg/l	364	500
Suspended Solids mg/l	8	12

### 3. WATER TREATMENT

The water treatment plants produced 97 million gallons of finished water in September. 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**

	<b>Daily Average</b>	<b>Monthly Total</b>
Treated Water to System	3.2 MG	97 MG
Poly Phosphate Usage-lbs.	100 lbs.	3,017 lbs.
Salt Usage — tons	5.3 Tons	159 tons
Chlorine Usage - lbs.	116 lbs.	3,498 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 2023-2024 FISCAL YEAR										
MONTH	WATER	SEWER	INFRASTRUCTURE	RECYCLE	GARBAGE	YARD WASTE	FARM BONDS	FARM SURCHARGE	OTHER	PENALTY
MAY '22	\$254,618.67	\$194,597.61	\$21,776.84	\$17,258.21	\$40,753.52	\$3,014.13	\$73,712.48	\$0.00	\$25.00	\$2,143.72
JUNE	\$306,748.36	\$215,042.28	\$20,455.77	\$16,525.79	\$38,457.22	\$3,475.31	\$73,545.48	\$876.71	\$125.00	\$2,472.98
JULY	\$311,499.08	\$209,473.53	\$21,176.82	\$16,925.78	\$39,309.81	\$3,726.01	\$73,545.48	\$330.20	\$130.59	\$2,777.33
AUGUST	\$316,148.55	\$216,056.15	\$22,487.58	\$18,368.16	\$40,304.47	\$3,671.52	\$73,545.48	\$311.02	\$30.78	\$1,759.27
SEPTEMBER	\$295,679.43	\$201,848.30	\$20,416.93	\$16,573.70	\$38,277.74	\$3,583.47	\$73,545.48	\$400.71	\$69.22	\$3,016.98
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>	<b>\$1,484,694.09</b>	<b>\$1,037,017.87</b>	<b>\$106,313.94</b>	<b>\$85,651.64</b>	<b>\$197,102.76</b>	<b>\$17,470.44</b>	<b>\$367,894.40</b>	<b>\$1,918.64</b>	<b>\$380.59</b>	<b>\$12,170.28</b>
<b>TOTAL REVENUE</b>	<b>\$3,310,614.65</b>									

## 5. ANNUAL BUDGET – YEAR 11

The table below outlines the month and annual 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)	\$163,211	\$170,776	\$716,161	\$714,280	\$1,697,394	(\$1,881)
Utilities	\$3,875	\$5,291	\$17,002	\$14,722	40,296	(\$2,280)
Chemicals Costs	\$35,449	\$37,743	\$155,547	\$163,786	368,667	\$8,239
Maintenance\Repair	\$36,271	\$36,482	\$159,156	\$180,686	377,220	\$21,530
Sludge Disposal Costs	\$0	\$0	\$0	\$0	0	\$0
Lab Supplies\Equip	\$5,115	\$11,208	\$22,443	\$28,854	53,193	\$6,411
Office Supplies	\$2,220	\$2,412	\$9,741	\$9,172	23,087	(\$569)
Miscellaneous Expenses	\$5,677	\$5,537	\$24,908	\$25,133	59,036	\$225
Other Operating Costs	\$20,944	\$42,049	\$91,900	\$143,329	217,815	\$51,429
Overhead (G.A.)	\$36,854	\$38,562	\$161,714	\$161,289	\$383,283	(\$425)
<b>Subtotal Year 11</b>	<b>\$309,614</b>	<b>\$350,060</b>	<b>\$1,358,571</b>	<b>\$1,441,251</b>	<b>\$3,219,990</b>	\$82,680
Fixed Fee Year 11	\$22,292	\$25,204	\$97,817	\$103,770	\$231,839	\$5,953
<b>Carryover Year 10</b>						\$16,723
<b>Total</b>	<b>\$331,907</b>	<b>\$375,265</b>	<b>\$1,456,388</b>	<b>\$1,545,022</b>	<b>\$3,451,829</b>	<b>\$105,356</b>



## 6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 198 preventative, corrective, and inspection work orders in September.

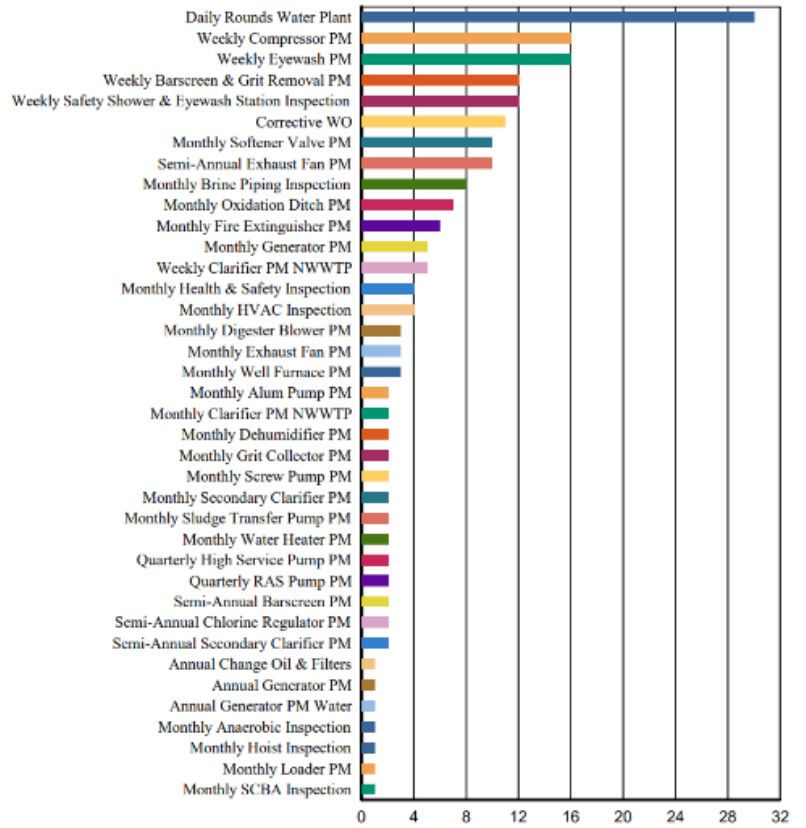


### Maintenance History Report Monmouth

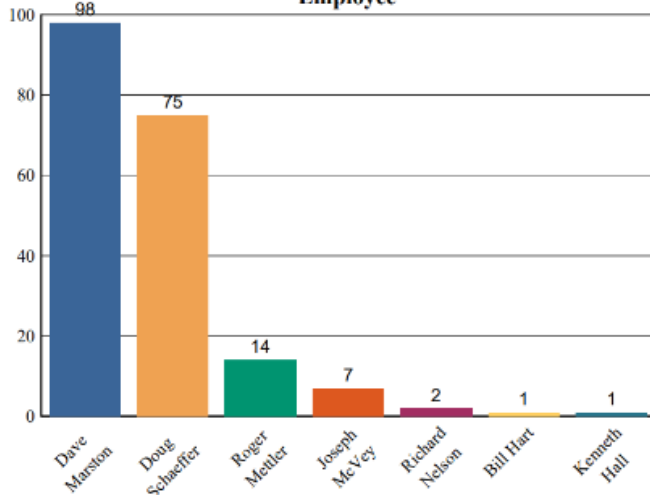
Report Start 9/1/2023  
Report End 9/30/2023

Work Orders by Type	Total
Corrective Maintenance	51
Inspections	39
Preventative Maintenance	108
<b>Total</b>	<b>198</b>

**Work Orders by Description**



**Work Orders by Employee**





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