



MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of
Public Works

December 2023



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EXECUTIVE SUMMARY

The December 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.

December was a normal routine month for all the departments. The mild weather conditions were helpful in moving along the construction work on West Harlem.

Updates for a number of upcoming capital projects will be presented at the February 5th Council meeting with action items for approval including, Well 11 bid, Downtown Square Utility replacement bid, and an engineering agreement with IMEG for completion of the design for West Harlem Road project. The City received word in January that IDOT has approved the Preliminary Design Report for the West Harlem Road project which included all the environmental clearances that are required when utilizing Federal Highway Administration funds.

The arrival of major back-to-back snowstorms in January and the below zero temperatures and wind chills that followed made things exciting for a couple of weeks. We went from winter season to pothole season in about a week as the thaw predictably caused the potholes to appear.

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 December. Staff continues to complete monthly and annual training on the required OSHA topics.



2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 127 million gallons of treated wastewater in the month of December. There were zero combined sewer overflow events in December. The weather station at the plant reported 3" of rain and 1 inch of snow 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

	Monthly Average	Permit Limit
Flow (MGD)	4.1	4.62
Ammonia N mg/l	0.3	1.5
CBOD5 mg/l	2	10
Total Phos	0.7	1
Chloride's mg/l	352	500
Suspended Solids mg/l	6	12

3. WATER TREATMENT

The water treatment plants produced 96 million gallons of finished water in December. 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	3.1 MG	96 MG
Poly Phosphate Usage-lbs.	88 lbs.	2,821 lbs.
Salt Usage — tons	4.7 Tons	146 tons
Chlorine Usage - lbs.	115 lbs.	3,555 lbs.

4. REVENUE COLLECTION

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

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	\$323,163.05	\$226,781.14	\$20,995.62	\$16,938.10	\$40,022.66	\$3,641.51	\$73,545.48	\$606.71	\$207.92	\$3,518.54
NOVEMBER	\$304,312.70	\$212,079.70	\$20,548.67	\$16,688.10	\$38,321.05	\$3,465.59	\$73,545.48	\$439.86	\$102.04	\$1,645.47
DECEMBER	\$299,384.74	\$218,892.92	\$20,568.22	\$16,437.22	\$39,117.88	\$3,494.83	\$73,545.48	\$1,115.42	\$390.00	\$2,583.53
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
YEAR TO DATE	\$2,411,554.58	\$1,694,771.63	\$168,426.45	\$135,715.06	\$314,564.35	\$28,072.37	\$588,530.84	\$4,080.63	\$1,080.55	\$19,917.82
TOTAL REVENUE	\$5,366,714.28									

5. ANNUAL BUDGET – YEAR 11

The table below outlines the month and annual cost summary.

Table 5-1: Annual Budget

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	Over (Under)
Labor (D.L. + FB)	\$163,211	\$156,821	\$1,139,347	\$1,108,253	\$1,697,394	(\$31,094)
Utilities	\$3,875	\$6,855	\$27,048	\$25,124	40,296	(\$1,924)
Chemicals Costs	\$35,449	\$33,650	\$247,461	\$252,529	368,667	\$5,068
Maintenance\Repair	\$36,271	\$36,704	\$253,202	\$245,094	377,220	(\$8,108)
Sludge Disposal Costs	\$0	\$0	\$0	\$0	0	\$0
Lab Supplies\Equip	\$5,115	\$6,878	\$35,705	\$46,089	53,193	\$10,384
Office Supplies	\$2,220	\$2,150	\$15,497	\$16,570	23,087	\$1,073
Miscellaneous Expenses	\$5,677	\$4,528	\$39,627	\$40,364	59,036	\$737
Other Operating Costs	\$20,944	\$11,507	\$146,204	\$183,148	217,815	\$36,944
Overhead (G.A.)	\$36,854	\$35,411	\$257,272	\$250,251	\$383,283	(\$7,021)
Subtotal Year 11	\$309,614	\$294,505	\$2,161,363	\$2,167,422	\$3,219,990	\$6,059
Fixed Fee Year 11	\$22,292	\$21,204	\$155,618	\$156,054	\$231,839	\$436
Carryover Year 10						\$16,723
Total	\$331,907	\$315,709	\$2,316,981	\$2,323,476	\$3,451,829	\$23,218

6. MAINTENANCE ACTIVITIES

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

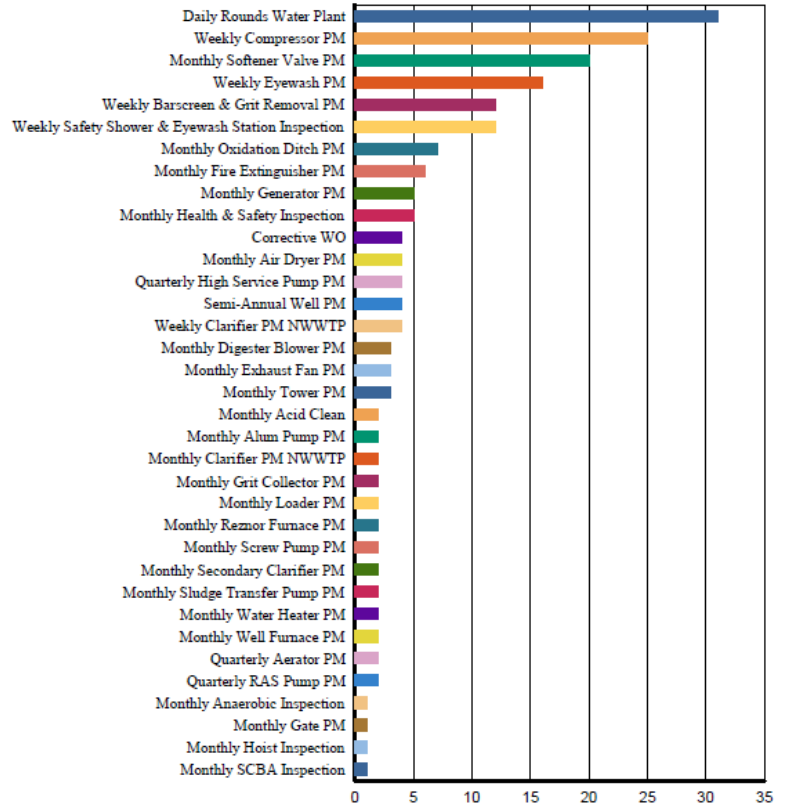


Maintenance History Report Monmouth

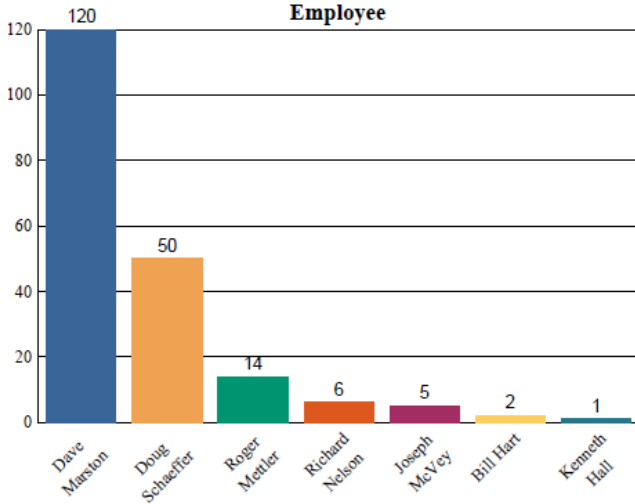
Report Start 12/1/2023
Report End 12/31/2023

Work Orders by Type	Total
Corrective Maintenance	49
Inspections	28
Preventative Maintenance	121
Total	198

Work Orders by Description



Work Orders by Employee





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