



MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of
Public Works

March 2023



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EXECUTIVE SUMMARY

The March 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 North 5th/East Clinton/North 3rd sewer project update: Laverdiere Construction has installed approximately 750 feet of new sewer and will complete the sewer main installation within a few days. Advanced Plumbing and Mechanical have begun connecting the 20 affected homes sewer laterals into the new sewer.

Marine Diving Solutions have repaired the leak on the West Harem water tower and repaired roughly 10 other corroded spots in the tower that were identified in the inspection report that need epoxy repairs.

The repair crew has begun the water softener vessel refurbishment at the North Water Treatment Plant.

Brandt Construction is tentatively planning to start back up on the MFT street program the week of May 8th weather providing.

There will be a bid opening on May 3rd for the East Euclid/North 6th water main replacement project. Council will be asked to approve the successful bidder at the May 15th meeting.

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



2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 196 million gallons of treated wastewater in the month of March . There were 2 combined sewer overflow events in March . The weather station at the plant reported 4" of rain and 10" 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)	6.3	4.62
Ammonia N mg/l	0.2	1.5
CBOD5 mg/l	2	10
Total Phos	0.6	1
Chloride's mg/l	273	500
Suspended Solids mg/l	4	12

3. WATER TREATMENT

The water treatment plants produced 99 million gallons of finished water in March. 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	99 MG
Poly Phosphate Usage-lbs.	97	2,924 lbs.
Salt Usage — tons	4.7 Tons	144 tons
Chlorine Usage - lbs.	126	3,921 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	FARM BONDS	FARM 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	\$252,784.63	\$194,196.43	\$20,831.30	\$16,275.74	\$37,909.78	\$2,754.18	\$73,712.48	\$0.00	\$50.00	\$1,717.98
JULY	\$258,021.50	\$202,500.53	\$20,167.27	\$15,865.46	\$36,806.86	\$2,707.88	\$73,712.48	\$0.00	\$100.00	\$2,031.32
AUGUST	\$274,851.26	\$205,046.08	\$21,898.91	\$17,425.06	\$39,956.16	\$2,859.64	\$73,712.48	\$322.89	\$50.00	\$2,751.97
SEPTEMBER	\$273,088.98	\$200,824.79	\$21,048.49	\$16,556.20	\$37,604.00	\$2,731.24	\$73,712.48	\$0.00	\$160.00	\$2,420.30
OCTOBER	\$296,258.34	\$217,360.71	\$22,235.16	\$17,545.06	\$40,128.98	\$2,987.99	\$73,712.48	\$0.00	\$59.96	\$2,295.75
NOVEMBER	\$258,245.61	\$191,830.82	\$19,222.77	\$15,134.23	\$34,377.77	\$2,663.73	\$73,712.48	\$0.00	\$50.00	\$1,527.30
DECEMBER	\$269,712.45	\$199,656.08	\$22,266.31	\$17,675.18	\$40,166.97	\$2,826.98	\$73,712.48	\$593.84	\$55.14	\$2,052.16
JANUARY	\$289,717.70	\$215,450.95	\$21,589.54	\$16,955.51	\$38,908.74	\$3,008.37	\$73,712.48	\$129.46	\$125.00	\$2,876.34
FEBRUARY	\$261,817.54	\$199,565.56	\$18,945.38	\$14,917.08	\$34,391.13	\$2,514.94	\$73,712.48	\$0.00	\$100.00	\$1,595.26
MARCH	\$269,322.93	\$203,465.34	\$22,261.19	\$17,760.07	\$40,886.80	\$2,975.63	\$73,712.48	\$86.00	\$95.31	\$1,850.43
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	\$2,941,959.77	\$2,212,666.08	\$231,369.76	\$182,736.59	\$418,672.89	\$30,978.00	\$810,520.28	\$1,132.19	\$845.41	\$22,395.51
TOTAL REVENUE	\$6,853,276.48									

5. ANNUAL BUDGET – YEAR 10

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)	\$150,805	\$154,510	\$1,443,762	\$1,411,349	\$1,568,372	(\$32,412)
Utilities	\$3,795	\$10,773	\$36,335	\$54,038	\$39,471	\$17,703
Chemicals Costs	\$29,534	\$39,677	\$282,754	\$343,017	\$307,158	\$60,263
Maintenance\Repair	\$35,917	\$23,696	\$343,862	\$306,445	\$373,541	(\$37,417)
Sludge Disposal Costs	\$687	\$0	\$6,573	\$0	\$7,140	(\$6,573)
Lab Supplies\Equip	\$3,874	\$3,908	\$37,089	\$40,593	\$40,290	\$3,504
Office Supplies	\$2,118	\$1,374	\$20,281	\$22,426	\$22,031	\$2,145
Miscellaneous Expenses	\$4,678	\$5,592	\$44,783	\$68,370	\$48,648	\$23,587
Other Operating Costs	\$18,097	\$11,192	\$173,256	\$189,360	\$188,209	\$16,104
Overhead (G.A.)	\$34,053	\$34,889	\$326,011	\$318,692	\$354,149	(\$7,319)
Subtotal Year 10	\$283,559	\$285,612	\$2,714,704	\$2,754,290	\$2,949,009	\$39,586
Fixed Fee Year 10	\$20,416	\$20,564	\$195,459	\$198,309	\$212,329	\$2,850
Total	\$303,975	\$306,176	\$2,910,163	\$2,952,599	\$3,161,338	\$42,436

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 277 preventative, corrective, and inspection workorders in March

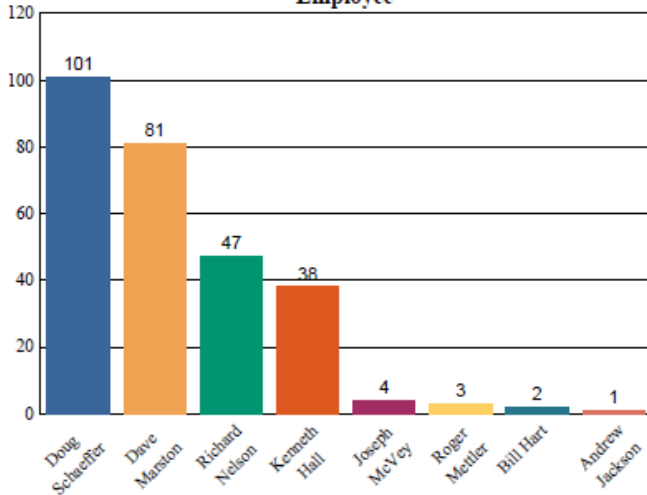


Maintenance History Report Monmouth

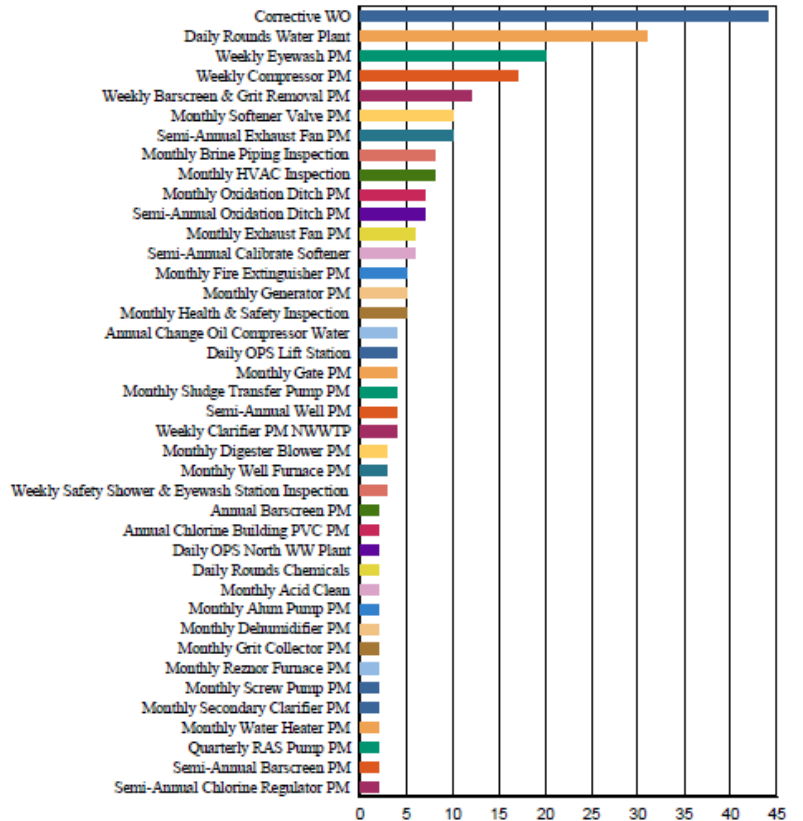
Report Start 3/1/2023
Report End 3/31/2023

Work Orders by Type	Total
Corrective Maintenance	46
Inspections	55
Preventative Maintenance	176
Total	277

Work Orders by Employee



Work Orders by Description





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