



MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of
Public Works

January 2023



woodardcurran.com



TABLE OF CONTENTS

SECTION	PAGE NO.
EXECUTIVE SUMMARY	ES-1
1. HEALTH & SAFETY	1-3
2. WASTEWATER TREATMENT	2-1
3. WATER TREATMENT	3-1
4. REVENUE COLLECTION	4-1
5. ANNUAL BUDGET – YEAR 9	5-1
6. MAINTENANCE ACTIVITIES	1

TABLES

Table 2-1:	Water Quality vs. NPDES Permit Limits
Table 3-1:	Monthly Chemical Usage for Ion Exchange Softening
Table 4-1:	FY to Date
Table 5-1:	Annual Budget

EXECUTIVE SUMMARY

The January 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 water tower leak on West Harlem Avenue has been repaired.

Brandt Construction will be back in early March to continue with the street repairs per our MFT project weather providing.

There has been a sewer collapse in the 500 block of East Clinton Avenue that will require replacing approximately 700 feet of large sewer pipe in the area of North 5th Street, East Clinton Avenue and North 3rd Street. Options and cost are currently being evaluated and most likely will result in having to reroute the existing 120-year-old sewer in that area as it runs diagonally through private properties and will need to be abandoned in place and a new sewer placed within the street right of way. We are proceeding under an emergency repair after televising the existing sewer and finding it structurally deficient along most of the existing route. Investigation has verified 19 sewer service lines will have to be re-connected to the new sewer pipe. Advanced Plumbing and Laverdiere Construction will be performing the work to expedite this repair. I am awaiting cost and schedule at this time.

The department is requesting approval to purchase a self-contained leaf vacuum machine. This vac will be towed behind a truck and requires only 1 operator and 1 truck driver. The vac will pick up the leaves and blow them into a 23 cubic yard sealed tank that is easily dumped at the compost site. This machine would replace the 1991 leaf loader that we have been using for 32 years. This is much more efficient and should speed up leaf collection considerably. The machine will be manufactured by Bonnell Industries Inc. located in Dixon IL. Bonnell specializes in truck and road equipment manufacturing. An extensive search was done to find the machine that we felt is the best fit for the City's needs. Please feel free to visit their website www.bonnell.com and I have attached a pdf of the machine and its features.

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

Andy J

OLYMPIAN LEAF PRO PLUS

EQUIPMENT FEATURES:

- Gated operator platform with swivel seat & CANbus joystick controls
- Safety interlock system on suction fan & belt guard
- 40 gallon aluminum fuel tank
- Heavy duty belt drive fan
- 74 hp Tier 4, liquid-cooled Kubota diesel engine
- 180 degree swing extended reach collection boom
- 23 or 30 yard collection body with packer style tailgate
- Proportional electric hydraulic valve controls
- 16" diameter pickup hose with 3-function hydraulically controlled pickup arm (optional)
- DOT compliant lighting & markings



1. HEALTH & SAFETY

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



2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 118 million gallons of treated wastewater in the month of January . There were no combined sewer overflow events in January . The weather station at the plant reported 1.4" of rain and 7 inches 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)	3.8	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.7	1
Chloride's mg/l	366	500
Suspended Solids mg/l	4	12

3. WATER TREATMENT

The water treatment plants produced 95 million gallons of finished water in January. 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	95 MG
Poly Phosphate Usage-lbs.	88	2,742 lbs.
Salt Usage — tons	4.5 Tons	139 tons
Chlorine Usage - lbs.	115	3,577 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	\$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	\$2,410,819.30	\$1,809,635.18	\$190,163.19	\$150,059.44	\$343,394.96	\$25,487.43	\$663,095.32	\$1,046.19	\$650.10	\$18,949.82
TOTAL REVENUE	\$5,613,300.93									

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)	\$120,644	\$111,772	\$1,173,056	\$1,134,836	\$1,568,372	(\$38,221)
Utilities	\$3,036	\$9,689	\$29,522	\$36,197	\$39,471	\$6,675
Chemicals Costs	\$23,628	\$24,754	\$229,737	\$276,983	\$307,158	\$47,246
Maintenance\Repair	\$28,734	\$32,418	\$279,388	\$262,499	\$373,541	(\$16,889)
Sludge Disposal Costs	\$549	\$0	\$5,340	\$0	\$7,140	(\$5,340)
Lab Supplies\Equip	\$3,099	\$2,634	\$30,135	\$34,824	\$40,290	\$4,689
Office Supplies	\$1,695	\$1,287	\$16,478	\$19,314	\$22,031	\$2,836
Miscellaneous Expenses	\$3,742	\$4,643	\$36,386	\$58,555	\$48,648	\$22,169
Other Operating Costs	\$14,478	\$3,677	\$140,770	\$171,086	\$188,209	\$30,316
Overhead (G.A.)	\$27,242	\$25,239	\$264,884	\$256,253	\$354,149	(\$8,631)
Subtotal Year 10	\$226,847	\$216,113	\$2,205,697	\$2,250,547	\$2,949,009	\$44,850
Fixed Fee Year 10	\$16,333	\$15,560	\$158,810	\$162,039	\$212,329	\$3,229
Total	\$243,180	\$231,673	\$2,364,507	\$2,412,586	\$3,161,338	\$48,079

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 163 preventative and corrective workorders in January

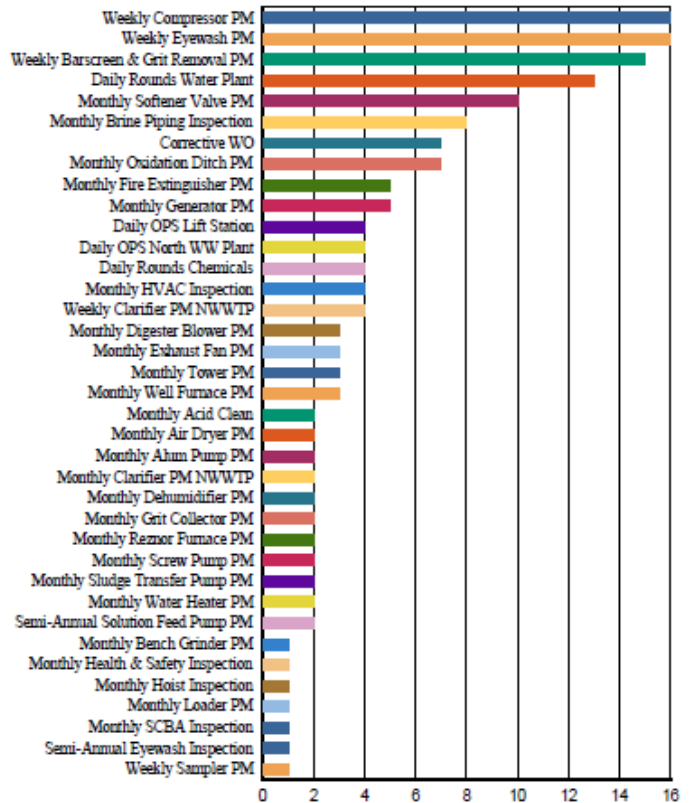


Maintenance History Report Monmouth

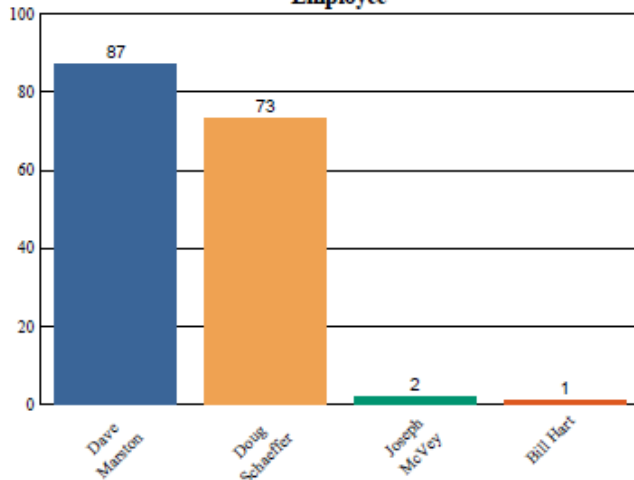
Report Start 1/1/2023
Report End 1/31/2023

Work Orders by Type	Total
Corrective Maintenance	32
Inspections	38
Preventative Maintenance	93
Total	163

Work Orders by Description



Work Orders by Employee





Woodard
& Curran



woodardcurran.com