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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

March 2022



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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.

For those of you who are not aware, I will be on medical leave for the next 90 days or so starting the end of April. In my stead, Greg Frieden will be filling in for me during this time. I have full confidence that my experienced staff will be able to handle most of the day-to-day issues that typically arise, and the engineering team is engaged on all of the capital projects that are at various stages of design, construction, and planning and/or awaiting funding.

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

Regards, Andy

1. HEALTH AND SAFETY/STAFF

There were no safety incidents or near misses in March . 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 137 million gallons of treated wastewater in the month of March . There were no combined sewer overflow events in March . The weather station at the plant reported 9.5” of snow and 1.5” 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

| | Monthly Average | Permit Limit |
|-----------------------|-----------------|--------------|
| Flow (MGD) | 4.9 | 4.62 |
| Ammonia N mg/l | 0.1 | 1.5 |
| CBOD5 mg/l | 1 | 10 |
| Total Phos | 0.8 | 1 |
| Chloride's mg/l | 358 | 500 |
| Suspended Solids mg/l | 11 | 12 |

3. WATER TREATMENT

The water treatment plants produced 103 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 | 3.8 MG | 103 MG |
| Poly Phosphate Usage-lbs. | 140 lbs. | 3,790 lbs. |
| Salt Usage = tons | 5.6 | 151 tons |
| Chlorine Usage - lbs. | 146 | 3,940 lbs. |



5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 9

| Budget Category | Month Budget | Month Actual | YTD Budget | YTD Actual | Annual Budget | over(under) |
|------------------------|------------------|------------------|--------------------|--------------------|--------------------|-----------------|
| Labor (D.L. + FB) | \$151,142 | \$149,054 | \$1,410,985 | \$1,395,952 | \$1,528,218 | (\$15,033) |
| Utilities | \$3,879 | \$8,475 | \$36,213 | \$41,392 | \$39,222 | \$5,179 |
| Chemicals Costs | \$31,130 | \$42,916 | \$290,617 | \$279,589 | \$314,763 | (\$11,028) |
| Maintenance\Repair | \$36,121 | \$37,364 | \$337,203 | \$305,856 | \$365,220 | (\$31,347) |
| Sludge Disposal Costs | \$0 | \$0 | \$0 | \$7,500 | \$0 | \$7,500 |
| Lab Supplies\Equip | \$4,240 | \$1,235 | \$39,582 | \$36,784 | \$42,871 | (\$2,798) |
| Office Supplies | \$1,832 | \$2,215 | \$17,105 | \$21,418 | \$18,526 | \$4,313 |
| Miscellaneous Expenses | \$4,811 | \$7,192 | \$44,916 | \$53,639 | \$48,648 | \$8,723 |
| Other Operating Costs | \$13,965 | \$8,654 | \$130,367 | \$179,646 | \$141,199 | \$49,279 |
| Overhead (G.A.) | \$34,129 | \$33,657 | \$318,609 | \$315,215 | \$345,081 | (\$3,395) |
| Subtotal Year 8 | \$281,250 | \$290,763 | \$2,625,598 | \$2,636,991 | \$2,843,748 | \$11,393 |
| Fixed Fee Year 8 | \$20,250 | \$20,935 | \$189,043 | \$189,863 | \$204,750 | \$820 |
| Total | \$301,500 | \$311,698 | \$2,814,641 | \$2,826,854 | \$3,048,498 | \$12,213 |

6. MAINTENANCE ACTIVITIES

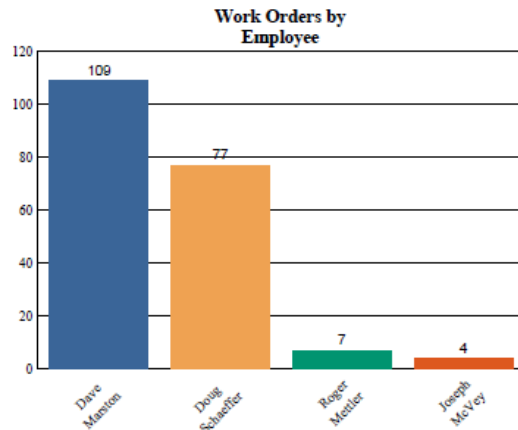
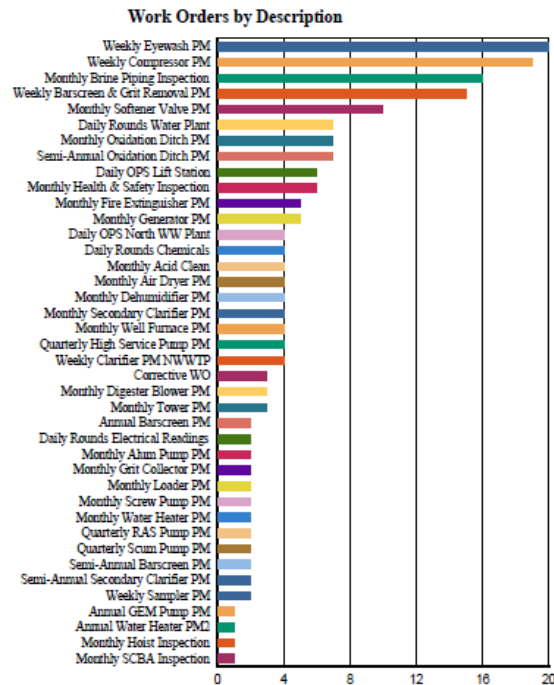
Utilizing the Utility Cloud maintenance management program, staff completed 197 preventative and corrective workorders in March



Maintenance History Report Monmouth

Report Start 3/1/2022
Report End 3/31/2022

| Work Orders by Type | Total |
|--------------------------|------------|
| Corrective Maintenance | 28 |
| Inspections | 50 |
| Preventative Maintenance | 121 |
| Total | 197 |



CORRECTIVES

| <u>Date</u> | <u>Asset Name</u> | <u>Work Order Description</u> | <u>Staff</u> | <u>Work Type</u> | <u>Status</u> |
|-------------|-------------------|-------------------------------|--------------|------------------|---------------|
|-------------|-------------------|-------------------------------|--------------|------------------|---------------|

Corrective Maintenance

Corrective WO

| | | | | | |
|------------|----------------------------|---------------------------------|----------------|------------------------|--------|
| 03/29/2022 | Monmouth_Pipe.shp | 200 W. Archer water main repair | Joseph McVey | Corrective Maintenance | Closed |
| 03/29/2022 | SE 4-in lines | 511 S. 3rd water main repair | Joseph McVey | Corrective Maintenance | Closed |
| 03/17/2022 | Wastewater Treatment Plant | Replace shear pin | Doug Schaeffer | Corrective Maintenance | Closed |