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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

September 2021



TABLE OF CONTENTS

SECTION

Executive Summary	
1. HEALTH AND SAFETY/STAFF	
2. WASTEWATER TREATMENT	
4. REVENUE COLLECTION	
5. ESTIMATED ANNUAL COST	
6. MAINTENANCE ACTIVITIES	

LIST OF TABLES

TABLE

Table 2-1:	Water Quality vs. NPDES Permit Limits
Table 3-1:	Monthly Chemical Usage for Ion Exchange Softening
Table 4-1:	Revenue Collection
Table 5-1:	Estimated Annual Budget – Year 9

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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.

Monmouth Townhomes water and sewer mains have been installed at the site, existing City sewer replacement directly east of the development is in the process of being replaced due to age and numerous suck holes in the existing pipe.

Advanced Plumbing will be replacing the water main in the 300 block of North 5th Street in early November. This area has been notorious for continuing main breaks over the years and will be good to get the old cast iron pipe and service lines replaced in this block.

The Ameren grant for the High Service Pump VFD project is being submitted by C&D Electric through the Ameren grant program. This grant will provide approximately \$60,000 towards the project.

Leaf drop is several weeks later than normal so anticipate leaf pickup will last until awhile longer as most of the leaves are still on the trees at this point.

The seasonal mowing crew finished up this mowing season on October 28th.

Current projects that are in various stages of engineering phase include:

SCADA system replacement

Disinfection project at the wastewater treatment plant as mandated by IEPA

Downtown Sewer project is in the application stage for funding with USDA

Monmouth Roseville parking lot runoff control

West Harlem Road Reconstruction is in the IDOT approval phase with anticipated bid date of late April 2022.

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 September . 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 87 million gallons of treated wastewater in the month of September . There were no combined sewer overflow events in September . The weather station at the plant reported 2” 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)	2.9	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.9	1
Chlorides mg/l	416	500
Suspended Solids mg/l	12	12

3. WATER TREATMENT

The water treatment plants produced 88 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

	Daily Average	Monthly Total
Treated Water to System	3.0 MG	88 MG
Poly Phosphate Usage-lbs.	115 lbs.	3,323 lbs.
Salt Usage = tons	4.8	140 tons
Chlorine Usage - lbs.	112	3,240 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)	\$146,944	\$139,926	\$615,474	\$614,606	\$1,528,218	(\$868)
Utilities	\$3,771	\$2,159	\$15,796	\$10,094	\$39,222	(\$5,702)
Chemicals Costs	\$30,266	\$22,328	\$126,768	\$102,168	\$314,763	(\$24,600)
Maintenance\Repair	\$35,117	\$46,529	\$147,089	\$152,924	\$365,220	\$5,835
Sludge Disposal Costs	\$0	\$0	\$0	\$7,500	\$0	\$7,500
Lab Supplies\Equip	\$4,122	\$4,941	\$17,266	\$17,410	\$42,871	\$144
Office Supplies	\$1,781	\$1,297	\$7,461	\$9,803	\$18,526	\$2,342
Miscellaneous Expenses	\$4,678	\$5,652	\$19,592	\$21,852	\$48,648	\$2,260
Other Operating Costs	\$13,577	\$30,545	\$56,866	\$108,482	\$141,199	\$51,616
Overhead (G.A.)	\$33,181	\$31,596	\$138,978	\$138,782	\$345,081	(\$196)
Subtotal Year 8	\$273,437	\$284,974	\$1,145,290	\$1,183,621	\$2,843,748	\$38,331
Fixed Fee Year 8	\$19,687	\$20,518	\$82,461	\$85,221	\$204,750	\$2,760
Total	\$293,125	\$305,492	\$1,227,751	\$1,268,842	\$3,048,498	\$41,090

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 273 preventative and 34 corrective workorders in September.

