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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

September 2020



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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.

The Community Shred Day that was held on Saturday October 24th at the Transfer Station collected 7,700 pounds of paper according to AAA Confidential Security Corporation. A pretty good turn out even though the weather wasn't very cooperative.

Fall Cleanup week was completed on schedule from October 5th through 9th.

East Euclid paving should be completed by Saturday, October 31st.

The North WWTP construction is fully underway. The new sludge pumping station is installed, the west aeration basin has been taken out of service and new piping, diffusers, and side slope improvements are completed. The basin is scheduled to be put back in service within the next few days. The new baffle curtain has been installed, new gas collection piping and the new cover should be installed by Thanksgiving. The new lift station at Smithfield is nearly completed and should be in service before year end. There are a couple of construction photos at the end of this report.

Road repairs from water main breaks on West Broadway, North A, and East Archer have been restored.

City leaf pickup will begin the week of November 2nd.

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. JT Ehlen started work on September 21st as the new water meter reader. 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 100 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 5.5” 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)	3.34	4.62
Ammonia N mg/l	0.6	1.5
CBOD5 mg/l	2	10
Total Phos	0.7	1
Chlorides mg/l	318	500
Suspended Solids mg/l	10	12

3. WATER TREATMENT

The water treatment plants produced 89 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	2.97 MG	89 MG
Poly Phosphate Usage-lbs.	104 lbs.	3,108 lbs.
Salt Usage — tons	4.3	128 tons
Chlorine Usage - lbs.	118	3,537 lbs.

5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 8

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$139,913	\$127,089	\$588,398	\$586,839	\$1,455,092	(\$1,559)
Utilities	\$3,756	\$2,564	\$15,794	\$10,960	\$39,058	(\$4,834)
Chemicals Costs	\$29,868	\$33,886	\$125,607	\$130,716	\$310,622	\$5,109
Maintenance\Repair	\$35,117	\$17,034	\$147,684	\$89,745	\$365,219	(\$57,939)
Sludge Disposal Costs	\$0	\$813	\$0	\$813	\$0	\$813
Lab Supplies\Equip	\$4,068	\$10,956	\$17,108	\$20,560	\$42,307	\$3,452
Office Supplies	\$1,764	\$1,263	\$7,418	\$9,138	\$18,344	\$1,720
Miscellaneous Expenses	\$4,678	\$4,390	\$19,672	\$19,167	\$48,648	(\$505)
Other Operating Costs	\$11,020	\$21,735	\$46,343	\$92,741	\$114,604	\$46,398
Overhead (G.A.)	\$31,593	\$28,698	\$132,864	\$132,512	\$328,569	(\$352)
Subtotal Year 8	\$261,775	\$248,428	\$1,100,887	\$1,093,191	\$2,722,463	(\$7,695)
Fixed Fee Year 8	\$18,848	\$17,887	\$79,264	\$78,710	\$196,017	(\$554)
Total	\$280,623	\$266,314	\$1,180,151	\$1,171,901	\$2,918,480	(\$8,249)

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 216 preventative and corrective workorders in September. Below is a summary of the months' corrective activities:

Corrective workorders are listed below

WorkOrder	AssetDescription	AssetID	WorkFlowTitle	WorkOrderDescription	WorkOrderType	DateCreated
270877098	CUST-14220000	MON-CURB-14220000-1194	Corrective WO	915 south 11th curb stop repair	Corrective Maintenance	9/2/2020 2:57:03 PM
270878120	CUST-34770000	MON-CUST-34770000-3188	Corrective WO	5/8 radio read	Corrective Maintenance	9/3/2020 7:40:53 AM
270878121	CUST-20130000	MON-CURB-20130000-1779	Corrective WO	5/8 radio read	Corrective Maintenance	9/3/2020 7:42:59 AM
270912462	CUST-5790000	MON-CURB-5790000-443	Corrective WO	608 south 5th curb stop repair	Corrective Maintenance	9/22/2020 7:44:40 AM
270912538	CUST-18070000	MON-CURB-18070000-1585	Corrective WO	406 south B street curb stop repair	Corrective Maintenance	9/22/2020 8:18:58 AM
270912600	Catch Basin	MON_MH-42	Corrective WO	Repair intake loose bricks and mortar	Corrective Maintenance	9/22/2020 9:04:32 AM
270912812	Catch Basin	MON-CB-843	Corrective WO	Intake repair	Corrective Maintenance	9/22/2020 11:21:20 AM



