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COMMITMENT & INTEGRITY DRIVE RESULTS

# Monthly Operating REPORT

Monmouth, Illinois

Department of  
Public Works

November 2020



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## EXECUTIVE SUMMARY

The November 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 service line was replaced that serves the Tin Cup, the old service line was leaking between the water main and the curb stop valve.

The anaerobic lagoon cover project was completed, and the biogas flare is back in service at the North Pre-Treatment Plant.

Well 9 was installed and put back into service including new motor, harmonic filter, and column pipe.

The PDR (Project Development Report) for the West Harlem Avenue re-construction was submitted to IDOT as part of the requirements for accessing federal funds for the road reconstruction. Bear in mind the project construction won't take place until calendar year 2022. Once IDOT approves the PDR, full design of the project can begin. All affected residents and commercial customers along West Harlem Avenue will have an opportunity to review and comment on the conceptual plan that will be mailed to them in early January.

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 November. 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 72 million gallons of treated wastewater in the month of November. Plant operations were returned to normal with the completion of the aeration basin construction and process re-established at the North Pre-Treatment Plant. Flow from Smithfield was returned to the treatment system on November 25<sup>th</sup>. There were no combined sewer overflow events in November. The weather station at the plant reported 2.7” 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)	2.39	4.62
Ammonia N mg/l	0.2	1.5
CBOD5 mg/l	1	10
Total Phos	0.4	1
Chlorides mg/l	302	500
Suspended Solids mg/l	2	12

### 3. WATER TREATMENT

The water treatment plants produced 86 million gallons of finished water in November. 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	2.87 MG	86 MG
Poly Phosphate Usage-lbs.	97 lbs.	2,905 lbs.
Salt Usage — tons	4.1	124 tons
Chlorine Usage - lbs.	119	3,573 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)	\$111,930	\$107,502	\$811,035	\$806,510	\$1,455,092	(\$4,525)
Utilities	\$3,004	\$2,841	\$21,770	\$15,699	\$39,058	(\$6,071)
Chemicals Costs	\$23,894	\$27,747	\$173,134	\$180,354	\$310,622	\$7,220
Maintenance\Repair	\$28,094	\$18,175	\$203,565	\$129,194	\$365,219	(\$74,371)
Sludge Disposal Costs	\$0	\$0	\$0	\$813	\$0	\$813
Lab Supplies\Equip	\$3,254	\$1,514	\$23,581	\$25,772	\$42,307	\$2,191
Office Supplies	\$1,411	\$759	\$10,225	\$9,978	\$18,344	(\$247)
Miscellaneous Expenses	\$3,742	\$3,028	\$27,115	\$26,050	\$48,648	(\$1,065)
Other Operating Costs	\$8,816	\$22,703	\$63,878	\$122,693	\$114,604	\$58,815
Overhead (G.A.)	\$25,275	\$24,275	\$183,137	\$182,115	\$328,569	(\$1,022)
Subtotal Year 8	<b>\$209,420</b>	<b>\$208,543</b>	<b>\$1,517,438</b>	<b>\$1,499,178</b>	<b>\$2,722,463</b>	<b>(\$18,260)</b>
Fixed Fee Year 8	\$15,078	\$15,015	\$109,256	\$107,941	\$196,017	(\$1,315)
<b>Total</b>	<b>\$224,498</b>	<b>\$223,559</b>	<b>\$1,626,694</b>	<b>\$1,607,119</b>	<b>\$2,918,480</b>	<b>(\$19,575)</b>

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## 6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 179 preventative and corrective workorders in November. Below is a summary of the months' corrective activities:

Corrective workorders are listed below:

Repaired water main 1100 block of West Boston

Repaired curb stop 227 South Main

Repaired service line 616 South 9<sup>th</sup>

Replaced 7 feet of 12" sanitary sewer 1100 and new 6" sewer tap 1100 block of East 2<sup>nd</sup> Avenue

Installed repair kits on raw wastewater force main air relief valves #1 & #2