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COMMITMENT & INTEGRITY DRIVE RESULTS

# Monthly Operating REPORT

Monmouth, Illinois

Department of  
Public Works

September 2019



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## TABLE OF CONTENTS

### SECTION

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<b>Executive Summary</b> .....	
<b>1. HEALTH AND SAFETY/STAFF</b> .....	
<b>2. WASTEWATER TREATMENT</b> .....	
<b>4. REVENUE COLLECTION</b> .....	
<b>5. ESTIMATED ANNUAL COST</b> .....	
<b>6. MAINTENANCE/REPAIR ACTIVITIES</b> .....	
<b>7. CAPITAL PROJECTS</b> .....	

## LIST OF TABLES

### TABLE

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Table 1-1:	Water Quality vs. NPDES Permit Limits .....	
Table 2-1:	Monthly Chemical Usage for Ion Exchange Softening .....	
Table 3-1:	Revenue Collection .....	
Table 4-1:	Estimated Annual Budget – Year 7 .....	

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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.

CSO Phase 2 bid opening is set for November 6<sup>th</sup>, the recommended bid will come to Council for approval at the November 18<sup>th</sup> meeting

The City's NPDES discharge permit for the wastewater treatment plant comment period is closed and we would anticipate the re-issued permit to be forthcoming anytime.

Brandt Construction completed the street program for 2019. The final total costs are: \$677,285 from Motor Fuel Tax and \$101,227 from Local Fuel Tax for a total of \$778,512 for this years' work.

The new state gasoline tax is generating about \$14,000 per month in additional revenue to the City's Motor Fuel tax fund. The City typical had been receiving around \$20,000 per month in allotments from the state, that is now approximately \$34,000 per month going into the fund. The additional revenue allotments started in August.

Feel free to stop by the office or give me a call, 309-734-4026 if you have any questions or comments.

Regards, Andy

## 1. HEALTH AND SAFETY/STAFF

Staff annual review of the fire extinguisher use program. There were no safety incidents or near misses in September.

## 2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 127 million gallons of treated wastewater in the month of September. There were 7 combined sewer overflow events in September. The weather station at the plant reported 9.8” 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)	4.2	4.62
Ammonia N mg/l	<0.1	1.5
CBOD5 mg/l	1	10
Total Phos	0.7	1
Chlorides mg/l	320	500
Suspended Solids mg/l	8	12

## 3. WATER TREATMENT

The water treatment plants produced 90 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	90 MG
Poly Phosphate Usage-lbs.	99 lbs.	2,970 lbs.
Salt Usage — tons	4.6	138 tons
Chlorine Usage - lbs.	119	3,654 lbs.



## 5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 7

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$129,524	\$126,595	\$647,621	\$610,770	\$1,554,290	(\$36,851)
Utilities	\$3,217	\$2,231	\$16,087	\$13,443	\$38,608	(\$2,644)
Chemicals Costs	\$25,587	\$30,924	\$127,933	\$136,803	\$307,040	\$8,870
Maintenance\Repair	\$29,573	\$50,283	\$147,863	\$221,363	\$354,870	\$73,501
Sludge Disposal Costs	\$833	\$0	\$4,167	\$0	\$10,000	(\$4,167)
Lab Supplies\Equip	\$3,526	\$8,695	\$17,628	\$23,042	\$42,306	\$5,415
Office Supplies	\$1,524	\$1,097	\$7,621	\$6,724	\$18,291	(\$897)
Miscellaneous Expenses	\$4,113	\$7,461	\$20,563	\$23,419	\$49,351	\$2,856
Other Operating Costs	\$12,687	\$22,646	\$63,433	\$93,404	\$152,238	\$29,972
Overhead (G.A.)	\$29,247	\$28,586	\$146,237	\$137,916	\$350,969	(\$8,321)
Subtotal Year 7	<b>\$239,830</b>	<b>\$278,518</b>	<b>\$1,199,151</b>	<b>\$1,266,884</b>	<b>\$2,877,963</b>	\$67,732
Fixed Fee Year 7	\$17,268	\$20,053	\$86,339	\$91,216	\$207,213	\$4,877
<b>Total</b>	<b>\$257,098</b>	<b>\$298,571</b>	<b>\$1,285,490</b>	<b>\$1,358,099</b>	<b>\$3,085,177</b>	<b>\$72,609</b>

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## 6. MAINTENANCE/REPAIR ACTIVITIES

### A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

#### Water/Street Facilities

Maintenance staff completed 82 routine/preventative and 19 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in September. 99 requests for service were responded to by service personnel. 381 requests for City utility locates from the J.U.L.I.E. call center were completed. Water distribution system and sewer collection system items:

- Replaced 6 water meters
- Repaired water main 900 East Euclid
- Repaired water main 1000 South 2<sup>nd</sup> – replaced 20' of bad 6" pipe
- Repaired water main 1100 North 11th
- Repaired water main 1300 North Main
- Repaired water main 800 North F
- Repaired water main 400 East Euclid
- Replaced curb stop 605 South Sunnyslane
- Repaired curb stop 709 North 8th
- Replaced chlorine analyzer at South Water Plant

#### Wastewater Facilities

Maintenance staff performed 129 preventative work orders and 10 corrective work orders at the Consolidated Plant and North Pretreatment Plant.

- GEMS unit: replaced solenoid, new chemical feed lines, new diaphragms in chem feed pumps and polymer pump
- Replaced 2 breakers on flare controls
- Replaced rebuilt 100 hp motor on blower #5
- Changed oil in both screw pumps and filled auto grease system

#### Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, pothole patching and utility repair patching
- Scheduled vehicle service work (lube, oil, filters)
- Replaced hydraulic lines on T14

## 7. CAPITAL PROJECTS

CSO Phase 2 bid opening is set for November 6<sup>th</sup>

Awaiting IEPA permitting for the North Pre-Treatment Plant.

Final drawings and permit application for the Love's Travel Stop utility extension project should be ready for submittal by mid-end of November.