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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

August 2019



TABLE OF CONTENTS

SECTION

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

LIST OF TABLES

TABLE

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 August 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.

Street crews completed repairing an area of street in the 900 Block of North 11th including removal of old concrete pavement, repairing the culvert under the road, and installing a new 30 x 36 concrete slab to replace the deteriorated area of the road.

CSO Phase 2 will be advertised for bid in early October with a bid opening in early November, exact dates to be determined.

Advanced Plumbing replaced the 250' of City sewer beneath the Smithfield parking lot that was approved in July.

The City's NPDES discharge permit for the wastewater treatment plant went out to public notice in early September, we would anticipate the final permit being issued in mid- October.

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 animal safety program. There were no safety incidents or near misses in August. Mark Blackman retired on August 2nd and we wish him well in his future endeavors.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 101 million gallons of treated wastewater in the month of August. There were 4 combined sewer overflow events in August. The weather station at the plant reported 3.8” 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)	3.27	4.62
Ammonia N mg/l	<0.1	1.5
CBOD5 mg/l	1	10
Total Phos	0.7	1
Chlorides mg/l	408	500
Suspended Solids mg/l	8	12

3. WATER TREATMENT

The water treatment plants produced 95 million gallons of finished water in August. 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	3.05 MG	95 MG
Poly Phosphate Usage-lbs.	101 lbs.	3,119 lbs.
Salt Usage — tons	5.1	159 tons
Chlorine Usage - lbs.	120	3,719 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	\$118,250	\$518,097	\$484,175	\$1,554,290	(\$33,922)
Utilities	\$3,217	\$2,267	\$12,869	\$11,212	\$38,608	(\$1,657)
Chemicals Costs	\$25,587	\$31,999	\$102,347	\$105,879	\$307,040	\$3,532
Maintenance\Repair	\$29,573	\$41,290	\$118,290	\$171,080	\$354,870	\$52,790
Sludge Disposal Costs	\$833	\$0	\$3,333	\$0	\$10,000	(\$3,333)
Lab Supplies\Equip	\$3,526	\$3,948	\$14,102	\$14,347	\$42,306	\$245
Office Supplies	\$1,524	\$425	\$6,097	\$5,627	\$18,291	(\$470)
Miscellaneous Expenses	\$4,113	\$4,382	\$16,450	\$15,958	\$49,351	(\$492)
Other Operating Costs	\$12,687	\$11,625	\$50,746	\$70,758	\$152,238	\$20,012
Overhead (G.A.)	\$29,247	\$26,702	\$116,990	\$109,330	\$350,969	(\$7,660)
Subtotal Year 7	\$239,830	\$240,887	\$959,321	\$988,366	\$2,877,963	\$29,045
Fixed Fee Year 7	\$17,268	\$17,344	\$69,071	\$71,162	\$207,213	\$2,091
Total	\$257,098	\$258,231	\$1,028,392	\$1,059,528	\$3,085,177	\$31,136

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 71 routine/preventative and 27 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in August. 134 requests for service were responded to by service personnel. 168 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 12 water meters
- Repaired water main 200 East Euclid
- Repaired water main 400 South Sunnyside
- Repaired water main 900 West 4th Avenue
- Repaired water main 800 East 11th Avenue
- Repaired water main 900 South 4th
- Repaired water main 500 North 6th
- Repaired water main 1000 South 2nd
- Repaired water main 600 North 11th
- Replaced sewer 200 South 2nd
- Repaired culvert and 30x36 of concrete road in the 800 block of North 11th

Wastewater Facilities

Maintenance staff performed 122 preventative work orders and 7 corrective work orders at the Consolidated Plant and North Pretreatment Plant.

- Stewart Spreading removed 1,250 cubic yards of sludge from the holding lagoons on East Jackson Avenue in preparation for the CSO Phase 2 project. Sludge removal typically takes place once every 5 years or so from the lagoons.
- Advanced Plumbing vacuumed out the remainder of the sludge in the wet well and transport pipe to the lagoons
- Installed rebuilt gas blower at flare
- Installed new level probe in phos plant lift station
- Replaced PLC I/O card in phos plant lift station control panel

Street/Grounds/Right of Way/Fleet

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

7. CAPITAL PROJECTS

CSO Phase 2 is ready to be advertised for bid. Anticipate advertisement around October 10 with a bid opening approximately 30 days after the bid advertisement goes out.

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 October.