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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

June 2019



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EXECUTIVE SUMMARY

The June 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.

Laverdiere Construction got started on the Southeast water main replacement project in late June. They anticipate completion around the first week of August.

Personnel spent most of the month of June getting caught up on normal routine items that were not done in May due to all the rain.

The City received the draft NPDES discharge permit renewal for the wastewater treatment plant. Included in the draft permit is a requirement for disinfection treatment which is not currently in the existing permit. This requirement will necessitate a capital improvement of a disinfection system to be installed at the plant in the near future.

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 heat illness and poisonous plant awareness. There were no safety incidents or near misses in June.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 177 million gallons of treated wastewater and an additional 7 million gallons of excess flow in the month of June. There were 2 combined sewer overflow events in June. The weather station at the plant reported 4.6” 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)	6.0	4.62
Ammonia N mg/l	<0.2	1.5
CBOD5 mg/l	2	10
Total Phos	0.6	1
Chlorides mg/l	259	500
Suspended Solids mg/l	8	12

3. WATER TREATMENT

The water treatment plants produced 86 million gallons of finished water in June. 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	2.88 MG	86 MG
Poly Phosphate Usage-lbs.	95 lbs.	2,847 lbs.
Salt Usage — tons	5.3	161 tons
Chlorine Usage - lbs.	109	3,267 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	\$144,973	\$259,048	\$251,424	\$1,554,290	(\$7,624)
Utilities	\$3,217	\$2,559	\$6,435	\$4,393	\$38,608	(\$2,042)
Chemicals Costs	\$25,587	\$17,403	\$51,173	\$50,347	\$307,040	(\$826)
Maintenance\Repair	\$29,573	\$33,793	\$59,145	\$72,586	\$354,870	\$13,441
Sludge Disposal Costs	\$833	\$0	\$1,667	\$0	\$10,000	(\$1,667)
Lab Supplies\Equip	\$3,526	\$327	\$7,051	\$7,169	\$42,306	\$118
Office Supplies	\$1,524	\$1,247	\$3,049	\$2,235	\$18,291	(\$814)
Miscellaneous Expenses	\$4,113	\$3,440	\$8,225	\$7,857	\$49,351	(\$368)
Other Operating Costs	\$12,687	\$17,999	\$25,373	\$34,440	\$152,238	\$9,067
Overhead (G.A.)	\$29,247	\$32,736	\$58,495	\$56,773	\$350,969	(\$1,722)
Subtotal Year 7	\$239,830	\$254,477	\$479,661	\$487,224	\$2,877,963	\$7,564
Fixed Fee Year 7	\$17,268	\$18,322	\$34,536	\$35,080	\$207,213	\$545
Total	\$257,098	\$272,799	\$514,196	\$522,304	\$3,085,177	\$8,108

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 85 routine/preventative and 20 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in June. 78 requests for service were responded to by service personnel. 186 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 5 water meters
- Repaired water main 400 North 6th
- Repaired water main 700 South B
- Repaired water main at North 2 & East Broadway
- Repaired water main 1400 North Main
- Repaired curb stop 1228 Lawnway Drive
- Repaired curb stop 402 South Main
- Sewer cleaning 700-800 block South 8th
- Sewer cleaning 900 block South 2nd
- Sewer cleaning 200 block South 8th
- Replaced 14 feet of 21” sewer near Smithfield parking lot
- Replaced 10 feet of 12” sewer North D and West Franklin intersection
- Excavated 301 North 5th sink hole, customer sewer lateral issue – customer responsibility

Wastewater Facilities

Maintenance staff performed 135 preventative and 4 repair work orders at the Consolidated Plant and North Pretreatment Plant.

- Repaired force main on North 11th Street
- Replaced electric clutch on John Deere mower
- Replaced gaskets and pipe fittings on Alum pump
- Replaced motor overloads on GEMS influent pressure pump

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 starter T16
- Replaced coil pack T42

7. CAPITAL PROJECTS

Southeast Water Main project funded through CDBG got underway in late June with anticipated completion by around August 1st.

Began work on the next round of CDBG grant applications with survey and design to replace the aged water main on East Euclid Avenue from North 1st Street to North 6th Street. This line has failed 14 times since 2003 and is in need of replacement. The area qualifies as LMI (low, moderate income), thus is eligible for the CDBG grant program.

Awaiting IEPA permitting for the North Pre-Treatment Plant and CSO Phase 2 projects.

The Love's Travel Stop utility extension project is now in design.