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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

July 2018



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EXECUTIVE SUMMARY

The July Public Works monthly report provides an overview of the month's activities and statistical data including: 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.

Woodard Curran engineering completed a drainage study on the 7-acre City owned property north of Costello terrace. This drainage study was necessary for any future development opportunities.

Well 9 motor failed last week, the well has been pulled and currently awaiting an additional check valve to be added to the column pipe before re-installing. We also took the opportunity to replace the connection piping at Well 9 while the well is out of service. The check valve will be on site right after Labor Day and the Well will be re-installed.

Illinois DNR requested some information from the 1992 Northeast Quadrant Sewer Relief project concerning permitting and backfilling in the flood plain. I was able to locate the permit that was issued from the Division of Water Resources that was issued in 1992 for the project and forwarded it on to Illinois DNR. Hopefully that will satisfy their inquiry.

The Title V USEPA Air Emissions permit renewal application was completed and submitted to IEPA, the City received a notice of completeness for the submittal, we would assume the re-issued permit will be forthcoming.

Staff has completed 654 manhole inspections since the beginning of the year.

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 completed the annual PPE training. There were no safety incidents or near misses in July.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 84 million gallons of wastewater in the month of July. There was 1 combined sewer overflow event in July. The weather station at the plant reported 2.17” 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)	2.72	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chlorides mg/l	374	500
Suspended Solids mg/l	5	12

3. WATER TREATMENT

The water treatment plants produced 81 million gallons of finished water in July. 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	2.6 MG	81 MG
Poly Phosphate Usage-lbs.	88 lbs	2,735 lbs
Salt Usage — tons	5.2	161 tons
Chlorine Usage - lbs.	102	3,177 lbs

4. REVENUE COLLECTION

Table 4-1: FY to date

The table below outlines the revenue collected through the month of July from the Municipal Services billings.

PAYMENT TOTALS 2018-2019 FISCAL YEAR										
MONTH	WATER	SEWER	LANDFILL	RECYCLE	GARBAGE	YARD WASTE	FARM BONDS	FARM SURCHARGE	OTHER	PENALTY
MAY '18	\$223,175.52	\$182,177.89	\$21,254.42	\$14,775.79	\$34,593.81	\$2,802.00	\$34,065.81	\$329.60	\$154.22	\$2,969.59
JUNE	\$243,900.96	\$191,773.28	\$20,996.37	\$14,578.83	\$35,059.08	\$2,801.42	\$34,065.81	\$425.02	\$50.00	\$2,782.76
JULY	\$252,903.95	\$191,101.15	\$21,601.59	\$15,033.34	\$35,932.18	\$2,808.27	\$34,065.81	\$274.83	\$50.00	\$3,021.89
AUGUST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SEPTEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
OCTOBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NOVEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DECEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JANUARY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FEBRUARY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MARCH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
APRIL '19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
YEAR TO DATE	\$719,980.43	\$565,052.32	\$63,852.38	\$44,387.96	\$105,585.07	\$8,411.69	\$102,197.43	\$1,029.45	\$254.22	\$8,774.24



5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 6

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$126,442	\$107,021	\$379,327	\$351,724	\$1,517,309	(\$27,603)
Utilities	\$3,175	\$2,401	\$9,525	\$6,600	\$38,100	(\$2,925)
Chemicals Costs	\$25,250	\$35,298	\$75,750	\$91,011	\$303,000	\$15,261
Maintenance\Repair	\$27,642	\$35,449	\$82,925	\$108,448	\$331,700	\$25,523
Sludge Disposal Costs	\$500	\$0	\$1,500	\$0	\$6,000	(\$1,500)
Lab Supplies\Equip	\$3,479	\$4,892	\$10,438	\$11,317	\$41,750	\$880
Office Supplies	\$1,504	\$1,098	\$4,513	\$6,687	\$18,050	\$2,175
Miscellaneous Expenses	\$4,058	\$4,433	\$12,175	\$13,044	\$48,700	\$869
Other Operating Costs	\$12,529	\$25,050	\$37,588	\$57,073	\$150,350	\$19,486
Overhead (G.A.)	\$28,552	\$24,166	\$85,655	\$79,422	\$342,618	(\$6,233)
Subtotal Year 5	\$233,131	\$239,808	\$699,394	\$725,326	\$2,797,577	\$25,932
Fixed Fee Year 5	\$16,785	\$17,266	\$50,356	\$52,223	\$201,426	\$1,867
Total	\$249,917	\$257,075	\$749,751	\$777,550	\$2,999,003	\$27,799

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 77 routine/preventative and 27 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in July. 118 requests for service were responded to by service personnel. 224 requests for City utility locates from the J.U.L.I.E. call center was completed. Water distribution system and sewer collection system items:

- Installed rebuild kit on brine pump at North Water Plant
- Replaced 13 water meters
- Repaired water main 700 South B
- Repaired water main 700 East Broadway
- APM cleaned sewer 1000 block South 2nd
- APM cleaned sewer 400 block North E at W. Detroit
- APM cleaned sewer 500 block West Franklin
- Repaired curb stop 818 South D
- Repaired sewer manhole 1100 block South 4th
- Repaired storm intake South D and West 1st Ave.
- Repaired storm intake 1225 Lawnway Drive
- Replaced chlorine booster pump piping at North Water Plant

Wastewater Facilities

Maintenance staff performed 134 routine/preventative work orders and 9 corrective work orders at the Consolidated Plant and North Pretreatment Plant.

- Repaired skimmer and attachment links on GEMS unit
- Installed new pressure tank
- Replaced electrical outlet at waste sludge lagoon
- Install new air solenoid on GEMS unit
- Cleaned and removed sludge from old clarifier, scum well, RAS pit at pre-treatment plant
- Installed new circuit breaker for storm water pump on anaerobic lagoon cover

Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, pot hole patching, street sweeping
- Scheduled vehicle service work (lube, oil, filters)
- Replaced front tires on T19

7. CAPITAL PROJECTS

The North Plant clarifier project is completed and running very well.

Several capital projects in the que include the design and construction of the remaining North Pre-Treatment Plant once the financing arrangements with Smithfield have been agreed upon and executed, and, Phase 2 design of the CSO Long Term Control Plan which is due to IEPA next spring.