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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

March 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 6

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EXECUTIVE SUMMARY

The March 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.

Crews have been over the streets several times repairing potholes. Utility dig patches are nearly completed except for Harlem and Main Street. We are planning to use hot mix asphalt to make that repair once UCM starts up their asphalt plant to pave the 34/67 bypass.

The IDOT project around the 34/67 bypass is underway. Traffic control has been set up and UCM has begun coring for base repair areas.

The CDBG water main replacement project will begin on June 3rd starting at East 9th Avenue and South Main Street heading east from there.

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 hearing protection. There were no safety incidents or near misses in March.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 183 million gallons of wastewater in the month of March. There were 2 combined sewer overflow events in March. The weather station at the plant reported 4" 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)	5.9	4.62
Ammonia N mg/l	<0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.7	1
Chlorides mg/l	324	500
Suspended Solids mg/l	10	12

3. WATER TREATMENT

The water treatment plants produced 95 million gallons of finished water in March. 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.	3,130 lbs.
Salt Usage — tons	5.6	173 tons
Chlorine Usage - lbs.	122	3,795 lbs.

4. REVENUE COLLECTION

Table 4-1: FY to date

The table below outlines the revenue collected through the month of March 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	\$254,552.50	\$202,407.33	\$22,132.81	\$15,357.54	\$36,523.99	\$2,900.33	\$49,952.21	\$79.52	\$0.00	\$2,668.54
SEPTEMBER	\$230,824.54	\$171,906.02	\$18,460.93	\$12,837.41	\$30,827.09	\$2,434.80	\$34,065.81	\$0.00	\$50.00	\$2,519.13
OCTOBER	\$250,867.01	\$199,042.50	\$22,360.06	\$15,547.83	\$36,760.41	\$2,940.34	\$34,065.81	\$0.00	\$0.00	\$2,767.07
NOVEMBER	\$249,445.61	\$195,181.61	\$20,512.02	\$14,263.06	\$34,668.49	\$2,694.17	\$18,179.41	\$390.41	\$0.00	\$2,277.87
DECEMBER	\$219,148.66	\$169,847.93	\$20,346.69	\$14,195.64	\$33,428.02	\$2,636.47	\$34,065.81	\$1,886.16	\$0.00	\$2,697.79
JANUARY	\$241,187.80	\$189,383.81	\$21,077.78	\$15,099.82	\$34,674.66	\$2,729.07	\$49,952.21	\$565.64	\$175.00	\$2,890.77
FEBRUARY	\$226,216.85	\$177,706.86	\$20,606.17	\$14,809.42	\$34,531.81	\$2,718.90	\$18,179.41	\$4,675.81	\$0.00	\$2,626.07
MARCH	\$223,956.41	\$185,193.53	\$22,665.26	\$16,254.47	\$36,490.54	\$2,759.16	\$34,065.81	\$439.08	\$100.00	\$3,294.17
YEAR TO DATE	\$2,616,179.81	\$2,055,721.91	\$232,014.10	\$162,753.15	\$383,490.08	\$30,224.93	\$374,723.91	\$9,066.07	\$579.22	\$30,515.65

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	\$136,067	\$1,390,867	\$1,342,626	\$1,517,309	(\$48,241)
Utilities	\$3,175	\$5,455	\$34,925	\$40,286	\$38,100	\$5,361
Chemicals Costs	\$25,250	\$36,295	\$277,750	\$299,211	\$303,000	\$21,461
Maintenance\Repair	\$27,642	\$38,849	\$304,058	\$346,078	\$331,700	\$42,020
Sludge Disposal Costs	\$500	\$0	\$5,500	\$1,671	\$6,000	(\$3,829)
Lab Supplies\Equip	\$3,479	\$2,628	\$38,271	\$40,537	\$41,750	\$2,266
Office Supplies	\$1,504	\$3,749	\$16,546	\$19,375	\$18,050	\$2,829
Miscellaneous Expenses	\$4,058	\$3,597	\$44,642	\$45,094	\$48,700	\$452
Other Operating Costs	\$12,529	\$5,251	\$137,821	\$146,166	\$150,350	\$8,345
Overhead (G.A.)	\$28,552	\$30,725	\$314,067	\$303,174	\$342,618	(\$10,893)
Subtotal Year 5	\$233,131	\$262,616	\$2,564,446	\$2,584,217	\$2,797,577	\$19,771
Fixed Fee Year 5	\$16,785	\$18,908	\$184,640	\$186,064	\$201,426	\$1,424
Total	\$249,917	\$281,524	\$2,749,086	\$2,770,281	\$2,999,003	\$21,195

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 85 routine/preventative and 13 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in March. 82 requests for service were responded to by service personnel. 125 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 2 water meters
- Installed 2 – 6” valves on water main beneath one of the buildings on the Ross Litton property to discontinue the water main
- Repaired curb stop 904 West Clinton 904 West Clinton
- Repaired curb stop 305 South 5th
- Advanced Plumbing cleaned sewer 100 block East 1st
- Replaced check valve on RPZ at North Water Plant

Wastewater Facilities

Maintenance staff performed 113 preventative and 11 repair work orders at the Consolidated Plant and North Pretreatment Plant.

- Gas system repairs including replacing buss bar in 240V panel, overloads, breakers, relay, and main breaker on gas collection system
- Installed new pump at phos plant lift station
- Pulled new chemical feed line and installed new air solenoid at phos plant
- Repaired door latch on Building 850 (chemical feed building)
- Repaired broken check valve on storm dewatering pump
- Replaced alum feed line from Building 850 to the oxidation ditch
- Added 250 tons of rock to the wastewater plant roadway along with regrading it after the winter thaw.

Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, pot hole patching and utility repair patching
- Scheduled vehicle service work (lube, oil, filters)
- Replaced rear tires on T11
- Replaced dash instruments and instrument sensors on T4
- Replaced snow plow wiring harness on T18

7. CAPITAL PROJECTS

North WWTP design at plus 60%, internal review and comments are being incorporated into the design. 90% design is due by the end of May.

CSO Phase 2 design schedule – final review before submitting to IEPA for their review and permitting.

CDBG water main project bid letting March 13th, 6 bidders, Laverdiere Construction was low bid at \$567,593.00. Project construction to begin on June 3rd.

MFT Street maintenance, (overlay program), for FY 2019-20 is in development. Approximately 60 blocks were reviewed by IMEG. Awaiting cost estimate to finalize the project.