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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

April 2019



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EXECUTIVE SUMMARY

The April 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.

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 Driver Safety Awareness. There were no safety incidents or near misses in April.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 155 million gallons of treated wastewater and an additional 13 million gallons of excess flow in the month of April. There were 2 combined sewer overflow events in April. The weather station at the plant reported 3.4” 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)	5.2	4.62
Ammonia N mg/l	<0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chlorides mg/l	304	500
Suspended Solids mg/l	9	12

3. WATER TREATMENT

The water treatment plants produced 89 million gallons of finished water in April. 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	2.98 MG	89 MG
Poly Phosphate Usage-lbs.	99 lbs.	2,978 lbs.
Salt Usage — tons	5.6	167 tons
Chlorine Usage - lbs.	117	3,504 lbs.

4. REVENUE COLLECTION

Table 4-1: FY to date

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

DATE	PAYMENTS	PAYMENTS APRIL 2019						FARM BONDS	FARM SURCHARGE	OTHER	PENALTY
		WATER	SEWER	LANDFILL	RECYCLE	GARBAGE	YARD WASTE				
04/01/19	\$27,571.82	\$12,177.48	\$9,005.87	\$1,831.32	\$1,312.98	\$3,010.02	\$231.40	\$0.00	\$0.00	\$0.00	\$2.75
04/02/19	\$14,135.72	\$6,386.82	\$4,670.19	\$861.39	\$620.09	\$1,482.98	\$114.25	\$0.00	\$0.00	\$0.00	\$0.00
04/03/19	\$14,351.45	\$6,235.16	\$4,224.83	\$1,073.39	\$770.61	\$1,896.13	\$151.30	\$0.00	\$0.00	\$0.00	\$0.03
04/04/19	\$14,490.60	\$7,696.89	\$3,719.68	\$845.51	\$601.46	\$1,506.51	\$119.27	\$0.00	\$0.00	\$0.00	\$1.28
04/05/19	\$104,033.60	\$41,384.20	\$32,556.89	\$4,023.92	\$2,920.83	\$6,738.70	\$522.66	\$15,886.40	\$0.00	\$0.00	\$0.00
04/08/19	\$190,964.79	\$87,065.76	\$76,926.68	\$2,392.99	\$1,716.45	\$3,855.24	\$278.04	\$18,179.41	\$549.29	\$0.00	\$0.93
04/09/19	\$22,979.10	\$10,421.59	\$7,259.94	\$1,600.32	\$1,140.49	\$2,366.20	\$183.28	\$0.00	\$0.00	\$0.00	\$7.28
04/10/19	\$58,347.73	\$27,004.91	\$21,569.33	\$2,878.58	\$2,057.03	\$4,488.51	\$342.91	\$0.00	\$0.00	\$0.00	\$6.46
04/11/19	\$4,384.21	\$1,662.25	\$1,132.56	\$270.70	\$192.19	\$955.02	\$33.76	\$0.00	\$0.00	\$0.00	\$137.73
04/12/19	\$12,006.37	\$5,187.17	\$3,907.03	\$684.47	\$495.16	\$1,196.57	\$86.06	\$0.00	\$0.00	\$0.00	\$449.91
04/15/19	\$12,530.80	\$5,599.33	\$3,481.03	\$826.03	\$586.95	\$1,447.48	\$109.26	\$0.00	\$0.00	\$0.00	\$480.72
04/16/19	\$7,330.12	\$2,989.44	\$2,203.56	\$509.49	\$362.89	\$932.33	\$69.45	\$0.00	\$0.00	\$0.00	\$262.96
04/17/19	\$4,225.95	\$1,793.15	\$1,363.41	\$257.77	\$185.80	\$448.44	\$32.35	\$0.00	\$0.00	\$0.00	\$145.03
04/18/19	\$2,510.01	\$1,029.30	\$735.15	\$196.25	\$136.75	\$309.49	\$20.79	\$0.00	\$0.00	\$0.00	\$82.28
04/19/19	\$7,017.86	\$3,112.44	\$2,442.91	\$341.11	\$250.78	\$547.75	\$38.41	\$0.00	\$0.00	\$0.00	\$284.46
04/22/19	\$4,852.41	\$2,014.73	\$1,467.41	\$337.01	\$247.86	\$571.52	\$40.08	\$0.00	\$0.00	\$0.00	\$173.80
04/29/19	\$33,885.63	\$7,867.80	\$5,710.72	\$1,367.41	\$958.48	\$1,907.59	\$149.47	\$15,886.40	\$0.00	\$0.00	\$37.76
04/30/19	\$6,399.60	\$2,615.56	\$1,862.80	\$559.00	\$401.55	\$891.21	\$69.48	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00										
TOTAL	\$542,017.77	\$232,243.98	\$184,239.99	\$20,856.66	\$14,958.35	\$34,551.69	\$2,592.22	\$49,952.21	\$549.29	\$0.00	\$2,073.38

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	\$123,913	\$1,517,309	\$1,466,539	\$1,517,309	(\$50,770)
Utilities	\$3,175	\$5,127	\$38,100	\$45,413	\$38,100	\$7,313
Chemicals Costs	\$25,250	\$14,412	\$303,000	\$313,623	\$303,000	\$10,623
Maintenance\Repair	\$27,642	\$29,754	\$331,700	\$375,832	\$331,700	\$44,132
Sludge Disposal Costs	\$500	\$0	\$6,000	\$1,671	\$6,000	(\$4,329)
Lab Supplies\Equip	\$3,479	\$6,223	\$41,750	\$46,760	\$41,750	\$5,010
Office Supplies	\$1,504	\$1,456	\$18,050	\$20,831	\$18,050	\$2,781
Miscellaneous Expenses	\$4,058	\$4,354	\$48,700	\$49,448	\$48,700	\$748
Other Operating Costs	\$12,529	\$2,718	\$150,350	\$148,884	\$150,350	(\$1,466)
Overhead (G.A.)	\$28,552	\$27,980	\$342,618	\$331,154	\$342,618	(\$11,464)
Subtotal Year 5	\$233,131	\$215,938	\$2,797,577	\$2,800,155	\$2,797,577	\$2,578
Fixed Fee Year 5	\$16,785	\$15,548	\$201,426	\$201,611	\$201,426	\$186
Total	\$249,917	\$231,485	\$2,999,003	\$3,001,766	\$2,999,003	\$2,763

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 85 routine/preventative and 41 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in April. 79 requests for service were responded to by service personnel. 177 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 19 water meters
- Repaired water main 400 East Euclid
- Replaced valve box 321 North Main
- Repaired curb stop 1110 South 9th
- Advanced Plumbing repaired sewer lateral 200 block North 1st
- Replaced check valve on RPZ at North Water Plant

Wastewater Facilities

Maintenance staff performed 129 preventative and 5 repair work orders at the Consolidated Plant and North Pretreatment Plant.

- Replaced shear pin on grit collector
- Repaired scum pump
- Service emergency generator at the lift station on North Sunnyside and West Girard
- Replaced sodium aluminate feed piping and pressure relief valve at the phos removal plant
- Replaced shear pin on the north plant clarifier

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)
- Repaired traffic signal at North Main and Euclid, replaced monitor and controller
- Replaced serpentine belt on Komatsu
- Replaced seal on T19
- Repaired exhaust pipe on T18
- Replaced brake line on T1
- Capped abandon sewer lateral at West Broadway and Sunnyside intersection

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 April 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.