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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

May 2018



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EXECUTIVE SUMMARY

The May 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.

May was a very routine but busy month as is the norm when winter ends and spring/summer arrives. Seasonal grounds crews have been busy with mowing/trimming of both City cemetery's, downtown cleanup and beatification and fountain/Central Park maintenance. Street crews finished up all the pothole patching, boulevard repairs, and utility dig street repairs, along with airport, campground, and lake mowing, city lot and right of way mowing, and private lots as directed by the Code Enforcement Officer.

Water and Wastewater Treatment plants continue to function well without any major issues. Capital projects are winding down for now with the completion of the Screw Pump project and Smithfield Forcemain project, the North Plant Clarifier project is about 80% completed through June which is well ahead of schedule.

The CDBG grant award to the City for the water main replacement project is awaiting actual distribution of funds from the State.

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 Confined Space Non-Entry Rescue Drill. There were no safety incidents or near misses in May.

Seasonal mowing staff was onboarded and completed initiation and safety training prior to starting work in April.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 127 million gallons of wastewater in the month of May. There was 1 combined sewer overflow event in May. The weather station at the plant reported 2.3” 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)	4.11	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chlorides mg/l	322	500
Suspended Solids mg/l	5	12

3. WATER TREATMENT

The water treatment plants produced 92 million gallons of finished water in May. 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	2.96 MG	92 MG
Poly Phosphate Usage-lbs.	94	2,908 lbs
Salt Usage — tons	5.8	180 tons
Chlorine Usage - lbs.	117	3,630 lbs

4. REVENUE COLLECTION

Table 4-1: FY to date

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

DATE	PAYMENTS	PAYMENTS MAY 2018						FARM BONDS	FARM		OTHER	PENALTY
		WATER	SEWER	LANDFILL	RECYCLE	GARBAGE	YARD WASTE		SURCHARGE			
05/01/18	\$11,967.21	\$4,877.06	\$3,433.75	\$1,036.96	\$721.99	\$1,752.49	\$140.98	\$0.00	\$0.00	\$0.00	\$3.98	
05/02/18	\$10,214.53	\$4,187.66	\$2,932.78	\$898.43	\$622.56	\$1,447.48	\$118.15	\$0.00	\$0.00	\$0.00	\$7.47	
05/03/18	\$17,399.91	\$7,486.26	\$5,036.69	\$1,353.63	\$960.83	\$2,368.04	\$192.95	\$0.00	\$0.00	\$0.00	\$1.51	
05/04/18	\$163,186.23	\$70,524.93	\$69,593.37	\$1,319.71	\$912.52	\$2,132.58	\$174.25	\$18,179.41	\$329.60	\$0.00	\$19.86	
05/07/18	\$74,930.42	\$34,371.82	\$24,152.38	\$4,754.40	\$3,334.37	\$7,680.49	\$622.97	\$0.00	\$0.00	\$0.00	\$13.99	
05/08/18	\$54,371.55	\$18,592.78	\$15,592.06	\$1,282.38	\$886.83	\$1,828.82	\$147.90	\$15,886.40	\$0.00	\$154.22	\$0.16	
05/09/18	\$17,378.37	\$7,931.40	\$5,349.00	\$1,231.87	\$852.06	\$1,859.04	\$150.37	\$0.00	\$0.00	\$0.00	\$4.63	
05/10/18	\$67,659.95	\$31,695.33	\$24,200.68	\$3,376.52	\$2,340.68	\$5,586.50	\$453.01	\$0.00	\$0.00	\$0.00	\$7.23	
05/11/18	\$8,000.56	\$3,514.25	\$2,194.72	\$584.09	\$402.03	\$962.98	\$78.04	\$0.00	\$0.00	\$0.00	\$264.45	
05/14/18	\$13,506.57	\$6,166.47	\$4,061.43	\$823.14	\$566.68	\$1,302.44	\$106.25	\$0.00	\$0.00	\$0.00	\$480.16	
05/15/18	\$8,571.54	\$3,471.31	\$2,578.46	\$635.75	\$437.59	\$1,062.81	\$85.85	\$0.00	\$0.00	\$0.00	\$299.77	
05/16/18	\$14,016.10	\$6,053.53	\$5,382.87	\$452.97	\$311.80	\$1,156.40	\$93.50	\$0.00	\$0.00	\$0.00	\$565.03	
05/17/18	\$9,988.48	\$4,565.89	\$3,511.65	\$530.24	\$367.19	\$562.02	\$45.05	\$0.00	\$0.00	\$0.00	\$406.44	
05/18/18	\$14,142.97	\$6,542.13	\$5,392.15	\$472.53	\$325.31	\$757.00	\$61.20	\$0.00	\$0.00	\$0.00	\$592.65	
05/21/18	\$7,451.61	\$3,206.09	\$2,233.84	\$516.67	\$345.20	\$819.10	\$64.60	\$0.00	\$0.00	\$0.00	\$266.11	
05/29/18	\$5,890.04	\$2,414.44	\$1,709.44	\$490.37	\$342.75	\$830.96	\$70.58	\$0.00	\$0.00	\$0.00	\$31.50	
05/30/18	\$6,995.36	\$2,822.49	\$2,023.13	\$612.00	\$421.25	\$1,032.53	\$82.45	\$0.00	\$0.00	\$0.00	\$1.51	
05/31/18	\$10,627.25	\$4,751.68	\$2,799.49	\$882.76	\$624.15	\$1,452.13	\$113.90	\$0.00	\$0.00	\$0.00	\$3.14	
	\$0.00											
TOTAL	\$516,298.65	\$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	

5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 5

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$126,442	\$98,019	\$126,442	\$98,019	\$1,517,309	(\$28,424)
Utilities	\$3,175	\$452	\$3,175	\$452	\$38,100	(\$2,723)
Chemicals Costs	\$25,250	\$26,659	\$25,250	\$26,659	\$303,000	\$1,409
Maintenance\Repair	\$27,642	\$34,103	\$27,642	\$34,103	\$331,700	\$6,461
Sludge Disposal Costs	\$500	\$0	\$500	\$0	\$6,000	(\$500)
Lab Supplies\Equip	\$3,479	\$1,361	\$3,479	\$1,361	\$41,750	(\$2,118)
Office Supplies	\$1,504	\$2,450	\$1,504	\$2,450	\$18,050	\$946
Miscellaneous Expenses	\$4,058	\$3,747	\$4,058	\$3,747	\$48,700	(\$311)
Other Operating Costs	\$12,529	\$12,316	\$12,529	\$12,316	\$150,350	(\$213)
Overhead (G.A.)	\$28,552	\$22,133	\$28,552	\$22,133	\$342,618	(\$6,418)
Subtotal Year 5	\$233,131	\$201,240	\$233,131	\$201,240	\$2,797,577	(\$31,891)
Fixed Fee Year 5	\$16,785	\$14,489	\$16,785	\$14,489	\$201,426	(\$2,296)
Total	\$249,917	\$215,729	\$249,917	\$215,729	\$2,999,003	(\$34,187)

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 86 routine/preventative and 8 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in May. 85 requests for service were responded to by service personnel. 144 requests for City utility locates from the J.U.L.I.E. call center was completed. Water distribution system and sewer collection system items:

- Repaired water main 1000 block South 8th
- Repaired water main 300 North I
- Repaired vacuum breaker at campground lift station
- Replaced 13 water meters

Wastewater Facilities

Maintenance staff performed 135 routine/preventative work orders at the Consolidated Plant and North Pretreatment Plant

Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, pot hole patching, street sweeping
- Scheduled vehicle service work (lube, oil, filters)
- Replaced Pedestrian Crossing signs on East Broadway
- Replaced seals and ball joints on T11 (2008 F450)
- Replaced hydraulic hoses on the New Holland mowing tractor

7. CAPITAL PROJECTS

North Plant Clarifier:

Clarifier Mechanism was delivered to the site mid – June. Installation is approximately 80% completed with a targeted startup the week of July 16th.