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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

May 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 7

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EXECUTIVE SUMMARY

The May 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.

With the nearly 13" of rain in May and wet weather continuing into June, there were 2 significant sewer collapses and one sewer later issue that had to be addressed and repaired.

Groundskeeping crews were able to have both cemetery's ship shape for Memorial Day despite all the rain and the incensed gnats that fight you for the right to be outdoors.

IMEG finished up the proposed MFT street maintenance program and submitted to IDOT for their approval. Total project cost estimated at \$765,375 of which \$598,000 will be funded with MFT and \$167,000 with Local Fuel Tax. I have attached the cost estimate, proposal, maps and operations forms to the report for your information.

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 May.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 221 million gallons of treated wastewater and an additional 98 million gallons of excess flow in the month of May. There were 12 combined sewer overflow events in May. The weather station at the plant reported 12.75" 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)	7.1	4.62
Ammonia N mg/l	<0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.9	1
Chlorides mg/l	202	500
Suspended Solids mg/l	9	12

3. WATER TREATMENT

The water treatment plants produced 90 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	2.91 MG	90 MG
Poly Phosphate Usage-lbs.	99 lbs.	3,083 lbs.
Salt Usage — tons	5.6	175 tons
Chlorine Usage - lbs.	114	3,546 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	\$106,451	\$129,524	\$106,451	\$1,554,290	(\$23,073)
Utilities	\$3,217	\$1,834	\$3,217	\$1,834	\$38,608	(\$1,383)
Chemicals Costs	\$25,587	\$32,944	\$25,587	\$32,944	\$307,040	\$7,357
Maintenance\Repair	\$29,573	\$38,793	\$29,573	\$38,793	\$354,870	\$9,221
Sludge Disposal Costs	\$833	\$0	\$833	\$0	\$10,000	(\$833)
Lab Supplies\Equip	\$3,526	\$6,842	\$3,526	\$6,842	\$42,306	\$3,317
Office Supplies	\$1,524	\$988	\$1,524	\$988	\$18,291	(\$536)
Miscellaneous Expenses	\$4,113	\$4,417	\$4,113	\$4,417	\$49,351	\$304
Other Operating Costs	\$12,687	\$16,441	\$12,687	\$16,441	\$152,238	\$3,755
Overhead (G.A.)	\$29,247	\$24,037	\$29,247	\$24,037	\$350,969	(\$5,210)
Subtotal Year 7	\$239,830	\$232,747	\$239,830	\$232,747	\$2,877,963	(\$7,083)
Fixed Fee Year 7	\$17,268	\$16,758	\$17,268	\$16,758	\$207,213	(\$510)
Total	\$257,098	\$249,505	\$257,098	\$249,505	\$3,085,177	(\$7,593)

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 61 routine/preventative and 16 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in May. 139 requests for service were responded to by service personnel. 100 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
- Repaired water main 800 block North 8th
- Repaired water main Cramer Court
- Repaired service line 800 block South Main
- Repaired 8” sewer 300 East 11th
- Sewer cleaning 1100 South Main
- Repaired brine pump North Water Plant
- Replaced chlorine regulator at North Water Plant

Wastewater Facilities

Maintenance staff performed 98 preventative and 6 repair work orders at the Consolidated Plant and North Pretreatment Plant.

- Replaced the add-a-phase at Industrial Park lift station
- Installed rebuilt gas blower for flare
- Replaced both motors for Phos Plant feed pumps, new motor leads, new 110-amp fuses
- Re-charged AC a Phos Plant building

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 shifter cable T4
- Repaired air line and hydraulic leak T14
- Repaired transmission leak T42
- Repaired reverse lever on TC45
- Replaced hydraulic line on Komatsu
- UCM (Gunther) paved 100 block West Harlem from water main break

7. CAPITAL PROJECTS

North WWTP specs and design sent to Illinois EPA for permitting

CSO Phase 2 specs and design sent to Illinois EPA for permitting

Southeast CDBG water main project got started June 25th, late start due to contractor emergencies including 3 sewer repairs for the City

Bid letting for 2019 MFT Street Maintenance Program will be July 9th