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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

February 2020



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EXECUTIVE SUMMARY

The February 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.

Harris United, the Love's project general contractor, mobilized and began earth work at the site the week of March 17th. We were able to obtain about 60 tons of black dirt for free from this project for use at the cemetery and for boulevard repairs. The City water and sewer utility extensions project went out for bid on March 27th with a bid opening scheduled for April 22nd

Street crews focused on pothole patching starting with the snow routes and main thoroughfares while practicing social distancing. The time required to cover all of the streets will increase with only one man per truck and your patience is appreciated.

The response to the required residential cross connection surveys that were sent out the week of March 16th have been good so far.

Seasonal mowing crew is set to start on April 20th

CSO Phase 2 six-month progress report mailed to IEPA – lead time on equipment delivery is now 13 to 15 weeks due to the COVID 19 pandemic. This pushes back the completion date to July 3rd for the project.

IMEG continues work on the Phase 1 environmental assessment, survey, and preliminary road design for West Harlem

Please contact me at 309-734-4026 with any questions.

Regards, Andy

1. HEALTH AND SAFETY/STAFF

Staff completed personal protective equipment for hands, arms, body, and hearing protection. There were no safety incidents or near misses in February. With the COVID 19 pandemic affected everyone, our staff is updated regularly on any new policy change, preventative measures, and PPE. All staff members are practicing social distancing while at work to help prevent the spread of the virus.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 126 million gallons of treated wastewater in the month of February. There were no combined sewer overflow event in February. The weather station at the plant reported 0.5” of rain and 4” of snow 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)	4.31	4.62
Ammonia N mg/l	0.2	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chlorides mg/l	340	500
Suspended Solids mg/l	7	12

3. WATER TREATMENT

The water treatment plants produced 80 million gallons of finished water in February. 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	2.77 MG	80 MG
Poly Phosphate Usage-lbs.	92 lbs.	2,668 lbs.
Salt Usage — tons	4.5	129 tons
Chlorine Usage - lbs.	111	3,210 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	\$117,194	\$1,295,242	\$1,232,346	\$1,554,290	(\$62,896)
Utilities	\$3,217	\$3,911	\$32,173	\$32,390	\$38,608	\$217
Chemicals Costs	\$25,587	\$42,130	\$255,867	\$272,188	\$307,040	\$16,321
Maintenance\Repair	\$29,573	\$28,173	\$295,725	\$347,077	\$354,870	\$51,352
Sludge Disposal Costs	\$833	\$0	\$8,333	\$0	\$10,000	(\$8,333)
Lab Supplies\Equip	\$3,526	\$1,398	\$35,255	\$45,379	\$42,306	\$10,124
Office Supplies	\$1,524	\$125	\$15,243	\$14,521	\$18,291	(\$722)
Miscellaneous Expenses	\$4,113	\$3,989	\$41,126	\$40,588	\$49,351	(\$538)
Other Operating Costs	\$12,687	\$5,272	\$126,865	\$139,290	\$152,238	\$12,425
Overhead (G.A.)	\$29,247	\$26,463	\$292,474	\$278,272	\$350,969	(\$14,202)
Subtotal Year 7	\$239,830	\$228,655	\$2,398,303	\$2,402,051	\$2,877,963	\$3,748
Fixed Fee Year 7	\$17,268	\$16,463	\$172,678	\$172,948	\$207,213	\$270
Total	\$257,098	\$245,118	\$2,570,980	\$2,574,998	\$3,085,177	\$4,018

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 67 routine/preventative and 19 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in February. 40 requests for service were responded to by service personnel. 45 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 6 water meters
- Repaired water main 600 North G
- Repaired water main 300 East Broadway
- Replaced curb stop 808 North E
- Replaced chlorine feed piping at both Water Plants

Wastewater Facilities

Maintenance staff performed 91 preventative and 3 corrective work orders at the Consolidated Plant and North Pretreatment Plant.

- Replaced VFD on #1 gas blower
- Replaced electrical breaker on gas blower #2
- Replaced pump diaphragm on chemical feed pump #1 at phos plant

Street/Grounds/Right of Way/Fleet

- Various tree removal
- Snow removal & street salting, 2 events
- Scheduled vehicle service work (lube, oil, filters)
- Repaired transmission lines, serpentine belt, and thermostat on T4
- Repaired fuel line and wiring harness on T16
- Replaced flywheel on Komtazu end loader
- Replaced wheel studs on T19
- Repaired intersection of North Main Street and Harlem Avenue

7. Capital Projects

North Pre-Treatment Plant upgrade: Leander Construction was the low bidder for the North WWTP upgrade project. They have supplied their bonds, insurance, preliminary work schedule and executed the construction contract. Mobilization will occur starting in mid-late April.

CSO Phase 2 construction : project is awaiting equipment delivery; contractor will begin setting structures once the site dries up a bit.

Love's Travel Stop site construction is underway, City utility extension project will be advertised for bid by March 27th with a bid opening set for April 22nd.

IMEG is working on the Phase 1 environmental survey and preliminary design for the West Harlem road project.