



FURNISH, DELIVER AND INSTALL DISC FILTERS - EGAN WATER RECLAMATION PLANT

Participant: Metropolitan Water Reclamation District of Greater Chicago

Location: Chicago, Illinois

Investment class: Green Bonds

Amount to be financed: US\$6,700,000

The Project: Replace six sand filter beds with new disc filters, install one new 7,500-gallon fiberglass tank, and rehabilitate raw sewage pumps at the Egan Water Reclamation Plant (EWRP); and line the effluent conduit at the Hanover Park Water Reclamation Plant (HPWRP).

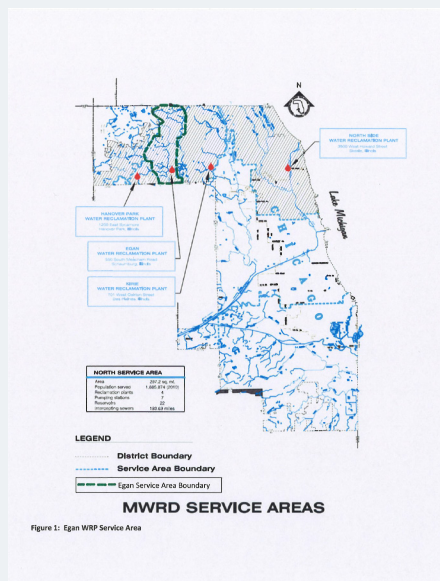
The existing design maximum capacity of secondary treatment at the EWRP is 60 million gallons/day (MGD), but the maximum tertiary capacity is only 44 MGD. Further, during backwash cycles, the tertiary capacity is decreased to 34 MGD. The EWRP currently utilizes six pairs of filter beds. By installing six disc filters in half of the beds and decommissioning the rest, the total filtering capacity can be increased from 34 to 60 MGD with no loss of capacity during the backwash cycle (12) and providing full treatment before outfall and no risk of permit violation. A new sodium bisulfite storage tank will be installed to neutralize any residual sodium hypochlorite in the effluent, and raw sewage pumps pumps and motors will be rehabilitated to alleviate vibrations and replace the worn bearings.

Inspection of the HPWRP effluent conduit identified leaks at the flanges; lining of the cast iron pipe is identified as the best solution to eliminating the leaks.

ESG Outcomes:

- Nutrient reduction

For more information, contact:
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Alignment with UN Sustainable Development Goals:

