

Route: Ahmad Laban
Future
The map

INTEROFFICE MEMORANDUM

Metropolitan Water Reclamation District Of Greater Chicago

DEPARTMENT: M&O – North Service Area

DATE: September 25, 2018

TO: Sergio E. Serafino, Acting Director of Maintenance and Operations
FROM: Hitesh Shah, Managing Engineer – Egan Operations
SUBJECT: EMS for Biosolids – Element 5, Revised Goal

Egan's current goal of increasing digester gas usage is no longer relevant for the following reasons:

- Additional areas for digester gas usage have been exhausted.
- There is no extra storage for digester gas, making it impractical to hold a reserve for use during high demand periods. Currently, the Combined Heat and Power project that would have provided the needed storage is on hold.

Consequently, a new goal of increasing dewaterability of Egan digested sludge has been set. The goal is a 2 percentage point increase to 23% cake dryness by 2025. In 2017, and year-to-date in 2018, the average total solids content of the centrifuge cake were 20.35% and 20.72%, respectively.

The short and long-term plans to achieve this goal are as follows:

Short Term: Optimize ferric chloride and polymer usage by determining the most cost-effective combination resulting in drier cake.

Long Term: M&O will work with M&R to evaluate dewatering equipment for a more beneficial option. Kirie BioP process has reduced the dewaterability of the sludge in the centrifuge operations, necessitating exploring of other technologies less impacted by BioP. The timeframe for this evaluation, along with auxilliary centrifuge equipment upgrade, is 5 years.

Hitesh Shah

Hitesh Shah
Managing Engineer

do

LNO:ss
C: Laban (EMS File)

M. W. R. D. G. C.
18 SEP 25 PM 1:15
CHIEF OF M & O