



EveraSKID

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Transforming Decentralized Water Management at Munson Point Subdivision with QUA's EnviQ[®] MBR Technology



Pure Technology



Client: Munson Point Subdivision (Denison, Texas)

Plant Capacity: 10,000 GPD (38 m³/d)

Challenges:

Munson Point, a Texas housing development, faced challenges with its existing onsite wastewater treatment system and sought a new solution to help it achieve compliance. The subdivision chose to opt for a decentralized, modular solution that would enable them to install and operate the system swiftly at their site.

- Meeting specific water quality requirements for Munson Point, a new subdivision.
- Replacing existing on-site treatment with a more efficient decentralized solution.
- Ensuring high performance and sustainability for Munson Point's water management practices.

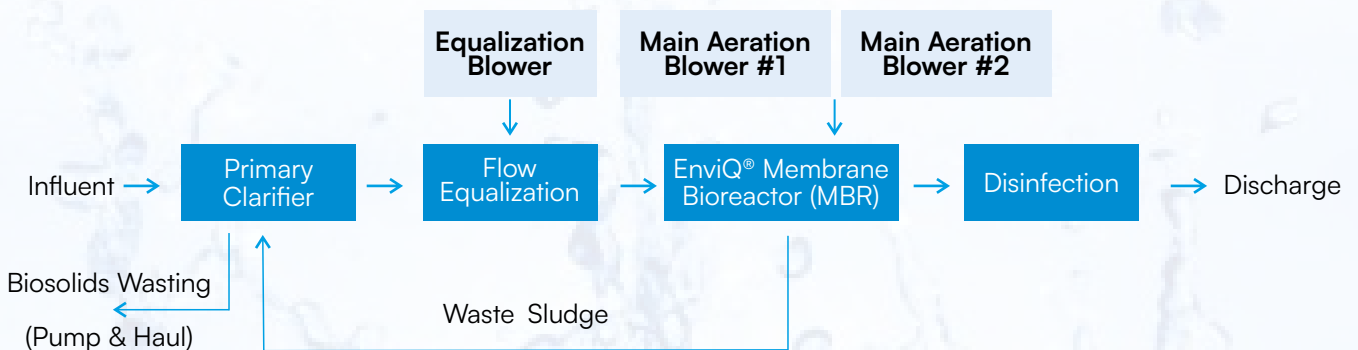
QUA's Solution:

QUA's EnviQ® submerged membrane bioreactor (MBR) technology was seamlessly integrated into the EveraSkid (EVS) decentralized system. This integration has allowed the decentralized water system to achieve exceptional performance and sustainability standards, revolutionizing water management practices in the Munson Point.

QUA's EnviQ® submerged membranes are engineered to enhance the operational efficiency and maintenance of MBR facilities. They ensure reliable and consistent production of ultrafiltration quality effluent with <1 NTU turbidity and ~5-6 log reduction of bacteria. EnviQ®'s cutting-edge design incorporates a robust PVDF flat sheet membrane and a proprietary diffuser system, guaranteeing exceptional durability and performance.

Decentralized wastewater treatment applications overcome many of the challenges large central utilities face. These systems provide flexible, efficient, and scalable solutions, ensuring that even smaller communities like Munson Point Subdivision can achieve high-quality water treatment standards without relying on extensive central infrastructure.

Flow Diagram:



	Influent Water	Product Water
Biological Oxygen Demand (BOD)	350 mg/l	< 10mg/l
Total Suspended Solids (TSS)	350 mg/l	< 10mg/l
Total Kjeldahl Nitrogen (TKN)	50 mg/l	< 1 mg/l

Results:

Since its installation, the system has exceeded expectations, meeting Munson Point Subdivision's produced water requirements and allowing for safe discharge directly to Lake Texoma. This decentralized water system has set new standards for performance and sustainability, revolutionizing water management practices by utilizing QUA's cutting-edge EnviQ® membrane bioreactor technology.