THETIS ENVIRONMENTAL

Battle Creek Automotive

Michigan, USA

Commissioned in 2023

Oil & Grease Wastewater

15,000 GPD

Influent: 1 - 1.1% TSS, 3 - 7% oil

4 V10 PermaFlux™ Modules

Challenge:

The customer needs to treat the oily wastewater from their production line in order to meet city discharge limits. The wastewater has a mixture of solids and emulsified oils.

The stream has high levels of suspended solids (10,000 - 11,000 ppm) and emulsified oils (30,000 – 70,000 ppm). An existing tubular membrane system was present, but the high energy use of the system motivated the customer to seek alternative options.

PermaFlux™ UF Membrane Solution:

The wastewater from the production line is sent to a floor pit where it is treated with a free oil separator and then sent to a holding tank.

The PermaFlux™ system for this project consists of four V10XL modules. The UF membrane system draws feed directly from the holding tank. The permeate from the PermaFlux™ system is sent to drain as it meets all the local discharge requirements. The concentrated oil solution is returned to the feed tank, which is emptied periodically. The unit is operated and maintained by a single operator part-time.

Thetis was awarded the contract after a successful two-month long pilot study on site.

Contact Thetis Today!

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