

# Perma Flux™

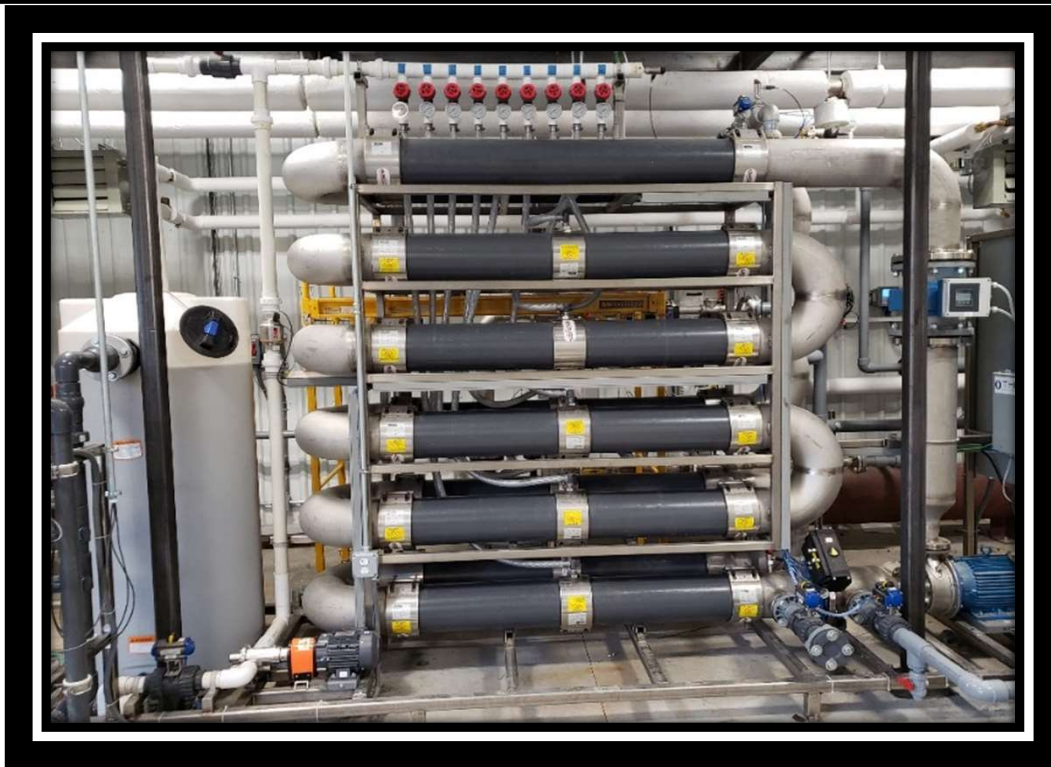
## Smuttynose Brewing Company

## Case Study

<b>Application:</b>	Anaerobic Digestate Treatment	<b>Location:</b>	Hampton, New Hampshire, USA
<b>Capacity:</b>	33,000 GPD	<b>Commissioned:</b>	2019 (1 day on-site commissioning)

**Challenge:**

Smuttynose Brewing Company is one of the largest microbreweries in New Hampshire. It features an on-site anaerobic digester that treats the wastewater generated throughout the brewing process. The contents of this digester need to be treated to meet water quality discharge limits while maintaining capacity for incoming brewery waste.



**Solution:**

After a successful 2 month pilot study at a nearby brewery where a PermaFlux™ Ultrafiltration membrane system competed against alternative membrane manufacturers and water treatment technologies, Thetis was awarded the contract to provide a filtration solution to treat anaerobic digestate.

The PermaFlux™ system draws digestate directly from the digester (influent TSS concentration 1-2%), produces clean permeate that is sent directly to then drain while supplying concentrate (up to 4% TSS) to the anti-foaming nozzles back inside the digester. The plant has met or exceeded all final discharge requirements since start-up and is operated and maintained by a single operator.