

May 02, 2026

RE: Flow Narrative
Wastewater Treatment Facilities
Basecamp – Torch Lake
Forest Home Twp., Antrim County, MI

Currently, sewage from the Dockside Restaurant located on Torch Lake is pumped to a sub-surface adsorption drain field located east of the intersections of Old Torch Lake Dr., SE Torch Lake Dr., and Clam Lake Rd. The Dockside sewage runs through on-site grease tanks and septic tanks prior to being pumped.

The proposed project will demolish the existing drain field. The Dockside sewage forcemain will be intercepted and re-directed to the combination manhole west of Clam Lake Dr. Sewage from the proposed Basecamp – Torch Lake development will flow by gravity to the combination manhole as well.

From the combination manhole, flows will continue on to the packaged wastewater treatment plant.

Exiting the treatment plant, flows will discharge to the effluent pump station. The effluent pump station is sized to discharge one (1) 5,000 gallon dose, three (3) times per day at the peak treatment design flowrate (15,000 gpd). The pump station will discharge to proposed rapid infiltration basins to the southeast. The pump station valve vault contains automated valves that will switch flow between two forcemains discharging to each of the two (2) RIB's. Controls will be set such that after three (3) doses go to one RIB, the automated valves will cycle to direct flow to the adjacent forcemain and thus discharge to the adjacent RIB.

Please feel free to contact me to discuss these findings, or with any further questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian O. House".

Brian O. House, P.E.

Wastewater Conveyance Practice Lead

Wastewater Treatment Practice Lead

SPICER GROUP, INC

Cell: (517) 214-0882

E-mail: brianh@spicergroup.com

Attachments:

None.

CC: SGI File 139871SG2025