

AMPHIDROME[®] FACILITY REPORT

Plant & Location: Wequassett Inn, East Harwich, MA

Massachusetts DEP Permit Number: SE-851-0

Facility type: Resort & Seasonal Residences

Chemical Feeds: Carbon & alkalinity

Design Flow: 45,000 gpd

Design: This plant was designed to meet groundwater discharge limits including total nitrogen of ≤ 10 mg/L and a fecal limit of ≤ 200 cfu/100ml. The UV unit is an Aquionics model InLine 40+ unit designed to disinfect 40gpm at 65% UV Transmittance (UVT).

Summary: This Amphidrome[®] Plus system has been in operation since 2005. The average effluent results for the most recent 12 months of the plant operation are shown in the table below.

	BOD₅	TSS	Total N	Fecal
Permit Limit	<i>30 mg/L</i>	<i>30 mg/L</i>	<i>10 mg/L</i>	<i>200 cfu/100ml</i>
Average	12.9 mg/L	6.4 mg/L	7.6 mg/L	ND* cfu/100ml

*ND – Non-Detect (Below Detection Limit)

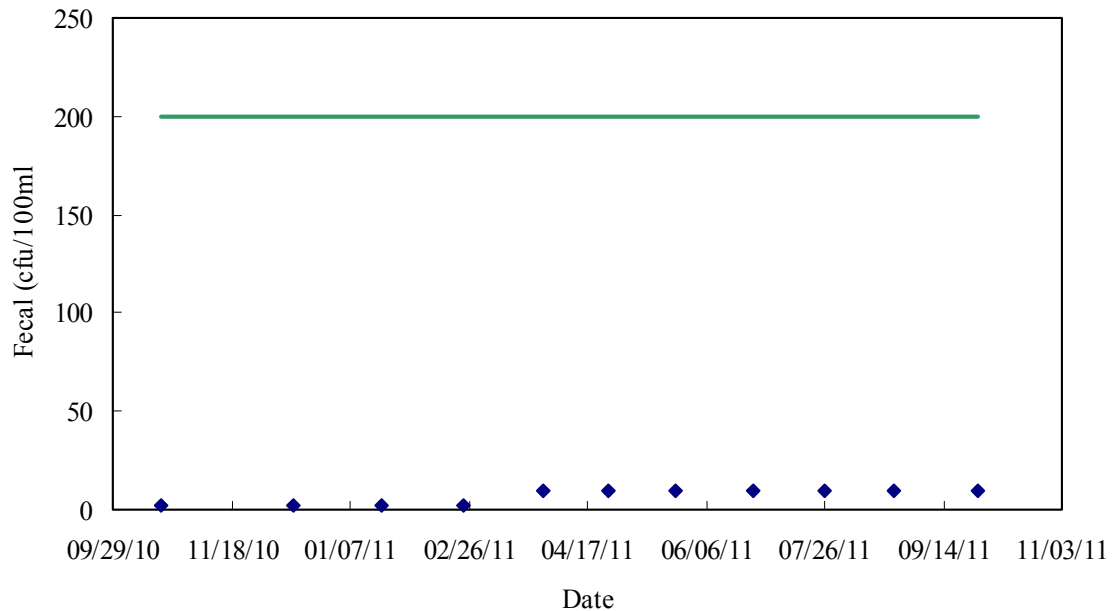


Figure 1. Wequassett Inn Fecal

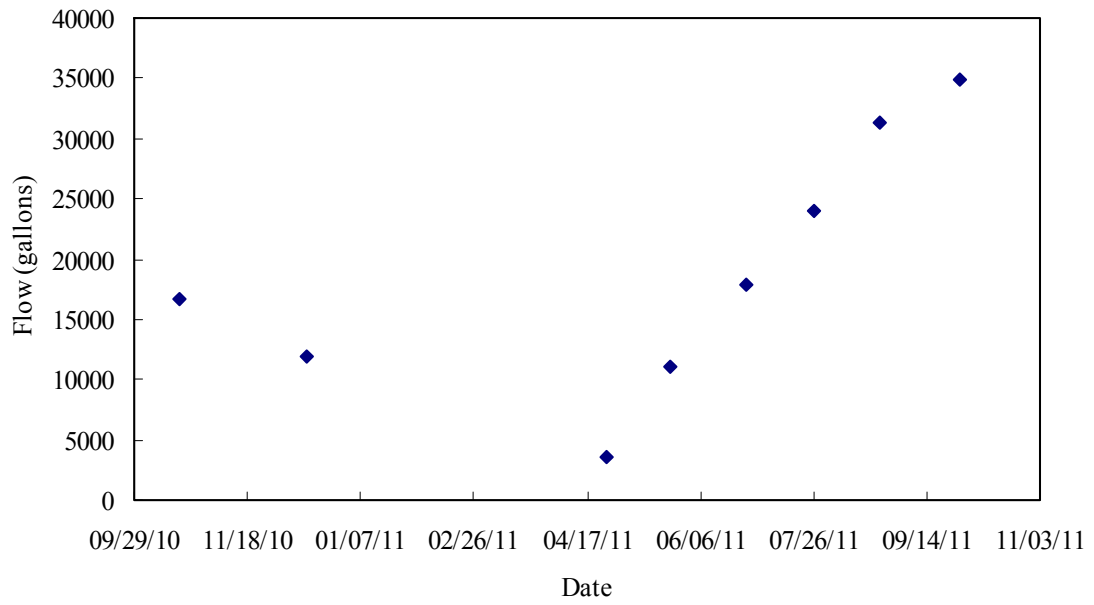


Figure 2. Wequassett Inn Flow at Sample Date (Seasonal)