AMPHIDROME® FACILITY REPORT

Plant & Location: The Shoppes at 10.5, Nags Head, NC

NCDENR: DWQ Certificate: #94, DLS Certificate: #37729

Facility type: Shopping plaza with grocery store.

Chemical Feeds: Carbon & alkalinity

Design Flow: 8,000 gpd

Design: This plant was designed to meet groundwater discharge limits including total nitrogen of \leq 20 mg/L and a fecal limit of \leq 1,000 cfu/100ml. The UV unit is an Aquionics model InLine 40+ unit designed to disinfect 40gpm at 65% UV Transmittance (UVT).

Summary: This Amphidrome® system has been in operation since 2009. The average effluent results for the most recent 12 months of the plant operation are shown in the table below.

	BOD ₅	TSS	Total N	Fecal
Permit Limit	15 mg/L	15 mg/L	20 mg/L	1,000 cfu/100ml
Average	5.4 mg/L	5.3 mg/L	4.2 mg/L	538.9 cfu/100m

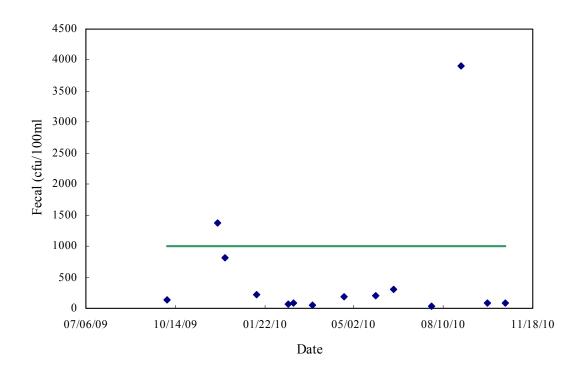


Figure 1. The Shoppes at 10.5 Total Fecal