

SYSTEM STUDY: Grand Bahama Shipyard, Ltd. Freeport, Grand Bahama Island



FAST FACTS

Project:

- ✓ bioFAS™ IFAS System for Ship Repair Company

Industry:

- ✓ Centralized Wastewater Treatment

Application:

- ✓ Biochemical Oxygen Demand (BOD) Removal
- ✓ Total Suspended Solids (TSS) Removal

bioFAS™ MBBR System

Benefits/Highlights:

- ◆ Efficient reduction of BOD
- ◆ Ideal for high and varying loads
- ◆ Cost-effective
- ◆ Compact footprint & modular
- ◆ Easy to operate & maintain

Problem:

The Grand Bahama Shipyard’s existing wastewater treatment system was overloaded and undersized to effectively treat the wastewater generated onsite and pumped by ships docked at the facility.

Solution:

bioprocessH2O supplied an equipment package to retrofit and upgrade the existing treatment system converting the conventional activated sludge system into a bioFAS™ IFAS biological treatment process. The bioFAS™ attached growth fixed film process upgrade allowed the Shipyard facility to use the existing WWTP infrastructure and increase the system capacity from 80,000 to 264,000 GPD.

Status/Results:

The bioFAS™ IFAS system effectively removes the BOD and TSS down to compliance standards at elevated wastewater flow rates.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	264,000 GPD	-
BOD	400 mg/L	<30 mg/L
TSS	200 mg/L	<30 mg/L

Contact bioprocessH2O today!

