

Project Site Plan

Innovative Components:

- New Media Technology for nutrient removal in marine waters
- Modular Roll-off Deployment to meet long-term or short-term treatment objectives in a small footprint

Projected Removals:

- TP – 67% removal*
(2.7 lb/yr P removed)
- TN - 25% removal*
(18.6 lb/yr N removed)

*20-year Lifetime removal efficiency

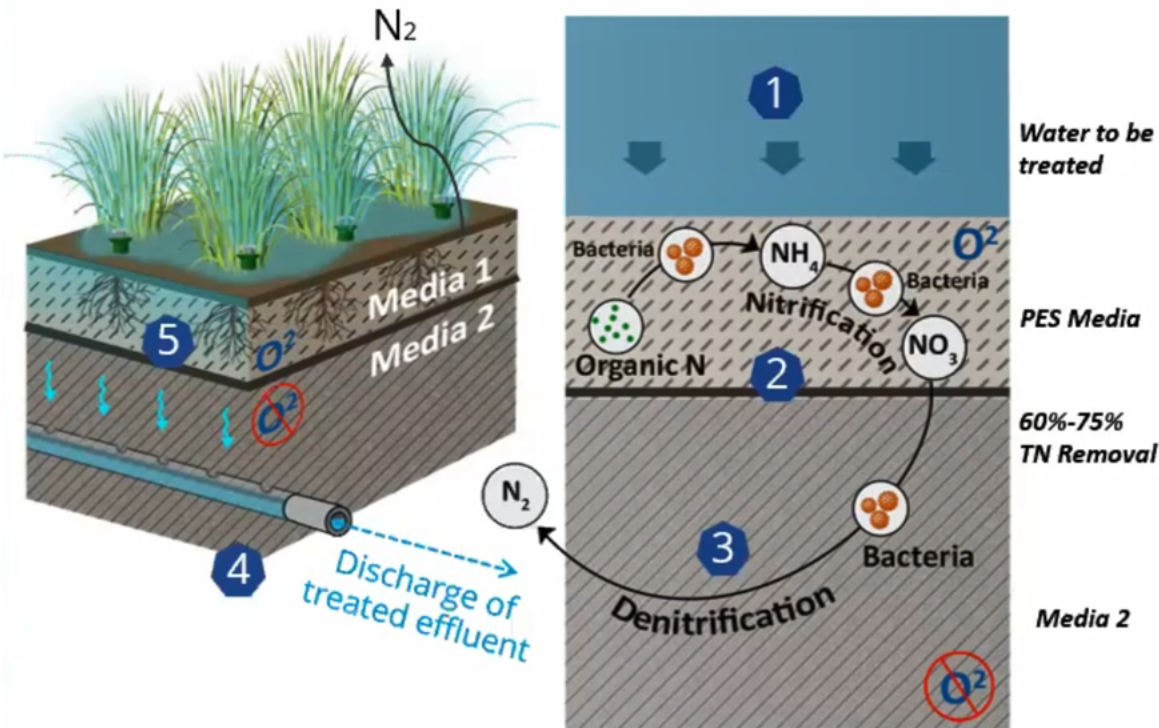


SWIG Pilot Project in Key Colony Beach Layout



PES + Nitrogen System- Overview

PES + N



- 1 Water is distributed onto and passes vertically through two layers of patented media (think "Brita" filter)
- 2 The first media layer is aerobic and transforms organic nitrogen and ammonia into nitrate. This layer can be modified to include a phosphorus removal (PES) option.
- 3 The second media layer is anoxic and transforms nitrate into harmless nitrogen gas which is released to the atmosphere
- 4 Treated effluent is collected via underdrain pipe(s) and discharged into receiving waters
- 5 Robust plant growth with deep roots maintains media porosity and creates dense wildlife habitat
- 6 No media replacement required for ONE. Combined PES + N systems require replacement of first media layer