

Hammonasset Beach State Park

**CT Department of Energy &
Environmental Protection**

**Park receives over
1,000,000 annual visitors**

Profile

- State beach in need of new bathhouse facilities
- Environmentally sensitive area
- Picnic area, nature center, boat launch, walking trails, camping, concessions
- 2-mile long beach

Challenge

- Protect Long Island Sound from polluting wastewater discharge
- Eliminate nitrogen produced by flushing toilets
- Provide waste treatment system to handle usage by thousands of daily visitors
- Create minimal site disturbance and preserve natural landscape

Solution

- Installed Clivus composting system with waterless toilets
- Eliminated sewage altogether
- Discharged greywater only
- Eliminated over a million gallons of wastewater annually
- Partial funding from *EPA Clean Water Act Section 319 Nonpoint Source Pollution Management* grant
- Building designed by TLB Architecture





Toilet chutes await fixtures

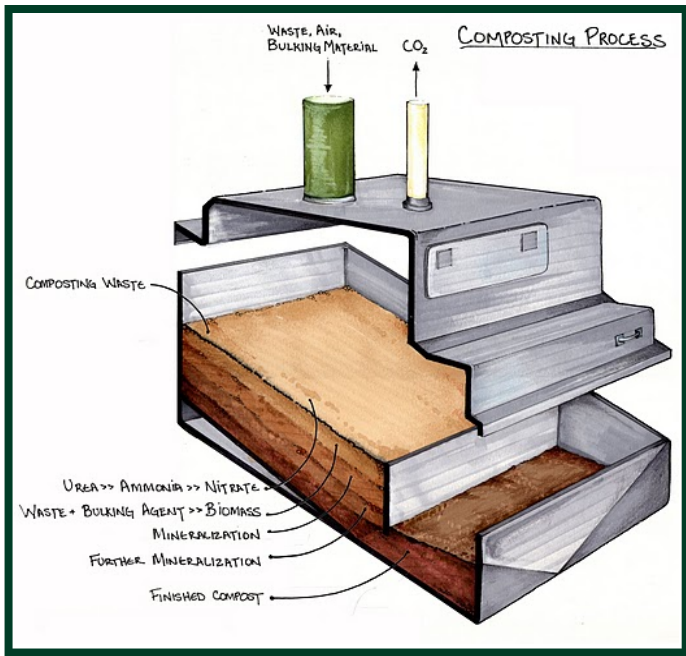
Composting system is integrated into building design



Restrooms are odor-free and have a conventional look and feel

Clivus New England is involved in its projects from pre-conception through the design and installation processes to ensure 100% feasibility. Usage data from the owner is collected for proper system sizing and architectural plans are analyzed to insure that structures can incorporate the Clivus equipment without undermining building or system designs. Clivus technicians work with contractors and plumbers to guarantee and certify that installations meet the manufacturer's requirements.

All Clivus systems are NSF Standard 41 Tested and Certified



Composting takes place in all soils which support plant and animal life. The Clivus systems employ the same process in the controlled environment of the composting chamber. As waste breaks down in the composter a less chemically complex, more chemically stable substance rich in organic matter and very similar to soil is produced. Human waste consisting mostly of water is reduced by over 90%. By-products of the composting process are water vapor and CO₂ and are released harmlessly into the atmosphere through the ventilation system.

