

Educational Facility

R W Kern Center Hampshire College

Amherst, MA

Profile

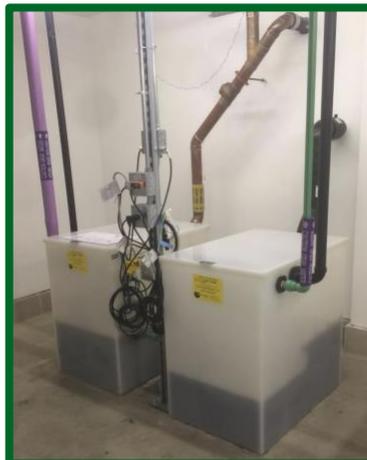
- Private college founded in 1970
- New 17000 square foot admissions building
- Various offices; conference and media rooms
- Lobby café with seating
- Living Building Challenge (LBC) protocol

Challenge

- Provide restroom facilities while adhering to LBC standards
- Greatly reduce water consumption
- Minimize both solid and liquid waste
- Upcycle liquid and solid waste products to living, ornamental planter beds

Solution

- Clivus composting waste treatment system
- Clivus greywater filtering system
- Nutrient-recycling planter beds
- Architecture by Bruner-Cott Architects and Planners, Cambridge, MA
- Engineering by Berkshire Design, Northampton, MA



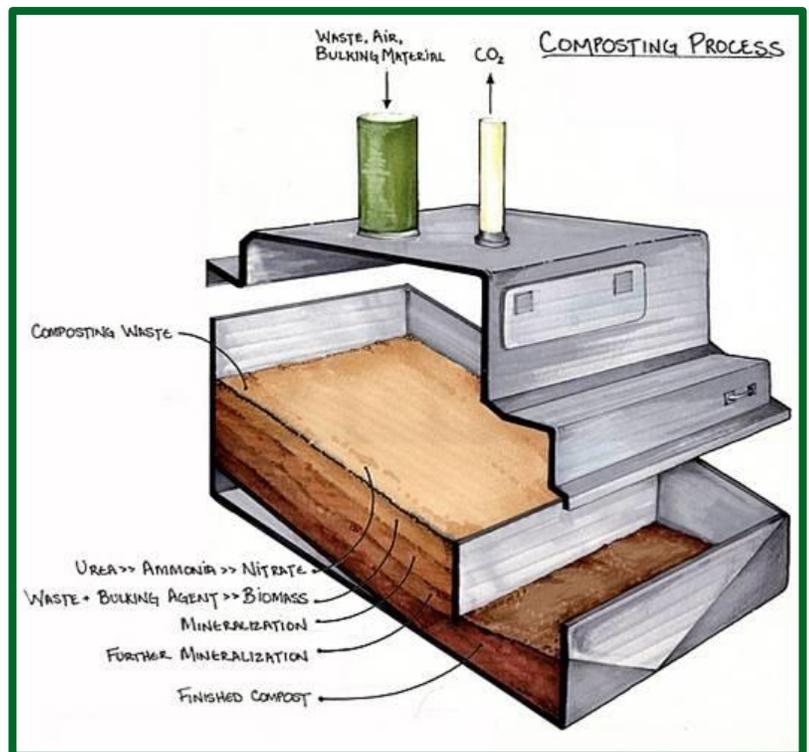


Waste water from sinks is treated by the Clivus greywater filtering system and dispersed throughout indoor greywater planter beds. The drip dispersal dosing method delivers the nutrient rich greywater to the roots of the plants where it is taken up and used as food.

All Clivus composting systems are NSF Standard 41 Tested and Certified

Composting takes place in all soils that 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 much like 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.

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 ensure that structures can incorporate the Clivus equipment without undermining building or system designs. Whether it's one composter and one toilet, or several composters and many toilets, Clivus technicians work with contractors and plumbers to guarantee and certify that installations meet the manufacturer's requirements.



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incorporated