

DECOMPOSE vs WASTE AWAY

Solid Waste Management Systems



Decompose - Camp Tamarack, OR



Waste Away - Rocky Mountain National Park, CO

Toilet Tech urine-diverting conveyor toilets excel at human waste management at remote sites, reducing waste mass and volume by 75-95%. Urine is diverted to a drainfield and solid waste can be managed by either a Decompose or Waste Away system.

The Decompose system for vegetated environments allows native invertebrates to break down solid waste. The Waste Away system for rocky, desert, or alpine sites collects solid waste in containers. Both systems require eventual removal of solid waste.



Decompose - Rocky Flats Campground, WA



Waste Away - Zion National Park, UT

DECOMPOSE

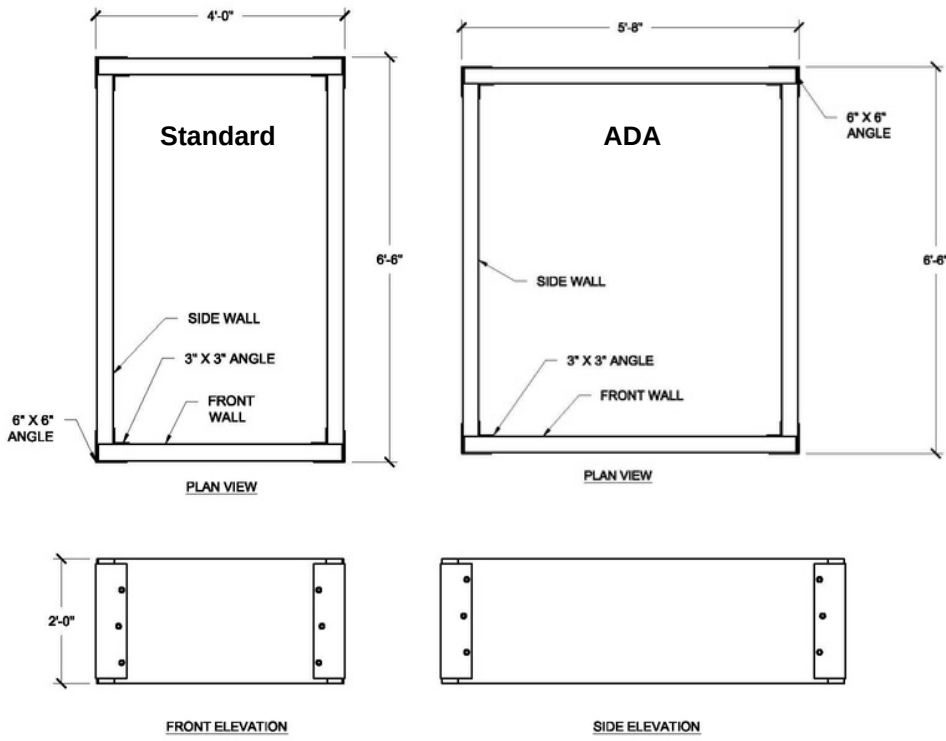
- Soil type:** Some organic soil, not bare rock
- Surrounding vegetation:** Plants other than moss to support invertebrate life
- Number of snow-free months:** At least 3
- Annual visitors:** Less than 30,000

WASTE AWAY

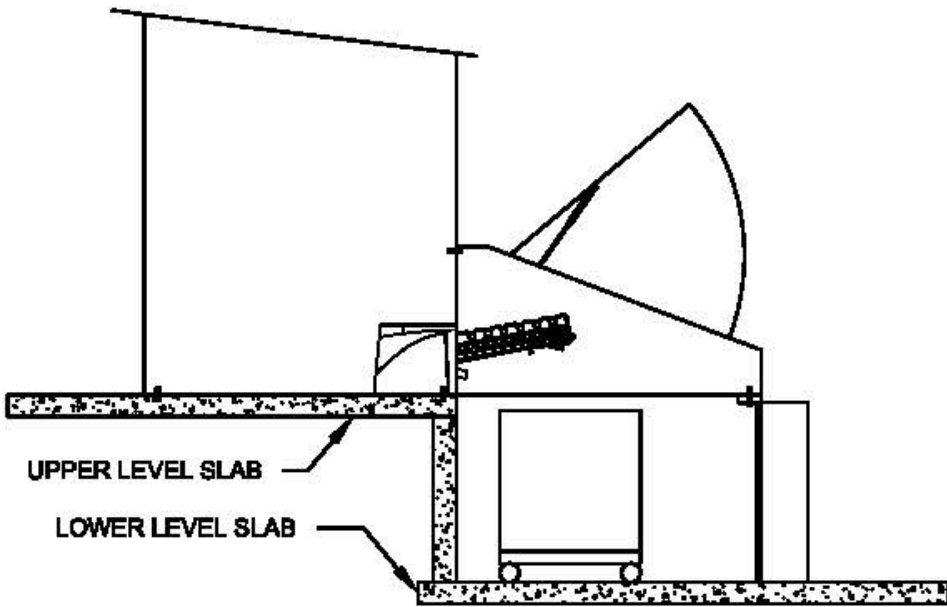
- Soil type:** Only bare rock, limited soil
- Surrounding vegetation:** Only moss and lichen on rocks. Soil has insufficient invertebrate life
- Number of snow-free months:** Less than 3
- Annual visitors:** 30,000 or more

DECOMPOSE

Decompose Vault:



WASTE AWAY



DECOMPOSE VAULT



Terwilliger Hot Springs, OR

The Decompose system collects solid waste in the Decompose Vault (DCV). The DCV is installed below ground or at grade, and serves as the foundation for the toilet structure as well as an area for solid waste decomposition. The DCV is made of fiberglass reinforced plastic (FRP) and is prefabricated at Toilet Tech's shop in Seattle. Each section is light enough to be handled by a single person and is pre-drilled for easy assembly on site. The DCV is designed to last many decades, even in harsh environments.

Benefits: Lowest waste volume; onsite storage capacity of 10-20 years; pre-fab; lightweight; durable, 50+ year life

Drawbacks: Requires excavation 2-4' into soil

Site suitability: Forests, campgrounds, sub-alpine, remote parking lots, some frontcountry sites



Terwilliger Hot Springs, OR

WASTE AWAY VAULT



Zion National Park, UT

The Waste Away system collects solid waste directly into structural bags or bins for hassle-free removal. Operators report a 75-80% reduction in waste volume and hauling costs as compared to the previous system of mixed waste collection in fly-out drums. Waste can be collected in bags small enough for llamas to carry (Rocky National Park) or in large 1 cubic yard stiff sided haul sacks (Zion National Park). A single large tote bag can capture the waste of up to 10,000 toilet users.

Benefits: Safe, easy, no-touch waste storage and removal

Drawbacks: Needs a slab & retaining wall; decomposition does not occur

Site suitability: Remote backcountry, high alpine, extreme desert



Zion National Park, UT