

SV Composter™

Municipal Solid Waste Composting

CUSTOMER PROFILE

West Yellowstone/Hebgen Basin Solid Waste District



CLIENT NEEDS

The District issued an RFP seeking a single vendor to provide a turn-key MSW composting facility that would:

- Process up to 40 tons/day of MSW waste per year in a snowy and cold winter climate;
- Require few operational staff and a small and footprint; and,
- Provide in-vessel composting of mechanically sorted MSW.

THE SOLUTION

ECS' teamed up with Montana based, DA Construction, to build an enclosed compost facility featuring an in-vessel "tunnel" composting system: the SV Composter™.

Pre-Processing: A wet mill homogenizes the floor sorted MSW, mechanically reducing paper and other feedstocks without shredding or grinding. The wet mill includes a coarse trommel screen section that removes 3"+ physical contaminants. Fines passing through the screen are conveyed to a heavy-duty mixer that blends them with biosolids and bulking agents.

SV Composter™: Primary composting takes place in seven low-headspace vessels that feature a sophisticated aeration design and the CompTroller™ automated process control system. These concrete and stainless steel vessels can hold up-to 175 yd³ each. The raw mixes is moved from the mixer and piled in the vessels with a specialized conveyor system. This vessel loading system reduces labor, uses vessel space more efficiently, and minimizes worker exposure to feedstocks.

Product Curing and Refining: An ECS Aeration Control and Monitoring System provides for an ASP curing process following primary composting in-vessel. After product curing, front-end loaders move the compost to the product refining area. In-feed hoppers evenly metered the product over a vibrating screen and then to an air-classification de-stoner to remove physical contaminants in preparation for markets. The compost will be used for landscaping public and private projects within the West Yellowstone/Hebgen Basin Solid Waste District.

