

Halifax Mechanical Biological Treatment (MBT) Facility

Halifax, NS - Canada

When the City of Halifax was looking to site their new landfill in the 1990s, one of the requirements set forth was that there could be no un-stabilized organic waste going into the landfill to maximize landfill space and minimize odors and seagull attraction. Therefore the City included as part of the overall Otter Creek facility design, a **MBT processing facility using BDP's agitated bay technology** to properly stabilize and volume reduce the waste being sent to landfill. The incoming municipal solid waste (MSW) starts by going thru a Materials Recovery Facility (MRF) to separate recyclables such as cans, bottles and cardboard. The remaining waste stream is predominantly inorganic but can still contain organics such as food waste and soiled diapers. Prior to this waste stream being disposed of in landfill, it is composted for up to 28 days in agitated bays. This application is the most demanding facility BDP agitators operate in. The material can be very hard and very abrasive including stones, glass and metals. The MBT facility incorporates fourteen 10 feet wide x 250 feet long bays served by three 75 HP BDP agitators to process @ 200 WTPD of municipal solid waste residuals from Halifax. The facility operates 7 days per week 8 hours per day and the MBT portion utilizes 3 full time workers. Ambient temperatures at the facility range from 0F to 90F. A traditional wood chip type biofilter is used for odor control.



Waste in Front of Bay at Beginning of MBT Process



MBT Facility north of the 190 acre landfill site.

Compost Material	@ 70,000 WTPY MSW residuals
Key Characteristics	Predominantly highly abrasive and dense materials.
Facility Start Up	June 1998
Total Facility Size	@ 5 acres
Facility Engineer	Porter Dillon – Halifax, NS
Plant Contact	Steve Copp – Mirror NS (Facility Contract Operator)
BDP Contact	Rich Nicoletti – Compost Systems Manager



BDP Agitator at Front of Bays