

Compost in Reclamation

Regional Municipality of Wood Buffalo

By:

Tracey Boutilier

Supervisor, Waste Process

Tracey.Boutilier@rmwb.ca

Solid.waste@rmwb.ca



Composting in the RMWB

Leaf and Yard Waste

Seasonal Curbside Collection

Process roughly 7,000 metric tonnes a year

Municipal Biosolids

In-vessel composting system at Waste Water Treatment Plant

Curing of stable biosolids at RMWB Landfill

Process roughly 25,000 metric tonnes a year, producing about 18,000 metric tonnes of compost (soil amendment).

Biosolid Composting Process

Video

<https://youtu.be/Uk3tZf4C6DQ>

Compost in Reclamation

Benefits of Compost

✎ Obvious Benefits:

- ✎ Enriches soils, help retain moisture and suppress plant diseases and pests.
- ✎ Reduces the need for chemical fertilizers.
- ✎ Encourages the production of beneficial bacteria and fungi that break down organic matter to create humus.
- ✎ Replaces trace minerals and
- ✎ Reduces soil erosion.

✎ Not so Obvious:

- ✎ Reduces methane emissions from landfills and lowers your carbon footprint and
- ✎ Helps soils hold or sequester carbon dioxide.

Compost in Reclamation

Where in the RMWB?

- ✦ Fort MacKay Landfill Closure
- ✦ Janvier Landfill Closure
- ✦ Conklin Landfill Closure
- ✦ Old Fort McMurray Landfill
- ✦ New Cell Construction at the RMWB Landfill
- ✦ Rehabilitation of the Fire Break boundary around RMWB
- ✦ Reclamation of the Fire Smart program
- ✦ New Constructions around the RMWB

Compost in Reclamation Regulations

Compost in Alberta is governed by 2 regulations:

- Tier 1 Soil and Groundwater Remediation Guidelines and
- Canadian Fertilizers Act and Regulations

Federal Regulations:

To make things more simplistic, the two above regulations were combined into one federally regulated guideline.

- CCME Guidelines for Compost Quality in Canada. (Canadian Compost Quality Alliance).

Compost in Reclamation Regulations

Two categories for compost

Category A: No restricted use

Category B: Restricted use (not to be used on vegetable gardens).