

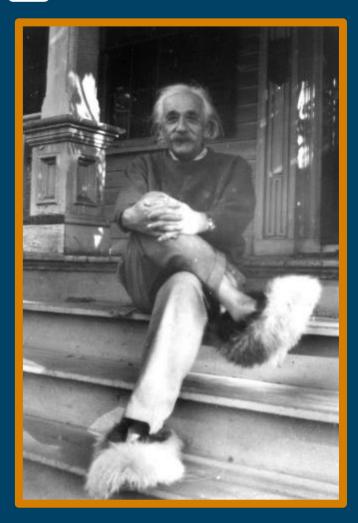
### **COMPOSTING IN WINTER**



#### **ISSUES AND OPTIONS**

complex world CLEAR SOLUTIONS™

### TETRA TECH



I have reached an age when if someone tells me to wear socks, I don't have to.

Albert Einstein



## CAN YOU COMPOST IN WINTER?

- Why not?
- What's stopping you?



## Winter Impact on Limiting Factors

- Bulk density typically lower
- Moisture content typically drier
- PFRP temperatures ambient temperature influence
- C/N Ratio can be lower nitrogen content



### **Mass Bed**

- Similar issues as windrow
- Large beds retain heat











### **Aerated Static Piles**

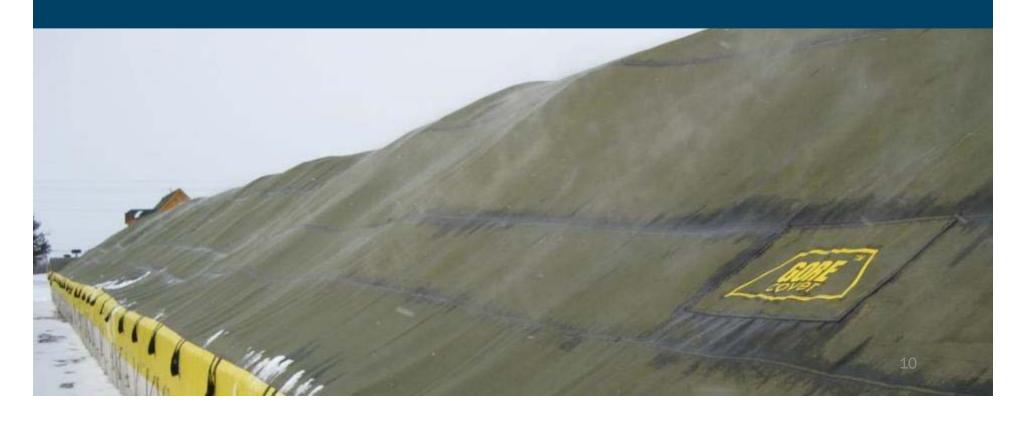








## Membrane Covered Aerated Windrows Winter Options





## **GETTING OUT OF THE COLD**



## Winter Screening

- Starting Engines
- Hydraulics
- Belts and rollers
- Compost freezes to screens
- Colder it is harder it is
- @ -30 don't bother











## Iqaluit Example





# City of Whitehorse Example

- 20 Years
- SSO
  - Residential
  - ICI
- ASP
- Year Round
- 1 yr to produce
- High Quality
- Bagging plant
- \$30 \$40 per tonne market value



### **Feedstock**













## **Aeration**



### **Curing, Screening, and Bagging**







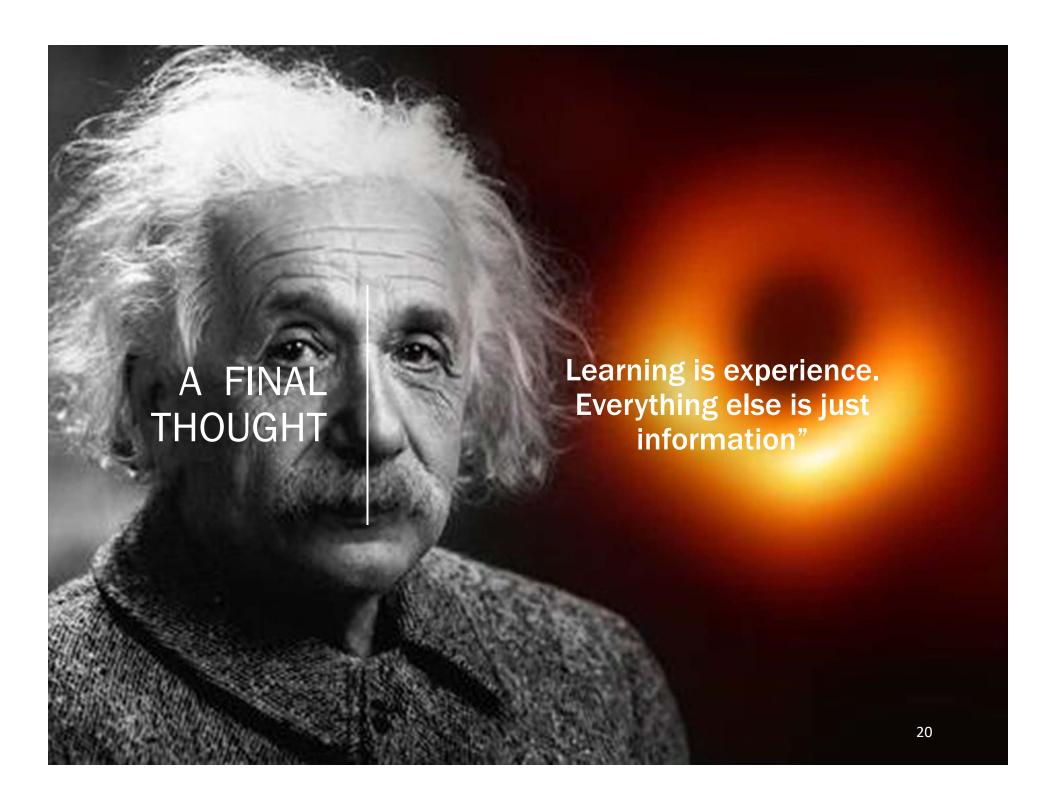














### **COMPOSTING IN WINTER**



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