Solid Waste Presentation

To

The Nunavut Water Board

Introduction:

A. Location

- Slide of city with all old and new dumps and landfills highlighted
- Slide of existing landfill showing: active cell, metals site, hazardous waste storage, Lechate controls, new cell with composting pad

B. Waste Volumes

- Size of waste stream – waste audit slide (Trow)
- Conversion of waste audit to city wide totals including sludge production
- Slide of anticipated sludge production (Earth Tech)
- Slide of existing landfill showing pyramid now
- Graphic/slide of volume new pyramid in ten years at current population

Body:

A. Composting: An alternative to the Big Bag/Big Hole Mentality

- What is composting: slides showing two methods anaerobic and aerobic c/w advantages/disadvantages

B. History of Composting

- Efficiency development money from EcoAction. Slide of logo
- Slide of funding sources and participants showing community support
- Show slides of final home diversion method

C. What we need to deal with and how it's done in the south

- Slide of compostable volumes - pie chart and potential volume percentages if all organics are diverted for composting
- Slides of various composting methods and required equipment to compost in the South
- Slide on "economy of scale"

D. Benefits

- Health & Safety: **a.** Bird Strikes with aircraft supply copies of Federal Guidelines on landfill proximity to runways. **b**. Disease potential for city workers in collection trucks, in garbage rooms and at the landfill for scavengers as well as workers
- Environment: **a.** Greenhouse gas production anticipated at Iqaluit landfill as per one ton challenge**. b**. Lechate production in landfills: slide showing volume reduction of organic waste by evaporation.

- Economic: **a**. cost of new landfill with a connection to the price per ton for disposal. **b**. Show slide of volume reduced by composting over the next ten years.
- Show community landscape improvement potential. Various slides showing what is and what could be.
- Show list and slides of potential beneficial outcomes resulting from a city wide composting initiative.

E. Actual Costs

- Home diversion: **a.** cost per household for collection bins x 2400 households **b**. public education requirement
- Collection: **a**. slide of existing collection costs for labor and truck (2005 budget item **b**. breakdown of existing collection expenses to demonstrate existing true costs to landfill organic waste, a local resource. In other words what we are spending every year for no benefit/return
- The Arctic Advantage: slides on weather data and the impact of subzero temperatures on labor costs for home diversion, collection and municipal composting/storage.
- Graphic of required equipment and machinery options for a southern composting facility. Lay out expense sheet for complete facility identifying overlap with existing costs for existing heavy equipment, bird protection and new equipment.
- Slide of "Coverall" building to connect municipal food waste composting with the biosolids from the WWTP
- Graphic of all costs required to proceed with gradual implementation through increments utilizing public education, volunteers and various funding agencies.
- List of external funding sources for municipalities and non-profit societies with a description of their contribution.

Conclusion

- Summery of benefits and costs
- Summary of community support and Civic Pride

End