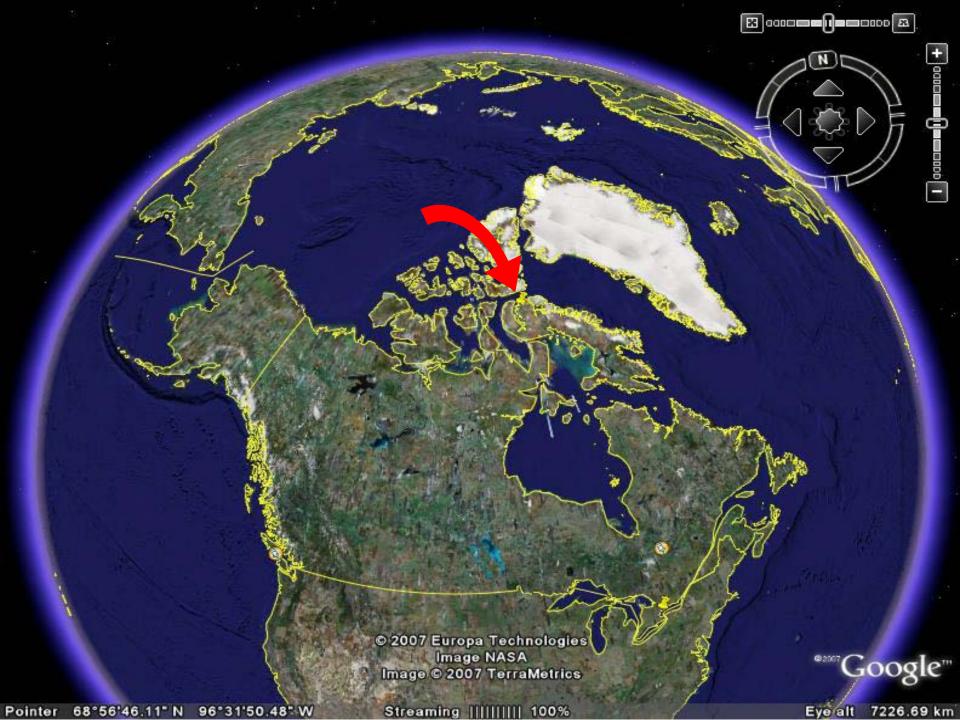




## Nanisivik Reclamation Update

October 15, 2007





















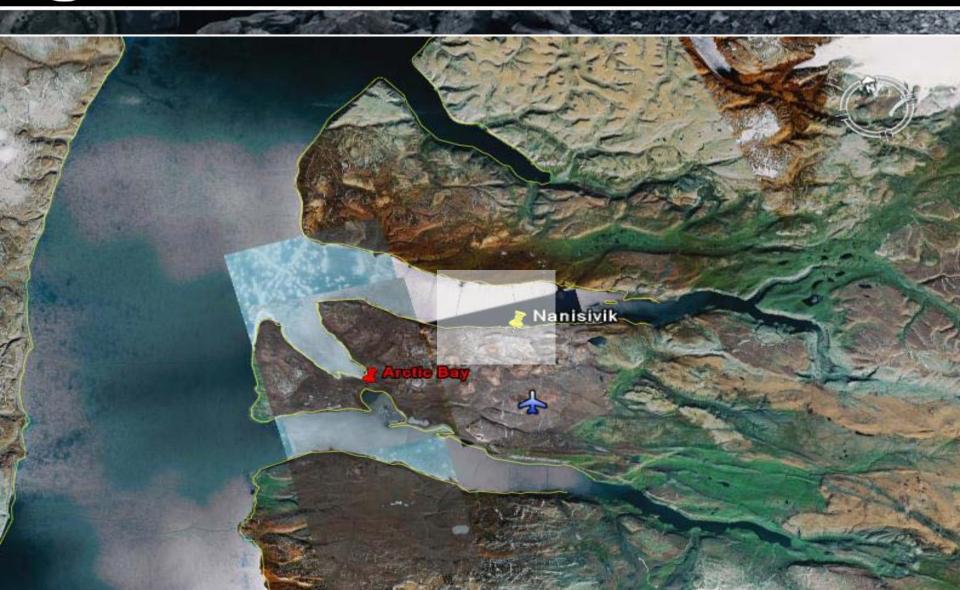










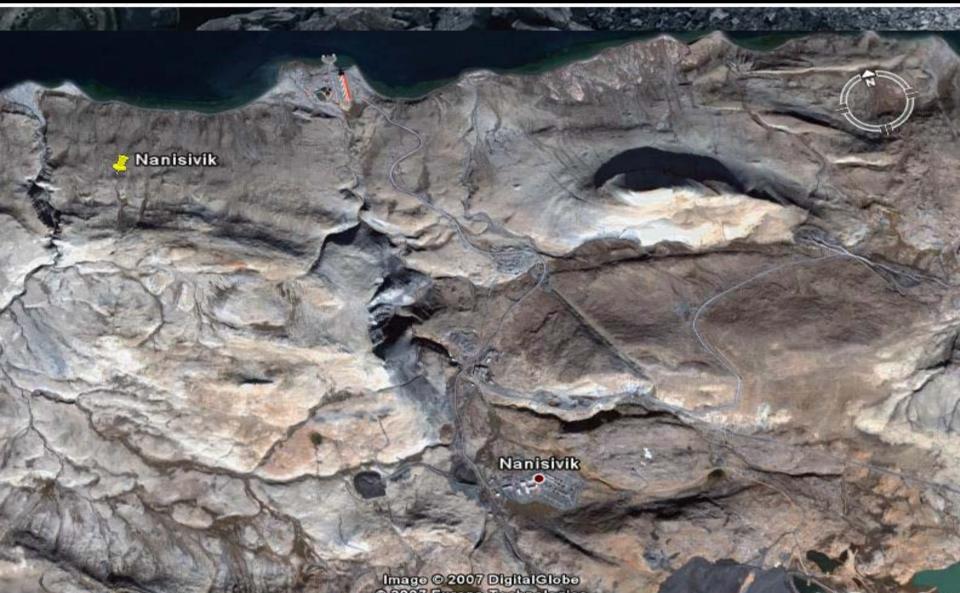




















- Began operations in 1976
- Canada first mine north of the Arctic Circle
- Operated successfully for 26 years
- Produced zinc and lead concentrate
- Mined approx 18 million tonnes of ore (vs 6.3 million tonnes in the feasibility study)
- Total capital estimated at \$61 million
- Current owner of the mine, CanZinco, since 1999
- In 2000 mine plan anticipated 2004/5
- In 2001 re-evaluation due to long term forecast of depressed metal prices
  - Nanisivik announced early closure and produced the last tonne of ore in Oct 2002









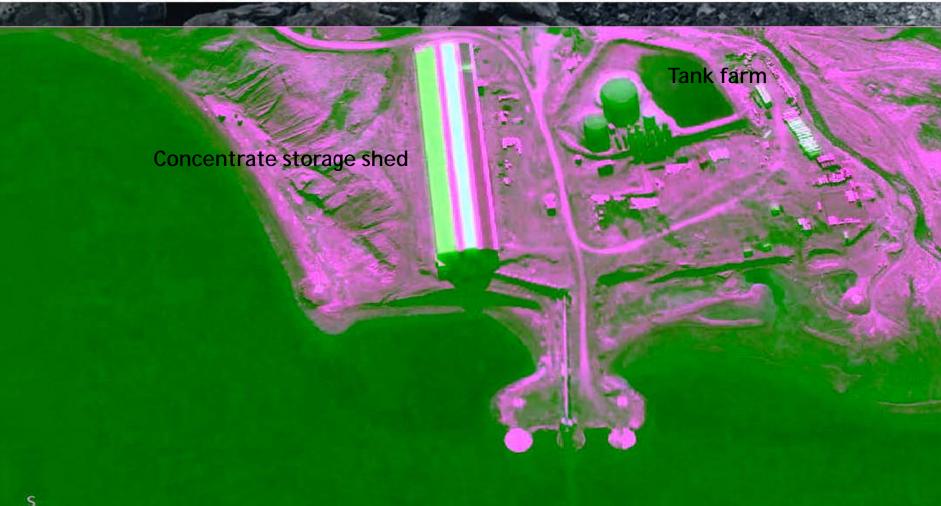
## **INFRASTRUCTURE**

















Industrial complex

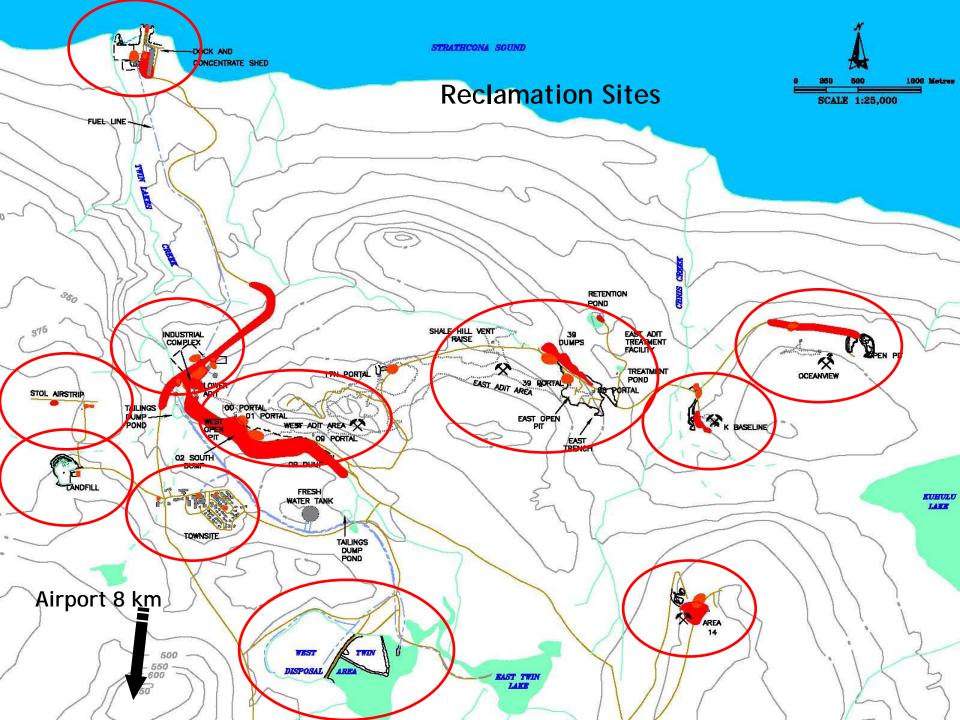




















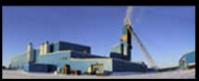
## **RECLAMATION ACTIVITIES**

2002 - 2007









# Reclamation and Closure Key Dates

- September 30, 2002:
  - ⋆Production stops
  - ⋆ "Care and maintenance" discussions continue GN
- July 26, 2004:
  - **♦Final decisions:** 
    - **★1) GN Cabinet decision not to use site or infrastructure**
  - **★2) NWB approves Reclamation and Closure Plan (permission to proceed)**













Breakwater Resources Ltd.

tailings





28 metres



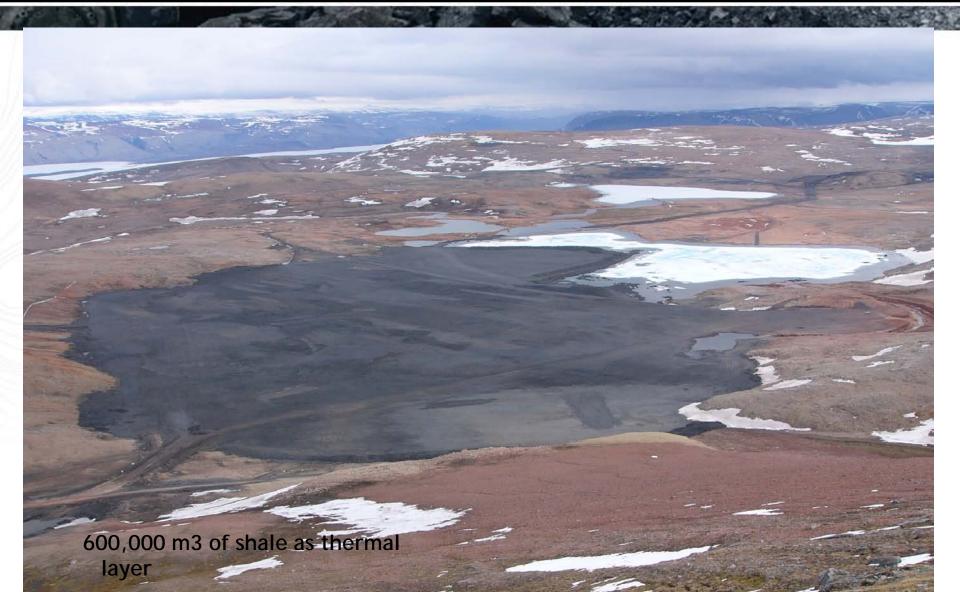
¥ WTL gravel	Ma	1 0.30 metres	
um observed thaw 0.72 m	ximum thaw 0.92 m	Design 1:25 m  O.95 metres	









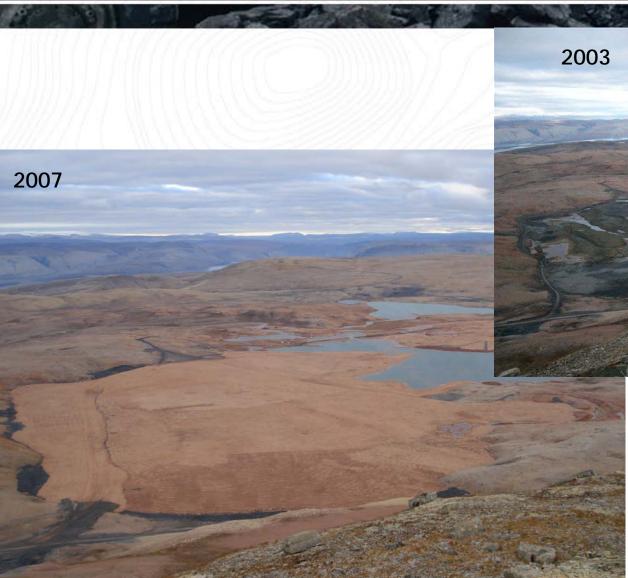












125,000 m3 of armour































## East Open Pit - pre-remediation













East Open Pit during covering - using 60 tonnes trucks







































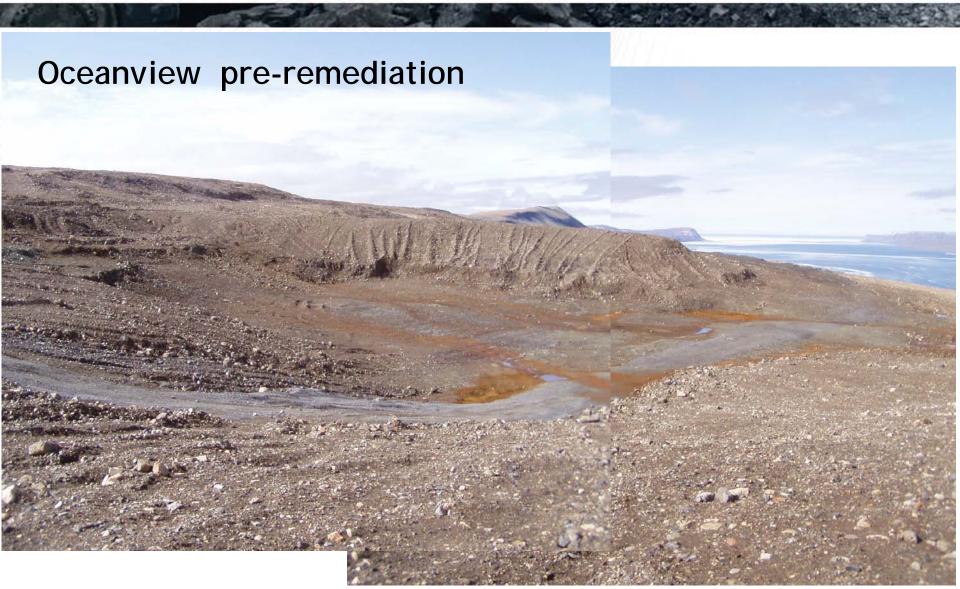




















## Oceanview - 45,000 m3 shale and armour





















## Landfill – thermal cover being applied

















#### **Contaminated Soil Targets**

- HHERA determined no risk from metals but company committed to cleaning up "hotspots"
- Hydrocarbon soils were cleaned to CCME
- Soil volumes range between 1,000 and 36,000 m<sup>3</sup>
- Total estimated volume of 170,000 m<sup>3</sup>











## Concentrate shed being dismantled

(size of two football fields)









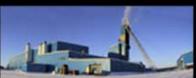






















#### **Dock site**











## **Industrial complex**

- Assets purchased by Wolfden
- Equipment/inventory salvage
- PCBs shipped
- Nuclear density gauges shipped
- Non-hazmats disposed underground
- Infrastructure dismantled
- ~ 75,000 m<sup>3</sup> of contaminated soil (metals, HC) excavated
- Foundation backfilled thermal cover
- Residual soils in 2008































### Town centre (gov't owned)

being demolished

























## BREAKWATER RESOURCES LTD. Doing the Right Things Right

"After 27 years of operation, the Nanisivik mine closed in 2002. Canada's first mine north of the Arctic Circle, Nanisivik was a remarkably successful endeavour from which other northern operations have learned a great deal. Final closure and reclamation activities are being carried out this year."



#### **Mining Association of Canada**

Annual Report 2006 www.mining.ca