

# Fact Sheet Noranda Recycling



## Noranda Recycling - Brampton Facility

Noranda's newest state-of-the-art electronics recycling operation, the only one of its kind in Canada, is located in an 82,200 square-foot industrial facility in Brampton, Ontario, approximately 30km northwest of the city of Toronto. The new facility has been operational since fall 2003.

LOCATION: **Brampton, Ontario**

NUMBER OF EMPLOYEES: **15**

ANNUAL CAPACITY: **35 million pounds**

## END-OF-LIFE ELECTRONIC FACTS

*The challenges of disposal and recovery of electronic materials are significant.*

- In 2003, it was estimated that the number of personal computers (PC's) that became obsolete exceeded the number of PC's shipped in the US by 10 million units
- In Canada, the volumes of end-of-life electronics are expected to double from 36,000 metric tonnes in 1999 to 71,500 metric tonnes in 2005
- According to US-based National Safety Council, only 11% of all computers in North America are recycled today. The rest are either stored, landfilled or exported
- Between 50-80% of all end-of-life electronics are shipped to Asia where environmental and technological capabilities to recycle them are limited
- In December 2004, the Minister of the Environment in Ontario designated waste electronics to the Waste Diversion Act. Manufacturers must now develop a program to manage the full life cycle of their products in Ontario
- Similar regulations have been developed in the EU and Japan and are being considered in many provinces in Canada and states in the USA



## RECYCLABLE ELECTRONIC COMPONENTS

Electronics recycled at *Noranda Recycling* come from many sources across Canada including electronic equipment manufacturers, businesses, governments and municipalities. The Brampton facility can process approximately three million pounds a month of end-of life electronics and **100%** of all electronic hardware is recycled.

### COMPUTERS & PERIPHERALS

- |                    |                  |
|--------------------|------------------|
| - Network hardware | - CD ROMs        |
| - Tape drives      | - DVD ROMs       |
| - Disk drives      | - Monitors       |
| - Modems           | - Circuit boards |

### OFFICE EQUIPMENT

- |                         |                       |
|-------------------------|-----------------------|
| - Copiers               | - Typewriters         |
| - Mainframes            | - VCRs                |
| - Workstations          | - DVD players/writers |
| - Cellular phones       | - Telephones          |
| - Calculators           | - Fax machines        |
| - Audio/video equipment | - Wireless devices    |
| - Video recorders       | - Printers            |
| - Pagers                | - Plotters            |

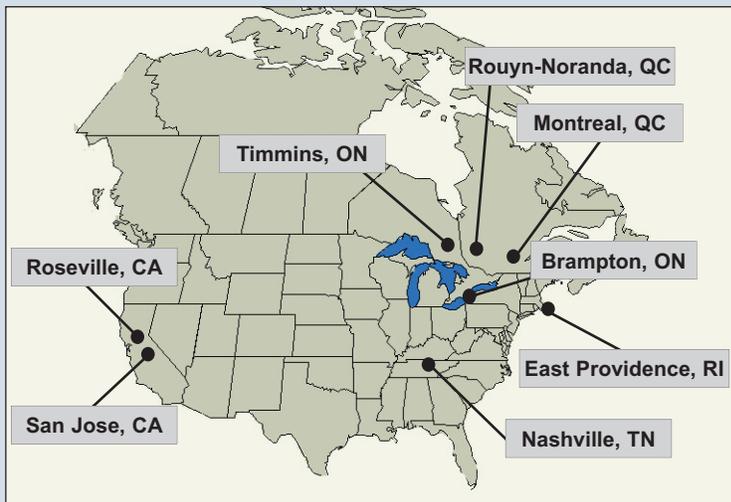


# NORANDA'S RECYCLING BUSINESS

With over 50 years of experience in the recycling industry, *Noranda* is one of the world's largest recyclers of electronics and a major recycler of secondary copper, nickel, gold, silver, platinum, palladium and lead.

*Noranda* takes product stewardship and sustainable development seriously and has integrated these philosophies into a successful recycling business that offers unique growth potential and environmental benefits. Recycling enhances the viability of *Noranda's* existing metallurgical assets and is fundamental to the safe use of metals.

*Noranda* is committed to growing its recycling business and will continue to invest resources to remain on the leading edge of this industry.



## ENVIRONMENTAL BENEFITS OF METALS RECYCLING

- Higher relative value
- Conservation of valuable resources
- Reduce waste disposal
  - Recyclable < 0.3%
  - Concentrate > 30%
- Lower slag generation and metal losses
- Less energy consumed
- Less land disruption
- Lower sulphur content

## HEWLETT-PACKARD & NORANDA RECYCLING PARTNERSHIP

In 1996, HP selected *Noranda Recycling* (formerly Micro Metallics Corporation), a wholly-owned subsidiary of *Noranda Inc.*, to develop a one-of-a-kind process that evaluates incoming equipment, redeploys working equipment, extracts parts that can be re-used and recycles remaining products and components.

Together, HP and *Noranda* manage and operate two state-of-the-art facilities where this recycling process takes place. The facilities, located in Roseville, California and Lavergne, Tennessee, process up to two million pounds a month of end-of-life equipment from HP and other corporate customers' facilities.

*Noranda* is proud of its partnership with HP and it is committed to helping all of its customers in meeting their product stewardship responsibilities.



## KEY RECYCLING FACTS

- *Noranda* is one of the world's largest recyclers of end-of-life electronics
- *Noranda* has been recycling metal for more than 50 years
- *Noranda's* Horne smelter is the largest and most advanced copper and precious metals recycling plant in North America
- *Noranda* processes between 70,000 and 150,000 metric tonnes of recyclable raw materials annually
- *Noranda* currently sources 70 percent of its recyclable materials from the United States

## At Noranda Recycling, Environmentally Sound Management (ESM) means:

- All material is 100% recycled
- Nothing is sent to landfill
- Nothing is exported unless it is to an ESM facility
- Having comprehensive Environment, Health and Safety practices
- Ensuring full downstream accountability
- Possessing comprehensive Industrial Hygiene Control
- Fully permitted

*Noranda Recycling Brampton* has undertaken the rigorous ISO 14001 certification process for its environmental management systems. ISO 14001 certification is pending.

FOR FURTHER  
INFORMATION,  
PLEASE CONTACT:

[www.noranda.com](http://www.noranda.com)

**Cindy Thomas**  
Brampton Plant Manager

275 Steelwell Road  
Brampton, Ontario  
Canada L6T 5P3

Tel: 905-874-6835  
Fax: 905-874-1857

Email: [cindy.thomas@toronto.norfalc.com](mailto:cindy.thomas@toronto.norfalc.com)

**Steve Skurnac**  
President, *Noranda Recycling*

1695 Monterey Highway  
San Jose, California  
USA 95112

Tel: 408-998-4930 ext. 214  
Fax: 408-998-5033

Email: [steve.skurnac@norandarecycling.com](mailto:steve.skurnac@norandarecycling.com)