

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 |

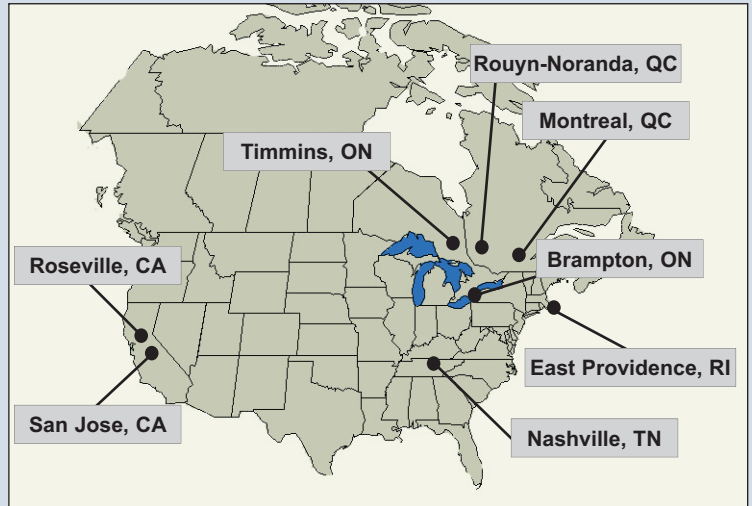


NORANDA'S RECYCLING BUSINESS

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:

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