

## **Background on Global Electric & Electronic Processing (GEEP) Inc.**

- Edmonton's e-waste facility is built and operated by GEEP Alberta Inc – a subsidiary of GEEP Inc, an international e-waste recycler based in Barrie Ontario.
- Edmonton's facility is the first to be built by GEEP Inc in western Canada.
- The facility is wholly owned by GEEP Inc. The City of Edmonton has an agreement with GEEP Inc to process all e-waste collected by the City.
- GEEP is a registered processor under Alberta's electronics program which is administered by Alberta Recycling Management Authority. Edmonton's Eco Stations are registered collection sites and the City of Edmonton receives funding support from Alberta Recycling for eligible materials collected.

### **Plant facts**

- The total cost of the facility: \$10 million
- Size: 45,000 square feet
- Capacity: Monitors 12,000 tons/ year, computers and other electronics and electrical waste 18,000 tons/ year
- Anticipated 1<sup>st</sup> year volume: 8,000 tons
- Number of employees: 35

### **About GEEP Inc.**

- GEEP Inc. (Canada) is located in Barrie, Ontario. GEEP Inc is a division of the Barrie Metals Group of Companies with a sister location in Durham, NC.
- GEEP's mission is to work collaboratively with clients to maximize their return on excess and end of life inventory in an environmentally safe manner with a zero landfill objective.
- GEEP's clientele include major corporations such as Nortel Networks, Bell Canada, Dell and Sony.
- In February, 2006, the Barrie Metals Group of Companies was named one of Canada's 50 Best Managed Companies.

### **The Recycling Process**

- Examples of equipment at the Edmonton GEEP facility:
  - Centrifugal Separation
  - Plastics Shredder
  - CRT Processing
  - Chain Shredder
  - De-Reeler
  - Baler

## **Background on Global Electric & Electronic Processing (GEEP) Inc. (continued)**

- A variety of modern mechanical processes is used to dismantle, shred and separate components. The metals, plastics and glass will be marketed locally and abroad.
- GEEP has introduced break-through technology that will substantially change the e-waste recycling industry. Non-disassembled electric and electronic products are broken apart by a heavy-duty crusher. Coarse ferrous and non-ferrous parts are taken out automatically.
- Additional hand-picking stations sort out valuable fractions like motors, transformers, stainless steel parts and circuit boards. Many of these electronic products contain mixed plastics.
- These plastics are separated for recycling and for testing in a pilot process at the Barrie, Ontario location to produce a synthetic diesel. The Edmonton Waste Management Centre would be a prime candidate for an operating facility when piloting of this process is complete.
- CRT monitors are also recycled in a separate processing line.

### **What can be recycled at GEEP?**

- small kitchen appliances
- audio and video equipment and televisions
- personal care appliances (hair dryers, shavers, etc.)
- other electrical household tools (vacuums, irons, floor polishers)
- electrical power tools
- telecommunications equipment – telephones, cell phones
- computer and home office equipment
- computer components
- photocopiers, fax machines and similar office electronics
- industrial electrical tools
- specialty equipment containing electrical motors, switches and other components with material value

### **Other materials suitable for processing through the plant to recover metals, plastics or other materials of value, including;**

- electric motors
- electrical wiring
- containers and container caps