

Why Recycle Lamps?

- All fluorescent lamps contain mercury in varying amounts.
- Mercury is an elemental metal, meaning that it doesn't break down in the environment.
- In an Environment Canada fact sheet it is stated that a fluorescent tube with **23** milligrams of mercury can contaminate **30,000** litres of water.

Why Recycle Lamps?

- Mercury compounds can be toxic at low levels in the environment..
- Mercury is a neuro-toxin, it can damage the brain, central nervous system and other vital organs.
- Mercury can vapourize and condense, as in fluorescent lamps.

Regulations

- The Canadian council of ministers (CCME) has implemented a Canada wide standard (CWS) for mercury containing lamps;
- And the Ministry of the Environment has recently passed a decision to adopt the toxicity characteristic Leachate extraction procedure (TCLP).

Regulations

- US EPA method 1311, in respect to **Ontario regulation 347 as amended to Ontario regulation 558**
- Currently it is estimated by the CCME that **1150 kilograms per year of mercury bearing lamps will be discarded in landfill in the year 2000**

- In Canada mercury containing lamps will emit 180 kilograms of mercury vapour to the atmosphere per year according to Environment Canada.
- Mercury from lamp waste is emitted through landfill and incineration in municipal waste.
- Waste lamps whether broken or intact will at some point in the cycle emit mercury vapour.

- The US EPA estimated that in the year 2000
- **Landfill accounted for 82%**
- **Incineration accounted for 16%**
- **Recycling accounted for only 2%**

- Lamp recycling is much more than an alternative to landfilling.
- **Conservation of energy and raw materials.**
- **Which in turn reduces pollution.**

- **ISO 14001 Registrations**

- Environmental Management System, as you may already know the 3 basic tenets of an EMS are:

- **Minimize pollution**

- **Obey the laws**

- **Continuous improvement**

- Your company's environmental performance is constantly being monitored.
- A pro-active approach to waste minimization is by and large one of the most effective ways to communicate.

- Your company is motivated and seeks opportunities to do their part in working towards environmental solutions.
- Directly or indirectly by the public in general and this translates back to the **BOTTOM LINE.**

- The key to recycling any product which is widely dispersed in commerce, such as fluorescent and other mercury containing lamps is to have a program in place that is
 - **Easy**
 - **Convenient**
 - **Cost efficient**



Fluorescent Lamp Recycling Solution

- FLR offers a process that recycles over
- **98% of each lamp**
- Our clients eliminate all possibilities of contaminating their facility and
- Avoid putting their own employees at risk.

Fluorescent Lamp Recycling Solution

- The crushed material is then mechanically and chemically separated into four waste streams
- **Glass**
- **Aluminum end caps and brass**
- **Mercury rich phosphor powder**
- **Mercury**

- Fluorescent Lamp Recyclers Inc. Will work with to co-ordinate the recycling program for each individual company's needs, this includes;
- **Providing collection containers.**
- **Logistics.**
- **Assistance with manifesting.**
- **Tracking your lamp waste.**