The chemical compound used in the fluoridation process in cities such as London and Hamilton is hydrofluorosilicic acid. Hydrofluorosilicic acid and fluoridation chemicals derived from it, is an environmental contaminant contained in the scrubbing solution removed from the smoke stacks of the phosphate industry. This scrubbing solution contains hydrofluorosilicic acid and various other contaminants such as arsenic and lead. This concentrated scrubber solution has become the perfect water fluoridation agent. It is a liquid, easily soluble in water and inexpensive. In effect, fluoridating drinking water with recovered pollution has become a cost-effective means of disposing of this toxic waste. Despite the fact that hydrofluorosilicic acid cannot legally be discharged into our lakes, rivers or streams, elected members of city councils have somehow concluded that municipal drinking water is a safe even with this toxic waste added to it.

The Ontario Safe Drinking Water Act (SDWA) was passed into law as a result of the Walkerton tragedy. This law was intended to ensure safe drinking water for all citizens and unequivocally states that it is forbidden to add any toxic chemicals to municipal drinking water. Cities such as London and Hamilton are knowingly and wilfully violating the SDWA.