

US EPA ARCHIVE DOCUMENT

Great Lakes Binational Toxics Strategy Stakeholder Forum

December 4, 2008
Hyatt Regency O'Hare
Rosemont, Illinois

Dioxins and Furans

Work Group Co-Chairs:

Anita Wong and Dan Roumbanis, Environment Canada

Erin Newman, U.S. EPA

Dioxin/Furan Challenges and Progress

Canadian Challenge Goal

- 90% reduction *
- by 2000

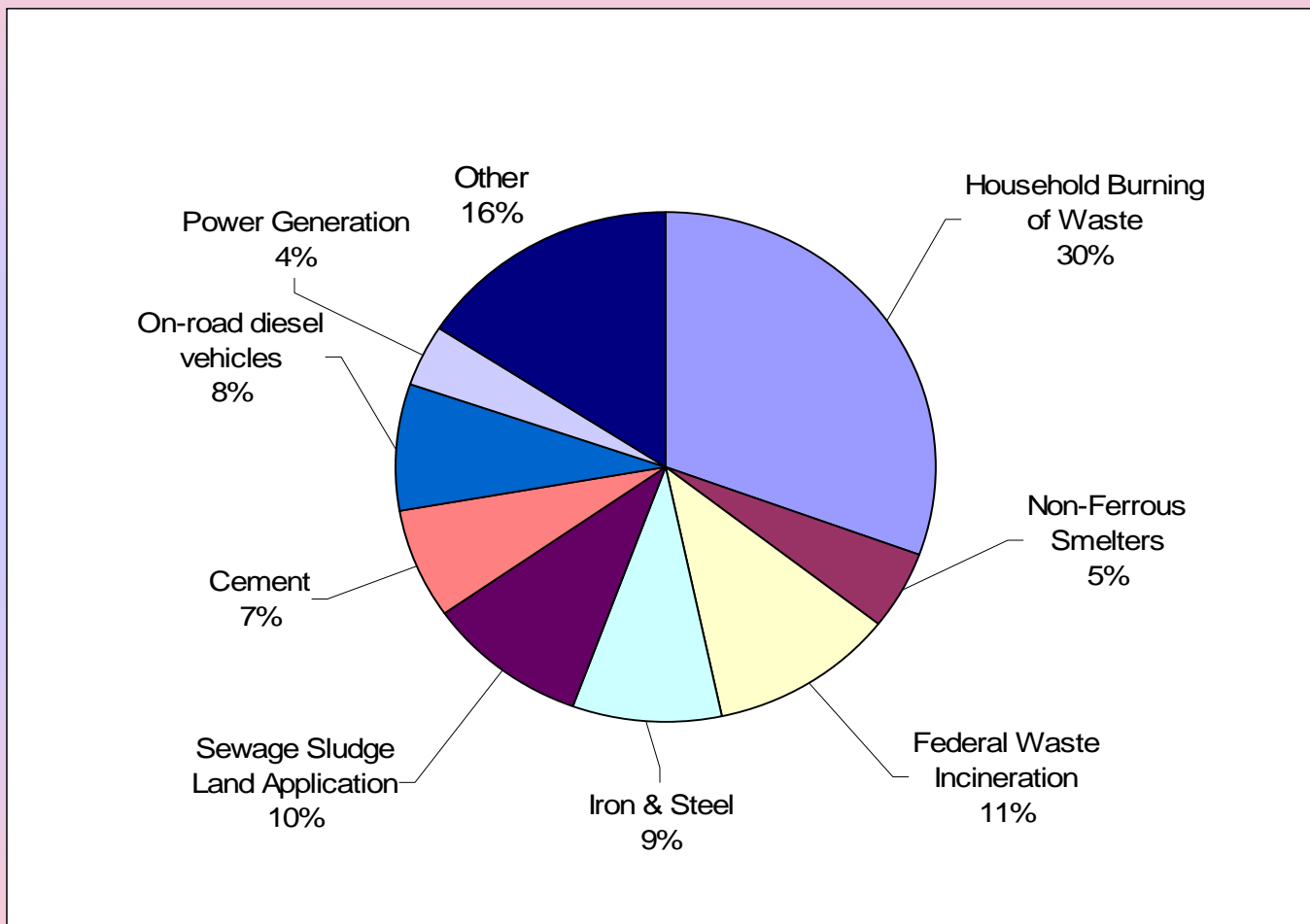
* All media within Great Lakes Basin, base year 1988

- Progress: **89% reduction** in total releases within GL Basin

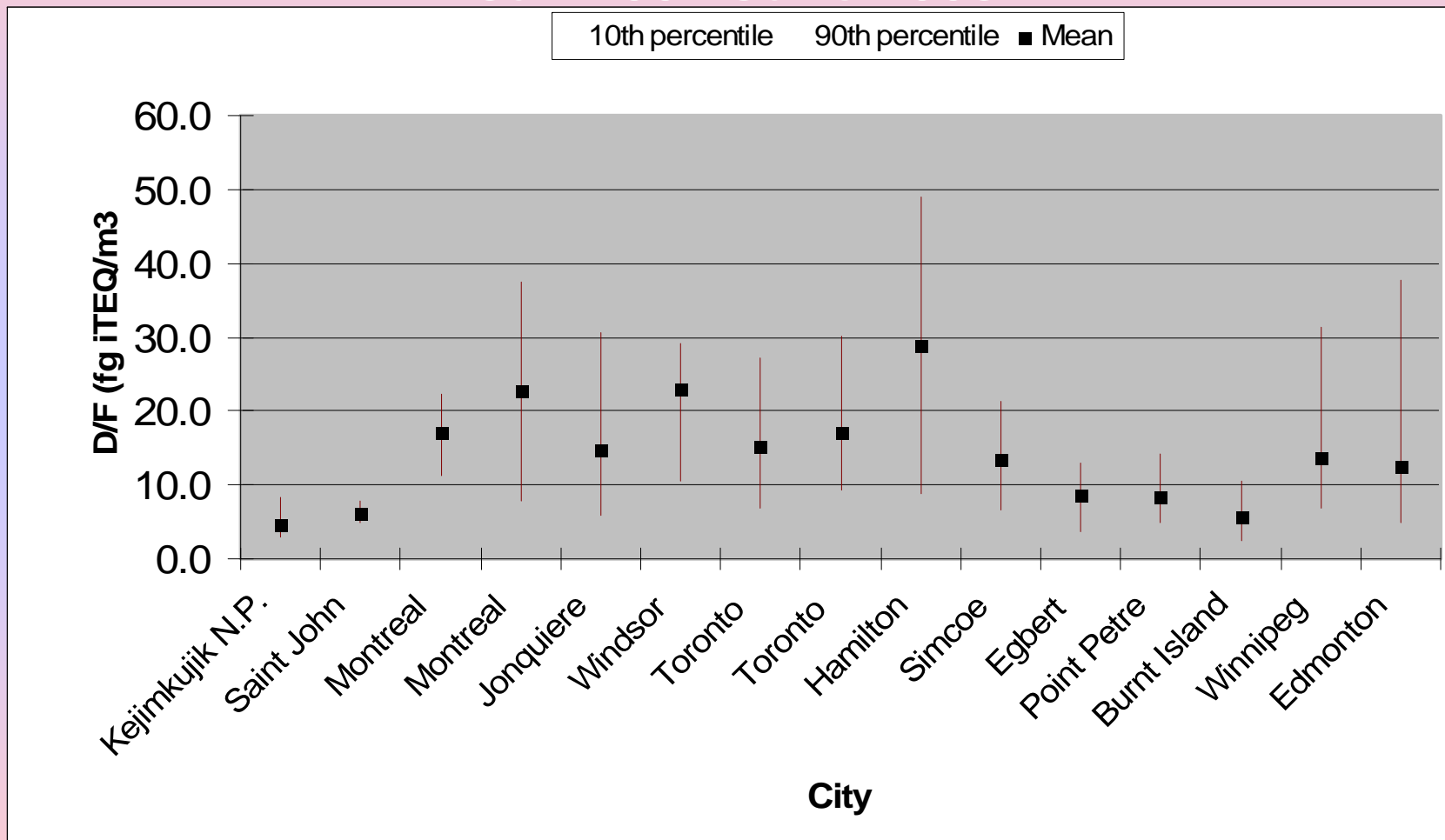
US Challenge Goal

- 75% reduction *
- by 2006
- Aggregate of air releases nationwide and water releases within the Great Lakes Basin, base year 1987
- Progress: Goal has been met
- 2000 emissions ~1,422 grams **89% reduction** from 1987 baseline

Ontario 2006 Dioxin/Furan Release Sources



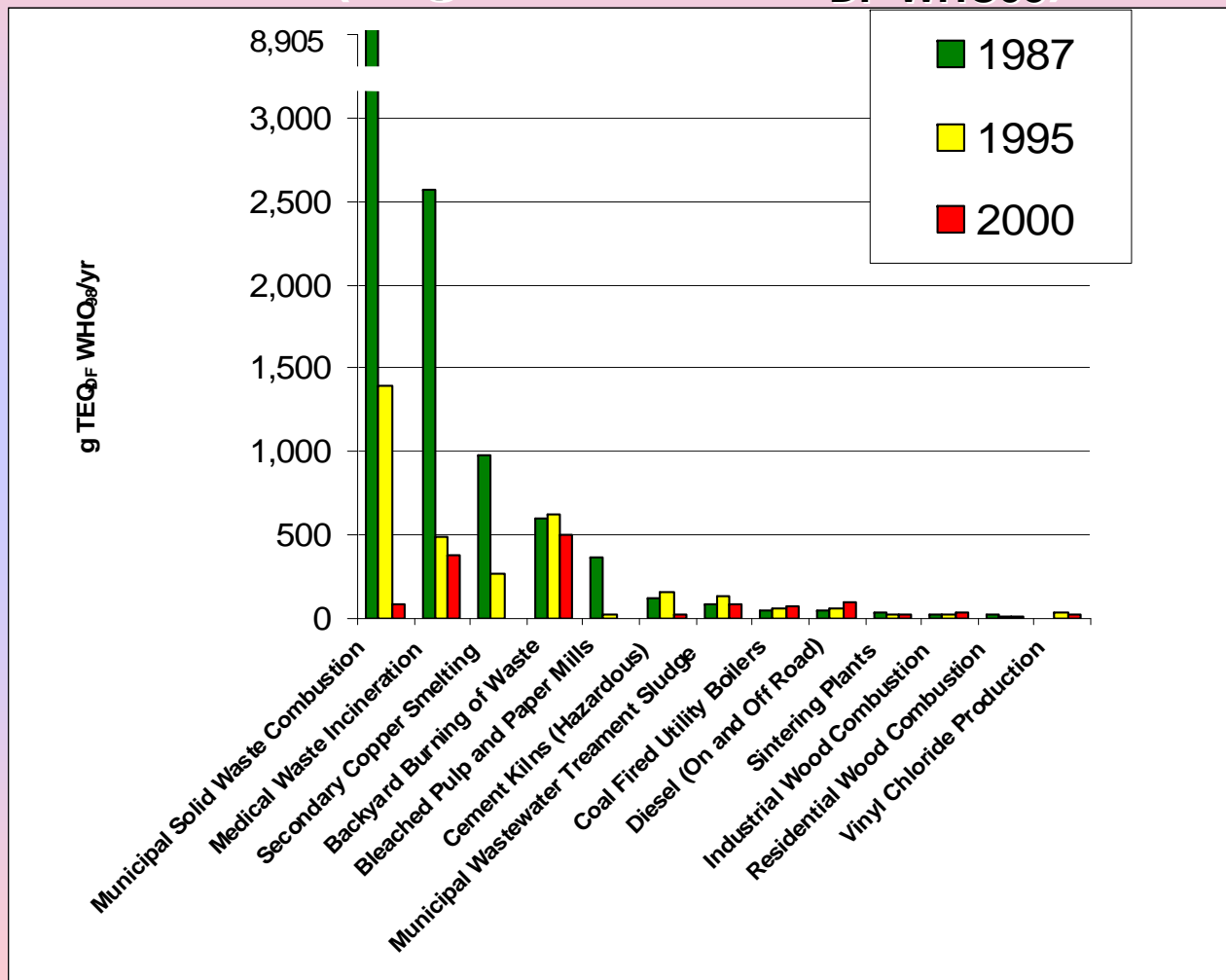
Canadian Ambient Air Concentrations of Dioxin/furan Jan 2007-June 2008



Source: National Air Pollutants Surveillance (NAPS), EC
OMOE AAQC: 5 pg iTEQ/m³

THE GREAT LAKES BINATIONAL TOXICS STRATEGY

Top U.S. Inventoried Dioxin Emissions for 1987, 1995, & 2000 (in grams of TEQ_{DF-WHO98})



Success Stories

- Met challenge goals
- Prioritized sources using the Dioxin Decision Tree Process
- Created the Burn Barrel Subgroup
 - ◆ Reduction programs around the Basin
 - ◆ Websites: <http://www.iisgcp.org/learnnot2burn/>
<http://www.openburning.org/>
- Developed issues papers on sources of uncontrolled combustion
- Characterized sources in several studies
 - ◆ Landfill fires
 - ◆ Ash management
 - ◆ Secondary metal smelting
 - ◆ Combustion residue
- Raised concerns over treated wood and, in response, USWAG developed treated wood guidelines
- Examined joint issues with other GLBTS Workgroups (coplanar PCBs, wood preservation, residential wood combustion, sewage sludge application, clean diesel)

Path Forward

- **Continue Burn Barrel Subgroup activities**
 - ◆ **Met with state and provincial programs to discuss needs and efforts**
 - ◆ **Approved a new Scope of Work (10/08)**
 - ◆ **Continual update of online toolkit**
- **Explore reduction opportunities related to other open waste burning**
- **Track releases and ambient air concentrations**