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Canadian Great Lakes BaP/HCB Progress Update

**GLBTS BaP/HCB Workgroup Meeting
Chicago, Illinois**

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December 12, 2007



Project Updates

- Survey of the use of creosote wood in Ontario
- Source apportionment of polycyclic aromatic hydrocarbons (PAHs) at Ontario sites
- Pesticide uses in Ontario
- Residential Wood Combustion
 - See presentation by Victor Li
- HCB Modeling Project
 - See presentation from Dr. Jianmin Ma



Creosote Wood Use Ontario Survey

- Objective
- Expected Results
- Progress and Timelines



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Creosote Wood Use Ontario Survey - Objective

- Survey the use pattern of creosote treated wood in Ontario
- Use volume, use trend, and environmental issues
- Disposal practice of the out-of-service wood
- Promoting User Guidance Document (UGD), and
- Reduction of creosote and PAH releases and their impacts on the Great Lakes Basin



Creosote Wood Use Ontario Survey – Expected Results

- In-service treated wood volumes
- Current users of creosote wood
- Treated wood service life and depletion rates
- Out-of-service treated wood volumes
- Treated wood disposal practices
- Alternative preservatives
- Best practices for in-service and out-of-service treated wood in Ontario



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Creosote Wood Use Ontario Survey – Progress and Timelines

- Survey questionnaires sent out to major users
- Contractors are working with industry to collect and compile survey data
- Final report by February 2008



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Source apportionment of PAHs at Ontario sites

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Source Apportionment of PAHs at Ontario Sites - Objective

- Apportion the ambient air PAH concentrations directly to its emission sources
- Identify major sources and their contributions
- Identify additional sources of PAHs
- Used to validate the existing emission inventory



Source Apportionment of PAHs at Ontario Sites – Expected Results

- Phase 1: Literature Review and Assessment of Available Data
 - Determine suitable receptor modeling techniques
 - Determine monitoring sites in Ontario
- Phase 2: Receptor Modeling and Results Validation
 - Conduct receptor modeling for the PAH compounds
 - Identify emission sources and their contributions
 - Validate the modeling results



Source Apportionment of PAHs at Ontario Sites – Progress and Timelines

- Carleton University is undertaking this project
- Has reviewed PAH monitoring data from National Air Pollutants Surveillance (NAPS) stations in Ontario
- Has analyzed PAH data for Hamilton and Windsor stations
- Reviewing source profile data to determine suitable receptor models for PAH modeling
- Anticipated to be completed by September 2009



Pesticide uses in Ontario

- Discussion with Pesticide Science Program of EC on pesticide uses in Ontario
- Meeting with Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) on pesticide uses in Ontario
- Obtained residual HCB concentrations in pesticides from Health Canada's Pest Management Review Agency
- Collected atrazine monitoring data for Ontario
- Collected usage data for atrazine and chlorothalonil in Ontario
- Looking into options to promote further reductions (i.e., Integrated Pest Management Program)





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Questions???

