

Olympic Air Pollution Control Authority Air Toxics Emissions Inventory Interim Report

John T. Kelly
Olympic Air Pollution Control Authority
909 Sleater Kinney Rd. SE, Suite #1
Lacey, WA 98503
<mailto:jkelly@oapca.org>

This ongoing project will be completed in June of this year. Currently, data collection and compilation are being conducted. The interim report below summarizes planning and progress efforts for the project to date.

ABSTRACT

With special project funding assistance from [EPA Region 10](#), the Olympic Air Pollution Control Authority ([OAPCA](#)) is conducting a comprehensive air toxics emissions inventory for emission year 2000. The [Washington State Department of Ecology](#) is providing grant administration and technical support. The chief objective of the project is to develop an inventory of emissions from point, area and mobile sources of air toxics. The inventory will provide the basis for future exposure modeling and health risk assessments. The focus of the inventory is point and area sources of the 188 Hazardous Air Pollutants ([HAPs](#)) listed in Title III, Section 112 of the Clean Air Act. Estimates will also be made of emissions of toxic air pollutants ([TAPs](#)) regulated under WAC 173-460 [Controls For New Sources Of Toxic Air Pollutants](#), which are not included on the 112(b) HAP list.

Upon completion of the project, a full report will be made available to EPA Region X and the Washington State Department of Ecology. Data will be reported to EPA for possible inclusion in Version 3 of the 1999 National Emissions Inventory (NEI). Emission inventory data will be managed in a Geographic information System (GIS), and summary results will be posted on OAPCA's website.

INTRODUCTION

The Olympic Air Pollution Control Authority (OAPCA) is one of seven regional air pollution control agencies located in Washington State. The OAPCA region is comprised of Clallam, Grays Harbor, Jefferson, Mason, Pacific, and Thurston counties. The region includes areas of pristine wilderness as well as rapidly growing urban centers. Major industries are Lumber and Wood Products, Fiberglass Reinforced Plastic Products, and Pulp and Paper Production. OAPCA has issued twelve (12) Title V Air Operating Permits (AOPs) to sources within its jurisdiction. Of these, six (6) are major for HAPs.

There is limited data for OAPCA's six-county jurisdiction for source specific air toxics. At this time, questions pertaining to the amounts, locations, and associated health risks of air toxics cannot be answered. This project will begin an extensive commitment by OAPCA to define and develop a more thorough and complete air toxics inventory for the region. Air toxic emission inventory data will be used to determine future modeling and risk project objectives, to identify areas of concern, to determine monitoring site locations, and provide more precise data to Ecology and EPA toxic inventories. Inventory methods for point, area and mobile sources are briefly described below.

METHODOLOGY

Point Sources

Currently OAPCA emission inventory staff collect annual emission inventory data from 57 sources in its six-county jurisdiction. The annual inventory consists of emissions data for both criteria and toxic air pollutants. Six of the twelve [AOP sources](#) are major for HAPS. There are also two major chemical pulp mills within OAPCA's geographic region. Permitting and enforcement for the chemical pulp mills are under the jurisdiction of the Washington State Department of Ecology Industrial Source Section. Emissions data for these sources will be included in the final data set.

Area Sources

Surveys of the following minor source categories currently registered with OAPCA are in progress - Autobody Refinishing, Fiberglass Reinforced Plastic, Furniture and Cabinet Manufacturing, Perchloroethylene Dry Cleaning and Gasoline Marketing. Emission estimates for other source categories will be made using methods derived from EPA's Emissions Inventory Improvement Project (EIIP) series of documents.

Mobile Sources

Estimates of emissions from mobile sources within OAPCA's jurisdiction will be made at the county level. Washington State Department of Ecology will provide [Mobile 6.0](#) results for criteria pollutants to OAPCA. HAP speciation profiles will then be applied to the model results to obtain estimates of emissions of Mobile Source Air Toxics ([MSAT's](#)).

CONCLUSIONS

Upon completion of the project, a full report will be made available to EPA Region X and the Washington State Department of Ecology. Data will be reported to EPA for possible inclusion in Version 3 of the 1999 National Emissions Inventory (NEI) by June 1, 2002. The final data set will be plotted in a geographical information system (GIS) format at the county level. Results will be summarized on OAPCA's website. For further information on this project: <mailto:jkelly@oapca.org>

REFERENCES

EPA. 1995-1996. *Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition and Supplements, AP-42*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

EPA. Emission Inventory Improvement Project ([EIIP](#)) Document Series - Volume II Point Sources <http://www.epa.gov/ttn/chief/eiip/techreport/volume02/index.html>

KEYWORDS

Air Toxics
Department of Ecology
Emission Inventories
Emissions
GIS
HAP
Inventory
OAPCA
Olympic
Washington State
Region 10