

**Delaware
Air Quality
Management**

2006

Air Toxics Strategic Plan

**Year End
Status Report**

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Air Quality Management
2006 Air Toxics Strategic Plan

The Air Toxics Strategic Plan (ATSP) is a five-year plan of activities to be undertaken by Air Quality Management to reduce the risk of adverse health effects caused by the inhalation of air toxics. The 2006 ATSP, finalized on 2/2/06, was organized within the following components.

- **Implement an ongoing program to address the risks from exposure to air toxics**
- **Build greater understanding of ambient air toxics environment**
- **Identify potential harm from exposure to air toxics**
- **Gather information related to air toxics sources**
- **Identify options for reducing air toxics in the environment**
- **Implement appropriate actions to reduce the harm from exposure to air toxics**
- **Evaluate the effectiveness of the actions taken to reduce harm from exposure to air toxics**
- **Enhance AQM Air Toxics Resources**

2006 Air Toxics Strategic Plan – Year end *Summary Status*

• *Implement an ongoing program to address the risks from exposure to air toxics*

Key Accomplishments

- 2005 Air Quality Management (AQM) Air Toxics Strategic Plan – Year-end status report released in February.
- 2006 AQM Air Toxics Strategic Plan identifying needed activities during the 2006 to 2010 period finalized in February.
- 2006 AQM Air Toxics Strategic Plan – Mid-year status report released in August.

Significant 2006 Activities still underway

- Updating of the AQM Air Toxics Strategic Plan for the 2007 through 2011 period continues. (Exp. completion – Feb. 2007)
- Continuing active participation with the NACAA (formerly STAPPA/ALAPCO) air toxics committee. (Ongoing)

Shortfalls

- Action on the recommended establishment of a mobile source program with AQM remains on hold due to lack of funding. (Exp. completion – Unknown)
- Despite temporary loans of other AQM personnel, the Emission Inventory and Area Source Compliance Groups continue short of personnel with some activities being dropped or put on hold. (Exp. completion – Unknown)

• *Build greater understanding of ambient air toxics environment*

Key Accomplishments

- Twelve months of additional air toxics concentrations were obtained in Wilmington [carbonyls, metals and VOCs] and Delaware City [VOCs].
- Final reports were issued in September for two joint AQM and University of Delaware special monitoring projects. One project provided real-time monitoring capability for aerosols including air toxics; the other project provided monitoring techniques that tie monitored result to emission sources.
- A strategic monitoring study was completed in April in Aniline Village area near the Claymont Steel facility.

2006 Air Toxics Strategic Plan – Year end Summary Status

• *Build greater understanding of ambient air toxics environment – Cont.*

Shortfalls

- Continued operation and maintenance of the enhanced time-resolution capabilities of the Perkin-Elmer GC/MS for VOC measurements will require additional funding [\$20,000]. (Exp. completion – Unknown)
- Development of the Delaware Air Toxics Assessment Study (DATAS) Phase II regional-scale modeled concentrations remained on hold pending EPA's release of model-ready 2002 National Emissions Inventory (NEI) emission data. (Exp. completion – 1st Quarter 2007)
- Development of diesel monitoring methodology/capability has been dropped, when the grant application was denied. (Deleted)

• *Identify potential harm from exposure to air toxics*

Key Accomplishments

- Completed development of the DATAS Phase II local-scale modeling of air toxics concentration in June. Those results are ready to be provided to Division of Public Health (DPH) for risk assessments activity.

Shortfalls

- Reconciliation of the DATAS Phase II modeling results with the 2003 monitoring results was delayed pending completion of the regional-scale modeling. (Moved to 2007 Air Toxics Strategic Plan)
- Generation of the DATAS Phase II modeled concentrations for risk assessment by DPH was delayed pending completion of the regional-scale modeling. (Moved to 2007 ATSP)
- Coordination of risk assessment needs and results from the DPH for the DATAS Phase II is on hold pending completion of Phase II modeling. (Moved to 2007 ATSP)
- Coordination of risk assessment support and stakeholder participation from the DPH for the Wilmington community-based air toxics reduction program is on hold pending contracting a facilitator and start up of the stakeholder committee. (Moved to 2007 ATSP)

2006 Air Toxics Strategic Plan – Year end *Summary Status*

• *Gather information related to air toxics sources*

Key Accomplishments

- Finalized the 2003 emissions inventory changes needed for the local scale modeling in DATAS Phase II in May.

Significant 2006 Activities still underway

- Performing the technical review of the point source emissions data for the 2005 NEI. (Exp. completion – 6/1/07)

Shortfalls

- A full 2005 air toxics emissions inventory similar in quality and completeness to the 2003 DATAS emissions inventory was cut back to including only stationary point sources due to staff shortage. (Exp. completion – 6/1/07)

• *Identify options for reducing air toxics in the environment*

Key Accomplishments

- Completed assistance with Brandywine School District's submission of a diesel retrofit grant application in July.
- Completed assistance with the Claymont Community Association's (CCA) application for an EPA Community Action for a Renewed Environment (CARE) grant in March. However, EPA did not award a grant to the CCA.
- Obtained funding [\$50,000] for implementation of the AQM community-based air toxics reduction programs.
- Submitted comments on five (5) proposed EPA air toxics rules recommending that stringent regulatory requirements were needed to better protect the public. Three proposed rules addressed new residual risk standards (dry cleaning, solvent cleaning, chemicals manufacturing). One proposed rule would provide requirement for small stationary combustion engines and one proposed rule addressed the use of new leak detection methodology.

Significant 2006 Activities still underway

- Promoting CMAQ funding for air quality purposes at regular meetings of both MPOs continues. (Exp. completion – Ongoing)
- Developing the Wilmington community-based air toxics reduction program. (Moved to 2007 ATSP)
- Reviewing EPA's recently proposed area source gasoline distribution standard. (Exp. completion – 2/6/07)

2006 Air Toxics Strategic Plan – Year end Summary Status

• *Identify options for reducing air toxics in the environment – Cont.*

Shortfalls

- Implementation of the Wilmington community-based air toxics reduction program is on hold due limited resources and pending contracting facilitation services and start up of the stakeholder committee. (Moved to 2007 ATSP)
- Identification of air toxics source categories that broadly (i.e. county- or state-wide) contribute to adverse health impacts is on hold pending completion of DATAS Phase II modeling and risk assessment. (Exp. completion – Unknown)

• *Implement appropriate actions to reduce the harm from exposure to air toxics*

Key Accomplishments

- Obtained school bus diesel retrofit funding (\$150,000) as part of an enforcement settlement agreement in March.
- Completed DATAS Phase I educational outreaches in 4 communities, as well as for the Delaware General Assembly in June.
- Incorporated a pollution prevention display into the DATAS Phase I educational outreaches in 4 communities, as well as for the Delaware General Assembly in June.
- Exceeded commitment on conducting full compliance evaluations [FCEs] for Title V air toxics sources by completing 19 FCEs (all 16 commitments for 2006 and 3 of 11 for 2007 met) by September.
- Exceeded commitment on conducting full compliance evaluations [FCEs] for area air toxics sources by completing 5 FCEs (all 2006 and 2007 commitments met) by September.
- Exceeded commitment on conducting full compliance evaluations [FCEs] for dry cleaning facilities by completing 27 FCEs (all 19 commitment for 2006 and 8 of 19 for 2007) by September.
- Finalized dry cleaning source category permits and issue permits to 73 of 77 dry cleaning area sources by June. Four notices of violation issued for failure to submit permit applications.
- Provided small business assistance to dry cleaning sector on AQM's new source category permit requirements and on submittal of the permit applications through July.
- Finalized a new more protective regulation [Reg. 1146] to reduce mercury emissions from coal-fired utility boiler that is more health protective than recent federal rulemaking in November.
- Submitted final 111(d) implementation plan for the Clean Air Mercury Rule in November.
- Implement the Change-A-Light Campaign under the Energy Answers Program that distributed nearly 75,000 low watt replacement light bulbs throughout the State by November.

2006 Air Toxics Strategic Plan – Year end *Summary Status*

• *Implement appropriate actions to reduce the harm from exposure to air toxics – Cont.*

Key Accomplishments – Cont.

- Working with other state and local agencies, developed a polyvinyl chloride manufacturing model rule to supplant the remanded federal maximum achievable control technology standard by July.
- Conducted an anti-idling outreach at several truck stops in January.
- Green Energy program awarded 41 project grants totaling just over \$280,000 during 2006.
- Conducted energy efficiency and conservation outreaches with major exhibitions at the Delaware State Fair and Coast Day in July and October, respectively.

Significant 2006 Activities still underway

- Began issuing initial air permits to the auto body business sector with all but 7 (>90%) permits finalized by December. (Exp. completion – 2nd Quarter 2007)
- Began conducting inspections of the newly permitted sources in the auto body business sector. (Ongoing)
- Improving gasoline tank truck certification compliance; previously compliance implementation was hindered by limited staff. (Ongoing)
- Developing the final mobile source emissions budget. (Exp. completion – 2nd Quarter 2007)
- Developing a new regulation [Reg. 1124, Section 46] to reduce VOC and air toxics emissions from crude oil lightering operations in the absence of any federal requirements. (Exp. completion – 1st Quarter 2007)
- Amending the new source review regulation [Reg. 1125] that will be at least as stringent as the federal requirements. (Moved to 2007 ATSP)
- Amending the open burning regulation [Reg. 13] to reduce criteria pollutant and air toxics by extending the open burning prohibition statewide and by lengthening of prohibition season. (Moved to 2007 ATSP)
- Beta testing facility utility data from the recently completed database that tracks the state energy consumption and costs. (Exp. completion – Unknown)
- Developing a school environmental outreach program that includes anti-idling and other air toxics issues. (Moved to 2007 ATSP)
- Work in the area of the Building Energy Codes and Energy Star programs has resumed following the filling of a staff vacancy. (Moved to 2007 ATSP)
- Started up and funded (\$400,000) the Residential Appliance Rebate Program under the Energy Answers Program that provides rebate for new purchases of highly efficient home appliances.

2006 Air Toxics Strategic Plan – Year end *Summary Status*

• *Implement appropriate actions to reduce the harm from exposure to air toxics – Cont.*

Shortfalls

- Action on the recommended establishment of a mobile source program with AQM remains on hold due to lack of funding. (Exp. completion – Unknown)
- Promotion of electrification projects at truck stops, warehouses and ports is on hold due principally to the inability to identify funding. (Exp. completion – Unknown)
- Promotion of the commuter choices program [now called Best Workplaces for Commuters] has been limited due to priorities and funding. (Moved to 2007 ATSP)
- Some low priority Engineering and Compliance activities are on hold as 2 full time employees have been temporarily loaned to other AQM organizations. (Exp. completion – Unknown)
- Initial dialogue has begun with the Delaware Automobile and Truck Recycler's Association; however, more pressing environmental issues must be resolved before pursuing opportunities to introducing a mercury switch program. (Moved to 2007 ATSP)

• *Evaluate the effectiveness of the actions taken to reduce harm from exposure to air toxics*

Key Accomplishments

- Twelve months of additional air toxics concentrations were obtained in Wilmington [carbonyls, metals and VOCs] and Delaware City [VOCs].

Shortfalls

- A full 2005 air toxics emissions inventory similar in quality and completeness to the 2003 DATAS inventory was cut back to including only stationary point sources due to staff shortage. (Exp. completion – 6/1/07)

• *Air toxics resources development*

Key Accomplishments

- Obtained funding (\$70,000) for DATAS Phase II communications and outreach program from Cancer Consortium.