

US EPA ARCHIVE DOCUMENT

State Innovation Grant  
Missouri Department of Natural Resources  
St. Louis Air Quality Management Plan  
1<sup>st</sup> Quarter 2010 Progress Report

Synopsis of Accomplishments

Based on the project timeline, the activities planned in this quarter are designed to begin construction of technical data necessary for implementation of the AQMP. Subsequent comments on the final draft AQMP from members of the workgroup and interested stakeholders required minor changes to the document. This final version of the AQMP was forwarded to EPA – OAQPS for inclusion in their report on the three AQMP pilot areas. There were three, formal AQMP conference calls during the 1<sup>st</sup> quarter of 2010. After the AQMP submittal and during one of the conference calls, a presentation to the AQMP group was provided by the Indiana Department of Environmental Management (IDEM). This presentation focused on air toxics inventory development and fine scale air quality modeling conducted for a portion of Indianapolis. This presentation provided information on IDEM's approach to this type of evaluation. Much of the effort during the 1<sup>st</sup> quarter was to develop emission inventory information for the upcoming ozone State Implementation Plan for St. Louis. This information incorporates the new paradigm for air toxics in addition to the core inventory requirements. This effort includes the development of a statewide inventory for electric generating units, non-utility point sources, area sources, on-road mobile, and non-road mobile sources. As with any photochemical modeling exercise, it will include information from numerous other states.

The specific details for each important grant task are outlined below in Table 1.



Table 1 - Schedule of Major Project Tasks

	Task Name	Task Description	Outputs Expected	Start Date	End Date	Complete	Comments
5.3	Prioritization of Air Quality Issues in St. Louis**	Decisions by the agencies with substantive stakeholder input regarding the prioritization of air quality problems within the area, resource allocation, staffing, etc.	Discussion within the AQMP about resources, air quality priorities, funding issues, etc.	8/09	10/09	Draft	At this point, the key focus areas are the 2010 ozone standard and the air toxics evaluation necessary for inclusion. With the new NO2 and SO2 standards, these emphasis areas may change in conjunction with EPA's consideration of the 8-hour ozone NAAQS.
6.1.1	Development of Request for Proposal (RFP) for Air Quality Modeling Contract**	After the "new" modeling constructs have been transferred, an RFP will be created for assistance in the development of the emission inventory and modeling databases for the AQMP process; the contract will be for \$100,000 (this amount will not fund the whole effort; assistance only)	Completed RFP for modeling assistance	12/08	3-5/09	N/A	Given the on-going changes to ozone standards the RFP will not be necessary until after decision regarding "new" modeling structure (Task 6.1.3).

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	Task Name	Task Description	Outputs Expected	Start Date	End Date	Complete	Comments
6.1.2	Selection of Contractor/Contract Agreement**	Evaluation of the RFP and completion of the contractor selection culminating in the negotiation and finalization of the contract	Documentation of contract process and selection of contractor for this project and final contract for use	7/09	9/09	N/A	Tabled until after RFP is developed
6.1.3	Selection of Modeling Database (year, domain, etc.)*	Selection of the new modeling inventory year and database including domain size(s) for evaluation of criteria pollutants and air toxics (the outcome of this task will drive the remainder of the process and will need to be thoroughly discussed with EPA OAQPS and the Regional Offices and will be based on available EPA guidance for the new NAAQS)	Technical document detailing decision and rationale	9-10/09		N/A	Many of these choices have been made, but some of the remaining decisions will have to wait until EPA has finalized the new 8-hour ozone standard

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	Task Name	Task Description	Outputs Expected	Start Date	End Date	Complete	Comments
6.1.4	Development of Baseyear Emission Inventory**	Obtain available emission inventory data from states, regional planning organizations, and EPA for criteria and air toxics pollutants (e.g. National Toxics Inventory); develop Missouri/St. Louis information then, process these data to develop the model-ready inventory database for this project (majority of contract funding will be expended here)	Model-ready emission inventory database	Early 2010	Mid-2011	N/A	Initial work is underway for the 2007 statewide inventory of Missouri including air toxics that will be utilized for the baseyear inventory
6.1.5	Development of Other Baseyear Inputs	Development of air quality, meteorological, and other photochemical modeling inputs	Model-ready database	Early 2010	Mid-2011	N/A	Meteorological information is being developed for the summer of 2007 and will be paired with the other air quality and modeling inputs for use in the baseyear modeling exercise.

### Narrative Discussion

The state of Missouri is still suffering from serious on-going budget difficulties. While there are no definitive plans to address current funding shortfalls for the next fiscal year, the Air Program remains committed to beginning its implementation. The remaining issues related to the AQMP are beyond the control of the department. The department was moving forward with efforts to begin analysis of the 2008 ozone standard under the AQMP for St. Louis. However, EPA's reconsideration of the standard has put this process on hold along with the issuance of draft National Ambient Air Quality Standards (NAAQS) for NO<sub>2</sub> and SO<sub>2</sub> that will likely impact the St. Louis area. The NO<sub>2</sub> standard has been finalized, but the near roadway monitoring requirements have caused some concern related to potential nonattainment in the St. Louis area. In order to change the AQMP focus and pollutants of interest, the AQMP was crafted with an adaptive management philosophy to address changes in air quality goals.

### Next Quarter Activities

The activities in the 2<sup>nd</sup> quarter of 2010 will further the implementation of the St. Louis AQMP. A meeting with stakeholders is scheduled this quarter to discuss the development of the emission inventory and meteorological modeling necessary under the new ozone standard. The subsequent analysis will be a primary tool utilized by the AQMP for air quality management decisions. The Air Quality Advisory Committee meetings to continue discussions about the implementation of the AQMP will continue. In addition, there will be discussions regarding health-based evaluation metrics under the AQMP and the other ancillary air quality issues to be included in the AQMP evaluations.

### Financial Report

The following items were billed to the grant.

Personal Service	\$4,982
Fringe	\$2,473
Indirect	\$2,220

This leads to a total expenditure of \$9,676 during the 1<sup>st</sup> quarter 2010.