

US EPA ARCHIVE DOCUMENT

State Innovation Grant  
Missouri Department of Natural Resources  
St. Louis Air Quality Management Plan  
2<sup>nd</sup> Quarter 2009 Progress Report

Synopsis of Accomplishments

Based on the project timeline, the activities planned in this quarter are designed to further the project team's development of the AQMP including the completion of the QAPP for this grant, complete the transfer of data and modeling constructs to department staff, and furthering the outreach for community involvement in plan development. The development of the framework for the AQMP document was on-going during this reporting period and a first draft of the plan is anticipated in mid-August. There were six AQMP conference calls during the 2<sup>nd</sup> quarter of 2009 and a meeting in St. Louis to plan the AQMP document framework on June 23-24. During these and other discussions, EPA-OAQPS has emphasized that the final December deliverable (e.g. AQMP document) is critical to the on-going AQMP project. This emphasis has led to inclusion of individuals not employed by either state agency as part of the "working group" for development of the plan. This inclusion will bring additional perspective to the plan and will enhance the overall effectiveness of its implementation.

A conference call was held in late April to discuss comments from EPA's contractor (funded by the National Center for Environmental Innovation) on the draft QAPP submitted during the 1<sup>st</sup> quarter of 2009. The conference call raised some additional issues with the plan and the department is still working on responding to those issues at this time. During the latter portion of this quarter, the department acquired some of the modeling files used by EPA-OAQPS to conduct the multi-pollutant analyses for the Detroit area including ozone and toxics. This acquisition of this data will allow staff to begin training with the emission modeling and photochemical modeling constructs utilized by OAQPS for the Detroit multi-pollutant exercise.

Also, the proposed change to the Missouri Emission Inventory System (MoEIS) to allow for collection of air toxics data has been delayed by the department's Information Technology Services Division due to lack of staff time for the project. The funding for this task has been moved to This delay will have a small impact on this project and will require more effort from technical staff to produce the necessary inventory for the project. However, it is not a critical delay at this point. The computer equipment purchased in the 1<sup>st</sup> quarter 2009 has been configured to allow execution of the latest modeling software and is fully operational at this time.

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
3B2	Quality Assurance Project Plan (QAPP)	Development and submittal of QAPP for creation and implementation of the St. Louis AQMP	Submittal of draft QAPP for the project to USEPA	10/08	3/09	Draft, yes. Final, work in progress	Additional Comments from EPA on 5/1/09; work on-going to respond to comments
4.1	Air Toxics Inventory	Obtain and process for use air toxics inventory information from Missouri/Illinois sources along with EPA National Toxics Inventory database for point, area, and mobile sources as a template for AQMP use	Template to develop air toxics inventory for use in photochemical modeling and inventory analyses	7/08	10/09	N/A	This work is on-going and staff has obtained the information to begin evaluation of the inventory data for the St. Louis area
4.1.1	Emission Model Construct Transfer/Training *	EPA-OAQPS has developed an emission modeling construct to process air toxics inventory information that is critical for use in this project; transfer of this construct from OAQPS with support for use	Transfer of information from EPA-OAQPS and trained technical staff (with guidance from EPA)	7-8/08	1-3/09	N/A	OAQPS provided background files used for the Detroit study. Evaluation of files is still on-going.

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	Task Name	Task Description	Outputs Expected	Start Date	End Date	Complete	Comments
4.1.2	Upgrade Missouri Inventory System for Air Toxics**	Change in coding necessary to support air toxics inventory improvement for stationary sources in Missouri's current Emission Inventory System (MoEIS); will require contract (\$10,000); output will be a modified system that will track VOC, HAPs, and PM emission units independently instead of VOC/HAP and PM/HAP as currently done	Improved inventory system for ease of facility entry of emission information, improved quality assurance of plant-provided toxic data, and data analyses/storage capability	10/08	10/09	N/A	This portion of the project has been delayed indefinitely due to staff resource issues. An independent tracking system will be used for this information will be required.
4.2	Photochemical Modeling Transfer/Training **	EPA-OAQPS has developed (is developing) an air quality (photochemical) model to evaluate ozone, PM, and air toxics using the same model/inputs; transfer of this model to allow for a comprehensive evaluation of all relevant pollutants in StL	Transfer of information from EPA-OAQPS and trained technical staff (with EPA guidance)	10/08	4-6/09	N/A	Same as 4.1.1
5	Creation of AQMP*	Development of the plan entails considerable public outreach, incorporation of technical information, policy discussions between the relevant agencies and stakeholders, and ultimately decisions about what are air quality priorities in St. Louis	The AQMP submitted to USEPA	12/07	12/09	N/A	The AQMP development is proceeding. A draft framework document is being circulated within the working group.

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	Task Name	Task Description	Outputs Expected	Start Date	End Date	Complete	Comments
5.1	Public Outreach/ Education*	Meetings with local community to begin the education process about AQMPs; meetings with AQMP team, stakeholders and internal management to discuss technical policy issues related to the AQMP; formal public comments/hearing on the plan	Meeting summaries; documented revisions to the AQMP; Missouri Air Conservation Commission adoption of the AQMP	12/07	12/09	N/A	Three meetings of the Air Quality Advisory Committee in St. Louis were held and the AQMP is an on-going topic.
5.2	Incorporation of Technical Information**	Incorporate experience with model constructs and processes from Task 4 into the AQMP structure	Discussion within the AQMP about problems/solutions, concepts to be included, start of documentation regarding transfer of data to others	4-6/09	10/09		Due to delays in transfer of the modeling files from OAQPS, this process has just recently begun.
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	Based on difficulties with the construct transfers and a focus on developing the actual AQMP, the RFP will not be necessary until later this fall (October).

### Narrative Discussion

There are two known issues that have caused minor delays in the project. The first, discussed previously, is the delay in the transfer of information from OAQPS regarding the specific methodology utilized in the Detroit study. This issue has been resolved and technical training and work needed for preparation of the modeling structure for the AQMP has commenced. The next crucial issue is a meaningful discussion between the management of Missouri and Illinois along with EPA (OAQPS, Regions V/VII). This will facilitate the policy discussion necessary for success of the AQMP. Also, it will provide both states and EPA the opportunity to commit staff resources to the project that will allow the AQMP to be finished by December 2009. This staff commitment is crucial to the on-going success of the project. This meeting is scheduled for August/September but likely should have occurred during this quarter to allow for additional efforts by both states to further the AQMP development.

### Next Quarter Activities

Further development of the AQMP including a planned meeting between management of the EPA Regional Offices, the department, and the Illinois EPA to discuss the policy-related issues found while developing the conceptual model and future goals of the AQMP is planned in late August/early September 2009. This meeting is designed to highlight policy issues for decision-makers and provide a clear direction to the AQMP team to complete the development of the plan. This development of the AQMP will be a primary focus in this quarter. Also, the department will be preparing to take the AQMP before the Missouri Air Conservation Commission for adoption as the mechanism to conduct air quality planning in the St. Louis area. Air Quality Advisory Committee meetings and further training of staff on the analysis tools for the project will continue.

### Financial Report

The following items were billed to the grant.

Personal Service	\$2,739
Fringe	\$ 932
Indirect	\$1,172
Travel	\$ 113

This leads to a total expenditure of \$4,955 during the 2<sup>nd</sup> quarter 2009.