

US EPA ARCHIVE DOCUMENT

State Innovation Grant
Missouri Department of Natural Resources
St. Louis Air Quality Management Plan
4th Quarter 2009 Progress Report

Synopsis of Accomplishments

Based on the project timeline, the activities planned in this quarter are designed to finalize the AQMP for submittal to EPA-OAQPS by the end of December. This goal has been considered a hard deadline by the AQMP working group and was accomplished on December 29, 2009 when the final draft of the document was sent to EPA. This followed significant AQMP development activities within the 4th quarter that included review of the draft AQMP by the St. Louis Air Quality Advisory Committee (AQAC) members during the month of December and subsequent revisions to the document. There were three, formal AQMP conference calls during the 4th quarter of 2009 and a presentation of the draft AQMP to the AQAC as well as a presentation to the Missouri Air Conservation Commission to update them on the plan development. The Air Conservation Commission expressed great appreciation of the approach that the AQMP team is taking to conduct multi-pollutant analyses in the St. Louis area. Further, they were very pleased with the components of the plan that are designed to emphasize communication with interested stakeholders in the development of State Implementation Plans for St. Louis. The AQMP is attached for your review. A department management decision was made to not have a formal adoption of the AQMP due to the Clean Air Act requirement for public comment and adoption of the overall St. Louis State Implementation Plan and its components.

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	Work on QAPP was tabled until AQMP is finalized
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	Work continues and staff has completed an initial draft template for use and has begun quality assurance measures for the St. Louis data
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 task has been eliminated due to lack of information technology assistance. Priorities have changed and this portion of the project is no longer achievable.

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	Task Name	Task Description	Outputs Expected	Start Date	End Date	Complete	Comments
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	Task completed by submittal to USEPA of AQMP on 12/29/09.
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;	Meeting summaries; documented revisions to the AQMP; Missouri Air Conservation Commission adoption of the AQMP	12/07	12/09	N/A	A meeting of the Air Quality Advisory Committee on 12/1/09 was held with the AQMP as a primary topic along with the Missouri Air Conservation Commission Meeting on 12/4/09 described above. Due to a management decision, Commission adoption of the AQMP has been tabled.

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	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	This goal has been tailored to evaluate existing requirements in St. Louis and new information regarding the 2006 PM2.5 designation and 2008 ozone standard delayed prioritization until after completion of the AQMP
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 changes to PM2.5 and ozone standards and a focus on developing the actual AQMP, 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 final AQMP 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	Decisions will be reached 1 st Quarter 2010 to begin implementation of the AQMP construct after allow 6.1.1 to be accomplished.

Narrative Discussion

The on-going budget problems in the state of Missouri are still being evaluated. While there are no definitive plans to address current funding shortfalls, 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 September 2009 reconsideration of the standard has put this process on hold along with the issuance of draft National Ambient Air Quality Standards (NAAQS) for NO₂ and SO₂ that will likely impact the St. Louis area. The reconsideration and the designation of the St. Louis area as attainment under the 2006 PM_{2.5} standard were factored into the final AQMP document and carried forward into its implementation. In addition, the AQMP was crafted with an adaptive management philosophy to address changes in air quality goals. This is even more critical since EPA's decision about revising the NAAQS has occurred before implementation of the plan.

Next Quarter Activities

The 1st quarter of 2010 will begin the implementation of the St. Louis AQMP. The final AQMP provides clear direction to the AQMP team to begin implementation of the plan. This will include a meeting with stakeholders to discuss the modeling necessary under the new ozone standard. This analysis will be a primary tool utilized by the AQMP for air quality management decisions. It should be noted that the MACC and the department are still strongly supportive of the AQMP effort and will continue its development and ultimate use of its products for submittal to EPA. Also, the Air Quality Advisory Committee meetings to continue discussions about the implementation of the AQMP will continue.

Financial Report

The following items were billed to the grant.

Personal Service	\$5,172
Fringe	\$3,026
Indirect	\$1,859

This leads to a total expenditure of \$10,057 during the 4th quarter 2009.