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October 8, 2007

Dr. S. T. Rao and Dr. D. Mangis
 U.S. Environmental Protection Agency
 Office of Research and Development
 National Exposure Research Laboratory
 Atmospheric Modeling Division (MD E243-02)
 109 T.W. Alexander Drive
 Research Triangle Park, North Carolina 27709

RE: Product Evaluation Questionnaire Reponse for NERL APM #192 entitled
 "Assessment of annual nitrogen deposition (oxidized and reduced) to Tampa Bay to
 characterize the deposition and to provide guidance to the State of Florida on
 potential contributing sources (Bay Regional Atmospheric Chemistry Experiment)"

Dear Drs. Rao and Mangis:

Please find below my responses and comments on the above mentioned NERL product.

	Excellent	Good	Poor
How useful was the information provided?	<u> X </u>	_____	_____
Rate the technical quality of the product:	<u> X </u>	_____	_____
	Yes	No	
Has or will this research product be used to effect rule-making decisions?	<u> X </u>	_____	

The results of the CMAQ model application for Tampa Bay will have immediate use in the development of implementation plans for existing nutrient TMDLs for Tampa Bay. The Tampa Bay Estuary Program is coordinating a public/private Nitrogen Management Consortium Action Plan to address nutrient impairments and resource-based nitrogen reduction targets. Atmospheric deposition of nitrogen is the largest source type contributing to nitrogen loading to the Bay, and the results of this work have been and will continue to be critical in the development of appropriate nitrogen management actions to meet long-term targets and address impairments.

T A M P A B A Y E S T U A R Y P R O G R A M

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POLICY BOARD: HILLSBOROUGH COUNTY, MANATEE COUNTY, PINELLAS COUNTY, CITY OF CLEARWATER, CITY OF ST. PETERSBURG, CITY OF TAMPA, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, U.S. ENVIRONMENTAL PROTECTION AGENCY.



These results will also be used by EPA Region 4 and the Florida Department of Environmental Protection in the development of TMDLs for nutrient impairments in waterbodies within the Tampa Bay watershed, scheduled for 2008 and 2009.

As an aquatic ecologist and resource manager, I am very appreciative of the detail and formatting style used by Robin Dennis in reporting the results of a complex state-of-the-science air chemistry, transport and deposition modeling effort. He took great care in addressing the resource-based questions that I had as an end user, in preparing and reporting the analyses and results in a form that I can use directly in the development of TMDL implementation plans for existing and future projections. Mr. Dennis was in contact with me throughout the model development to ensure that the results would be provided and presented in the most useful terms for my needs.

Other comments or suggestions for improvement:

I have no suggestions for improvement for this project, but I would urge ORD to use this experience and methodology (i.e., extensive contact between model developer and end user throughout the development of results and reporting) as an outstanding example of developing and delivering complex modeling results to end users. I would be pleased to assist in letting others know of how effective and useful this effort has been, from my perspective as an end user.

Sincerely,



Holly Greening
Senior Scientist
Tampa Bay Estuary Program

cc: Marc Russell
Tom Welborne, EPA Region 4 and TBEP Policy Board
Dick Eckenrod, TBEP Executive Director
Tom Atkeson, FDEP BRACE coordinator
Robin Dennis