

Attachment B
Fiscal Year 2011 Work Plan

Fiscal Year 2011 Rider 8 Phase II Work plan
Effective Date through August 31, 2011
Recipient: Heart of Texas Council of Governments

Task 1: Ambient Monitoring Projects

- 1.1 The TCEQ and Performing Party will both review the Performing Party's Enhanced Monitoring Proposal and Conceptual Model created as part of its FY 2010 work plan and develop a mutually agreeable set of requirements for any new monitoring equipment needed for the 2011 ozone season. If a mutual agreement cannot be reached, then the Performing Party shall deploy monitoring equipment at the direction of the TCEQ.

Deliverable: New monitoring equipment deployed at the TCEQ's direction in time to monitor ozone, ozone precursors, or meteorology on a continuous basis for the 2011 ozone season.

Deliverable Date: April 15, 2011 through August 31, 2011

Cost: \$45,000

Task 2: Emissions Inventories Improvement

- 2.1 The Performing Party shall implement emissions inventory improvements for any sources for which improvement plans were developed in the FY 2010 work plan (Task 3.2).

Deliverable: The Performing Party shall prepare a report documenting the emissions inventory improvement projects and providing the information necessary to update TCEQ modeling files. The report will describe the steps taken, any significant deviations from the previously developed plan, and any background the Performing Party feels is relevant to the project. The Performing Party shall provide the report in Microsoft Office Word and Adobe Acrobat Reader (*.pdf) formats. Any supporting data or information shall be provided in like format or in a format agreed to by the TCEQ and the Performing Party.

Deliverable Date: July 1, 2011

Cost: \$25,000

- 2.2 The Performing Party shall review the Point, Area, and Non-Road portions of the 2008 National Emissions Inventories provided for each area by the TCEQ. The Performing Party shall identify additional significant source categories not identified in FY 2010 that it believes to be under or over estimated, accompanied by high levels of uncertainty, or where the Performing Party

believes it can provide additional or more detailed emissions inventory input at a sub-county level of analysis.

Deliverable: The inventory review shall be delivered to the TCEQ in a Microsoft Office Word and Adobe Acrobat Reader (*.pdf) format. Any supporting data or information shall be provided in like format or in a format agreed to by the TCEQ and the Performing Party.

Deliverable Date: *July 1, 2011*

Cost: \$10,000

Task 3: Photochemical Modeling

During the Phase II period (October 1, 2010 through August 31, 2011), the TCEQ and the Performing Party will be engaged in several photochemical modeling activities designed to advance the Texas State Implementation Plan (SIP). The goal of these Phase II activities is to prepare both a working June 2006 base case ozone episode and a 2008 baseline scenario of this base case.

Some of the steps involved in reaching this goal may include, but are not limited to:

Primarily Responsibility of the TCEQ:

1. Completing performance evaluations of the Weather Research and Forecasting (WRF) meteorological modeling;
2. Producing meteorological modeling optimized for inland and coastal areas;
3. Developing and/or modifying 2006 meteorological and emissions inputs for an alternative modeling domain;

Primary Responsibility of the Performing Party with Oversight of the TCEQ:

4. Developing a photochemical modeling protocol appropriate for submittal as part of a Texas SIP revision based on a revised eight-hour ozone standard;
5. Improving and upgrading modeling emissions inventories for the 2008 baseline scenario of this ozone episode;

6. Investigating model performance of the 2006 base case ozone episode;

Primary Responsibility of the Performing Party:

7. Investigating possible ozone sources transported into a particular nonattainment area along with the formation of ozone within the area based on precursor emissions;
8. Investigating model sensitivity to broad changes in precursor emissions using tools such as Anthropogenic Precursor Culpability Assessment (APCA), Ozone Source Apportionment Technology (OSAT), or High-order Decoupled Direct Method (HDDM); and
9. Evaluation of potential local voluntary or mandatory control strategies.

During Phase II, the TCEQ will continually work to develop the overall photochemical modeling episode and periodically deliver updates to the Performing Party via Internet, FTP site, or disk drive (for large files) provided by the Performing Party. Steps 1-3 will be the primary responsibility of the TCEQ while steps 7-9 will be the primary responsibility of the Performing Party. Steps 4, 5, and 6 will be primarily a Performing Party responsibility with significant oversight by staff at the TCEQ.

The Performing Party is encouraged to perform appropriate modeling sensitivities which may include APCA runs, OSAT runs, HDDM runs, or source category sensitivities which may provide the Rider 8 areas and the TCEQ with preliminary information regarding the more efficient control strategies to pursue. The use of "zero out" runs whereby anthropogenic precursor emissions are eliminated over large geographic areas is discouraged.

There are several guidelines that the Performing Party shall adhere to.

First, in applying the photochemical model, the Performing Party may not analyze or model control strategies unless they meet the following criteria:

1. The geographic applicability is limited to the Performing Party's program area; and
2. The control strategy is either voluntary or can be implemented under a political subdivision's existing legal authority.

Second, because the TCEQ's staff resources are limited, the Performing Party should expect that technical assistance will be limited to answering specific questions from experienced users of EPS3, CAMx, WRF, LINUX operations systems, and LINUX systems management. Staff from the TCEQ will not be available to provide comprehensive assistance to inexperienced users of EPS3, CAMx, WRF, and LINUX. Third, distribution of multiple and/or large size modeling files to the Performing Party shall require a hard drive shipped

and provided at the Performing Party's expense and formatted for LINUX operating systems. Fourth, the TCEQ will not reimburse the Performing Party for any use of photochemical modeling episodes developed for periods prior to 2005.

Deliverable: The Performing Party shall document its photochemical modeling activities as part of its regular monthly progress report. The Performing Party shall include any important analyses and results from its inventory development and photochemical modeling work. The Performing Party shall provide the report in Microsoft Office Word and Adobe Acrobat Reader (*.pdf) formats. Any supporting data or information shall be provided upon request in like format or in a format agreed to by the TCEQ and the Performing Party. For emission inventory and/or modeling file improvements, the Performing Party shall provide all "upstream" inputs in an appropriate electronic format so that suggested changes can be readily replicated and incorporated by the TCEQ staff.

Deliverable Date: Monthly

Cost: \$33,000

Task 4: Outreach

4.1 The Performing Party shall maintain and facilitate stakeholder groups or committees that include local governments, businesses, citizens groups, and environmental groups. The purpose of these stakeholder groups shall be (to the extent the Performing Party determines appropriate) to foster community participation in local ozone reduction efforts, review technical work, serve as source of information or ideas in developing local ozone reduction efforts.

Deliverable: The Performing Party shall document its activities (including how many stakeholders attend meetings) and meetings with meeting summaries and in the monthly progress reports.

Deliverable Date: Monthly

Cost: \$21,000

4.2 The Performing Party shall maintain a public web site to facilitate public access to air quality information and the technical or outreach undertaken by the Performing Party. The Performing party shall document traffic on its website by counting the number of times the web site is "hit" each month.

Deliverable: The Performing Party shall produce and/or maintain a working web site open to the general public on the internet as well as information documenting web site traffic.

Deliverable Date: Continuously. Documentation of web site traffic shall be entered into the Performing Party's monthly progress report.

Cost: \$1,000.

TASK 5: Administrative Activities

The Performing Party shall perform all support necessary to ensure that all grant requirements are met and that the Work is completed in a timely manner with sufficient quality. This may include, but is not limited to providing general supervision for grant activities, administering sub-contracts, submitting reports and invoices, facilitating and/or attending meetings for stakeholder groups or other planning entities. The Performing Party shall summarize its activities in a monthly progress report described below.

Deliverable: The progress report and monthly invoices shall document, in sufficient technical detail and by task, the accomplishments, expenditures, and milestones achieved during the prior thirty (30) days in monthly progress reports. Specifically, the monthly progress report shall:

1. Summarize all activities performed by the Performing Party with respect to each task and subtask of this work plan for the previous month;
2. Establish performance goals for each task and subtask for the month in which the report is delivered;
3. Compare accomplishments on every task and subtask to performance goals established the previous month;
4. Summarize reasons why performance goals were not met; and
5. Provide a preliminary estimate of costs by task and subtask for the reporting period.

Deliverable Date: The Performing Party shall submit, via electronic mail, a monthly progress report of its activities no later than the 10th day of each month or the next business day if the 10th of the month falls on a weekend or holiday. Monthly invoices should be submitted to the TCEQ monthly as soon as practical.

Cost: \$16,000

FY 2011 Summary of Deliverables

In the event of a conflict between the deliverables or due dates shown in this table and the deliverables or due dates described above, the deliverables and due dates in the table prevail, except that if a deliverable is described above but is not shown on this table, it shall nevertheless be due as described above.

Deliverable	Deliverable Date
Task 1.1: New monitoring equipment deployed at the TCEQ's direction in time to monitor ozone, ozone precursors, or meteorology on a continuous basis for the 2011 ozone season.	April 15, 2011 through August 31, 2011
Task 2.1: The Performing Party shall prepare a report documenting the emissions inventory improvement projects and providing the information necessary to update TCEQ modeling files.	July 1, 2011
Task 2.2: The second inventory review shall be delivered to the TCEQ in a Microsoft Office Word and Adobe Acrobat Reader (*.pdf) format. Any supporting data or information shall be provided in like format or in a format agreed to by the TCEQ and the Performing Party.	July 1, 2011
Task 3: The Performing Party shall document its photochemical modeling activities as part of its regular monthly progress report. The Performing Party shall include any important analyses and results from its inventory development and photochemical modeling work. The Performing Party shall provide the report in Microsoft Office Word and Adobe Acrobat Reader (*.pdf) formats. Any supporting data or information shall be provided upon request in like format or in a format agreed to by the TCEQ and the Performing Party. For emission inventory and/or modeling file improvements, the Performing Party shall provide all "upstream" inputs in an appropriate electronic format so that suggested changes can be readily replicated and incorporated by the TCEQ staff.	Monthly

Deliverable	Deliverable Date
Task 4.1: The Performing Party shall document its activities (including how many stakeholders attend meetings) and meetings with meeting summaries and in the monthly progress reports.	Monthly
Task 4.2: The Performing Party shall produce and/or maintain a working web site open to the general public on the internet as well as information documenting web site traffic.	Continuously. Documentation of web site traffic shall be entered into the Performing Party's monthly progress report.
Task 5: The progress report and monthly invoices shall document, in sufficient technical detail and by task, the accomplishments, expenditures, and milestones achieved during the prior thirty (30) days in monthly progress reports.	The Performing Party shall submit, via electronic mail, a monthly progress report of its activities no later than the 10 th day of each month or the next business day if the 10 th of the month falls on a weekend or holiday. Monthly invoices should be submitted to the TCEQ monthly as soon as practical.
Annual Cost Allocation Plan Documentation Section 12.8.1	The Performing Party shall annually provide to the TCEQ, copies of its current cost allocation plans for indirect, allocated central service, and billed central service costs within thirty (30) days of that plan being approved by its cognizant agency or state coordinating agency.
Section 12.8.2: <i>Indirect and Allocated Central Service Costs Recovery Report for the Year Ending August 31</i>	October 31 of each year