

Attachment B

Fiscal Year 2011 Work Plan

**Fiscal Year 2011 Rider 8 Phase II Work Plan
Effective Date through August 31, 2011**

Work Plan Purpose

The primary goals of the projects contained within this work plan are to assess ozone problems in the Austin program area (Bastrop, Blanco, Burnet, Caldwell, Fayette, Hays, Lee, Milam, Travis, and Williamson Counties) to support the implementation of proactive efforts to reduce ozone as committed to in the region's 8-hour Ozone Flex Program, and to provide a basis for air quality planning that will enable the region to deal with nonattainment, if and when it occurs, in a timely fashion in support of State Implementation Plan (SIP) development activities undertaken by the TCEQ.

Work Plan Objectives

CAPCOG is committed to coordinating technical planning activities with regional interests represented on the Central Texas Clean Air Coalition to provide good science for assessing regional air quality problems. The Performing Party shall continue air quality planning and implementation support activities by conducting the following activities:

- Compile activity and other emissions-related data to develop a regional inventory of emissions sources to identify regional sources of ozone precursor pollutants and assist with the analysis of successful emissions control strategies.
- Characterize meteorological conditions and emissions contributions resulting in high ozone levels in the Austin region.
- Support the performance evaluation and periodic reporting of and, continuation and improvement of existing voluntary emission reduction measures, as necessary pursuant to commitments made to the EPA and TCEQ by local governments in the Austin/Round Rock MSA (A/RR MSA) under the 8-Hour Ozone Flex Program. The 8-O3 Flex agreement document can be viewed at:
<http://www.capcog.org/documents/airquality/reports/8o3flex/Austin-RoundRock8-HourOzoneFlex.pdf>.
- Support involvement of local elected officials through the Clean Air Coalition in the assessment of local contributions to air quality problems and making decisions on what strategies make sense and can be locally supported for the improvement of regional air quality.

Task 1: Update Conceptual Model through the 2010 Ozone Season

The Performing Party shall identify necessary and sufficient conditions for high ozone measurements (defined as exceeding the primary ozone National Ambient Air Quality Standard (NAAQS)) in the Austin program area. The Performing Party's analyses shall include any seasonal variations and use data through 2010 to the extent possible. In particular, the Performing Party's conceptual model will include the following analyses:

- Evaluation of the wind speeds, directions and time of day associated with high ozone events to determine the local conditions and source alignments most frequently associated with high ozone events.
- Development of 24-hour back-trajectories to determine source regions most (and least) likely to affect local area ozone.
- Conduct a weekday/weekend analysis to evaluate the potential effectiveness of reduced levels of local industrial and mobile source activity on their area;
- Evaluate the range and average background ozone concentrations associated with local wind directions;
- Investigate ozone and precursor trends and estimate the annual frequency of high ozone days at primary standard levels; and
- Address additional relevant questions listed in Section 11.1.1 of EPA's ozone modeling guidance document, *Guidance on the Use of Models and Other Analyses to Demonstrating Attainment of Air Quality goals for Ozone, PM2.5, and Regional Haze*.

Deliverable: The Performing Party shall deliver an updated Conceptual Model containing analysis of monitoring and other data through 2010. The conceptual model shall be delivered to the TCEQ in a Microsoft Office Word and Adobe Acrobat Reader (*.pdf) format. Accompanying data and other supporting material shall be provided in a mutually agreeable electronic format.

Deliverable Date: June 15, 2011

Cost: \$34,000

Task 2: Ambient Monitoring Projects

- 2.1 The Performing Party shall continue to collect and deliver any routine, hourly ambient monitoring data collected in Fiscal Year 2010. In order to provide accurate quality assurance data for modeling efforts and track movement of pollutants, the Performing Party shall operate the ambient air monitoring sites listed in *Table 1: Ambient Air Monitoring Sites to be Operated by the Performing Party*, consistent with the enhanced monitoring plan developed under Task 2.2, and ensure that these sites regularly transfer data to the TCEQ's Leading Environmental Analysis and Display System (LEADS) data system. These monitor sites are described in the FY2008-2009 work plan. The Performing Party shall operate these monitoring sites from April 15 until August 31, contingent upon funding availability. This task also includes the cost of equipment maintenance and replacement.

This contractor-owned transfer standard will be calibrated according to TCEQ specifications, policies and procedures in the TCEQ's NAMS/SLAMS Network and U.S. Mexico Border Support Activities Quality Assurance Project Plan for Air Monitoring in Texas. These requirements are based on requirements found in the code of Federal Regulations (CFR) 40, Parts 50, 53, and 58. See URL <http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-C.htm>

Table 1: Ambient Air Monitoring Sites to be operated by the Performing Party

STATION	LOCATION (ADDRESS)	EQUIPMENT (INSTRUMENTS)	ANNUAL START DATE	ANNUAL END DATE
CAMS 601	636 Roznov Road Roundtop, TX	Ozone monitor, zeno data logger, NOx Monitor, SO2 Monitor meteorological equipment & tower	April 15	August 31
CAMS 614	29400 Ranch Road 12 Dripping Springs, TX	Ozone monitor, zeno data logger, NOx Monitor, meteorological equipment & tower	April 15	August 31
CAMS 674*	212 Commerce St. Round Rock, TX	Ozone monitor, Wind speed, Wind direction	April 15	August 31
CAMS 675	222 Sessoms Dr. San Marcos, TX	Ozone monitor, Wind speed, Wind direction	April 15	August 31
CAMS 684	1884 State Hwy 71 W Cedar Creek, TX	Ozone monitor, Wind speed, Wind direction	April 15	August 31
CAMS 690	500 Lake Overlook Dr. Georgetown, TX	Ozone monitor, NOx monitor, SO2 monitor, Wind speed, Wind direction	April 15	August 31

*The Round Rock monitor will have to be moved after October 31, 2010. The Performing Party will work with TCEQ staff to find an appropriate location for the monitor.

Deliverable: Ambient monitoring data collected at monitoring sites described in the Fiscal Year (FY) 2010 work plan delivered to TCEQ's LEADS.

Deliverable Date: Continuously between effective date and October 31, 2010 and April 15, 2011, and August 31, 2011, contingent on funding availability, or as soon as practical.

Cost: \$46,000

- 2.2 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, site locations, and scheduling needed for the 2011 ozone season. Monitoring equipment will then be deployed in conjunction with a regional monitoring plan as formulated by TCEQ and regional air quality advisory committee staff to accomplish mutually agreed objectives, considering timing and resource constraints. If a mutual agreement cannot be reached, the TCEQ may withhold this portion of the grant associated with this subtask.

Deliverable: New monitoring equipment deployed in conjunction with regional monitoring plan as discussed above and adjustments made to monitoring contracts in time to monitor ozone; ozone precursors, or meteorology on a continuous basis for the 2011 ozone season.

Deliverable Date: April 15, 2011

Cost: \$29,000

- 2.3 The Performing Party shall collect flux measurements to evaluate the transport of ozone and ozone precursors into the Austin area. The first task shall be to develop two new sampling routes to evaluate transport from additional directions as indicated in the region's 2010 conceptual model. The sampling routes shall be based on an analysis of historical air quality measurements and the conceptual model. Each route shall follow lightly traveled paved roads to minimize the impact of diesel vehicles. Sampling operations shall last approximately 8 hours per day at a speed of about 25 miles per hour. Each sampling route shall be approximately 100 miles long. On a sampling day the route would be covered once each direction, so the sampling vehicle will travel the route twice during one day. The sampling shall typically begin at 10:00 AM and terminate at 6:00 PM, local time. Continuous measurements shall be made for ozone, NO_x, total nonmethane hydrocarbons, methane, SO₂ and CO. On a sampling day the route to sample shall be decided in the morning prior to departure from the Pickle Research Center headquarters and be based on the winds forecast for the day and ozone levels forecast for the day. Approximately five sampling days shall be in the time period from late May/early June.

Deliverable: The performing party shall deliver a report detailing the sampling results. The report will describe the sampling collection and lab processes 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.

Deliverable Date: August 1, 2011

Cost: \$23,000

Task 3: Emissions Inventories Improvement

3.1 The Performing Party shall implement the following emissions inventory improvement projects:

Project 1: Heavy-Duty Extended Idling

The Performing Party shall review the Truck Idling portions of the 2008 National Emissions Inventories provided for each area by the TCEQ. The Performing Party believes it can provide additional or more detailed emissions inventory input at a sub-county level of analysis. The Performing Party shall provide inputs that can be used for estimation of extended idling emissions for the combination long-haul truck category, which is the only source use type within the current version of MOVES for which extended idling emissions can be estimated. This vehicle category is more commonly referred to as diesel-powered five-axle "eighteen-wheelers", but other four-axle and six-axle configurations are also included in this category. The primary inputs needed by MOVES for extended idling estimation are source hours operating (SHO) in extended idling mode. For the purposes of developing a comprehensive extended idling inventory for the area, the following data sets shall be needed: known locations where regular extended idling activity occurs from these heavy trucks; the street address and latitude/longitude of these locations; the total number of available truck parking places; and number of trucks idling by hour of day and type of day at each location. An acceptable extended idling data set shall include number of idling trucks at each location for the two day types of Weekday (Monday-Friday) and Weekend (Saturday-Sunday), along with the three time periods of morning, daytime, and night. For data collect on weekdays, the morning and daytime periods will include observations during local "rush hour" periods to be consistent with how travel demand modeling is conducted. On-

road emission inventories for the area are not yet available with the MOVES model and it is not expected that such inventories will become available during the term of this work plan. Since EPA has required that States begin using the MOVES model for on-road inventory development, the Performing Party shall not use any on-road emission inventories developed with the MOBILE6.2 model. The Performing Party shall not use the simplified extended idling emission estimation procedure outlined by EPA for use with MOBILE6.2 in the January 2004 "Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions in State Implementation Plans and Transportation Conformity". As a starting point, the Performing Party may rely on the data that are reported in the phase one and phase two heavy-duty diesel vehicle idling activity and emissions studies available at http://www.tceq.state.tx.us/implementation/air/airmod/project/pj_report_mob.html. The idling survey data collected shall be provided in an organized electronic format that can be readily incorporated into on-road inventory development with the MOVES model. It is expected that the results of any extended idling data collection efforts will be used by the Texas Transportation Institute for development of on-road emission inventories with the MOVES model.

Projects 2 (Construction and Mining Equipment), 3 (Agricultural Equipment), and 4 (Lawn and Garden Equipment)

The Performing Party shall implement emissions inventory improvements for the construction and mining equipment, agricultural equipment, and lawn and garden equipment categories of non-road sources. The Performing Party has reviewed the 2008 NEI estimates for non-road categories and has determined that the Construction and Mining Equipment, Agricultural Equipment, and Lawn and Garden Equipment categories are suitable categories for improvement. The current non-road inventory development inputs are contained within the Texas NONROAD (TexN) model that relies on a graphical user interface (GUI) and MySQL database to run the latest version of EPA's NONROAD model for any calendar year from 1970-2050. It is expected that any changes that the Performing Party may have for the local area will be for the equipment population estimates available within TexN. An essential part of the deliverables for this task shall be electronic data files that can be easily used by TCEQ staff to update one or more of the following TexN database tables: l_population_main, l_population_years, and/or sceninput_population. The specific fields used by these tables include source category code (SCC), diesel construction equipment (DCE) subsector, horsepower bin, useful life, county/FIPS code, calendar year, etc. Since the Performing Party will provide equipment population updates for a single calendar year, the TCEQ will assume that the existing growth estimates within TexN are valid for both backcasting and forecasting within the 2006-2030 calendar year range. Any submission that does not contain the appropriate TexN inputs to replicate the non-road inventory changes will be deemed incomplete by TCEQ. The current version of TexN is the 1.5 release. For the purposes of this task, the Performing Party shall rely on the latest version available as of January 31, 2011.

Projects 5: Graphic Arts

The Performing Party reviewed the Graphic Arts portions of the 2008 National Emissions Inventories provided for each area by the TCEQ. Graphic Arts contribute about 2 percent of the area's VOC emissions. The Performing Party believes it can provide additional or more detailed emissions inventory input at a sub-county level of analysis, including locations, hours of operation, and compliance levels. Performing Party staff will coordinate with appropriate TCEQ staff to develop a more detailed inventory preparation plan prior to initiating data collection and reporting for this project.

Any additional projects shall require prior approval from the TCEQ.

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 deliverables shall also contain the appropriate "upstream" inputs that TCEQ can incorporate into its EPS3 processing efforts for photochemical model input. 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: August 1, 2011

Cost: \$75,000

- 3.2 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: \$15,000

- 3.3 The Performing Party shall work with the TCEQ to improve the spatial and/or temporal allocation of emissions for the 2006 base case and 2008 baseline scenarios. It is expected that the electronic deliverables from Tasks 3.1 and 3.2 shall contain the appropriate "upstream" inputs that TCEQ can incorporate into its EPS3 processing efforts for photochemical model input. It is very difficult and impractical to properly incorporate either "mid-stream" or "downstream" inputs into TCEQ's EPS3 processing efforts. Mid-stream examples that would not be very useful include EPS3 input files in the Area and Mobile Source (AMS) format. Downstream examples that would not be very useful include EPS3 output files that are ready for photochemical model input. Examples of EPS3 files that would be very useful include electronic surrogates for the spatial and/or temporal allocation of emissions. Such inputs are typically used with the EPS3 TMPRL and GRDEM modules. Unless authorized by TCEQ, no work shall occur on future case emission inventories because the precise future years are unknown at this time. Files shall be provided in an electronic format appropriate for use with EPS3 modules such as TMPRL or GRDEM.

Deliverable: The Performing Party shall assist the TCEQ staff in preparing improved local emissions inventory information for entry into photochemical modeling emissions inventories.

Deliverable Date: August 1, 2011

Cost: \$13,000

Task 4: Photochemical Modeling

- 4.1 During the Phase II period (Effective date 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), and/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 shall be the primary responsibility of the Performing Party. Steps 4, 5, and 6 shall 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 strongly 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 for this subtask.

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: August 1, 2011

Cost: \$86,000.

- 4.2 The Performing Party will perform appropriate photochemical modeling for its 8-Hour O3 Flex Agreement. Modeling of the region's significant emission sources, including planned projects (e.g., transportation and large construction projects such as the planned Formula 1 racetrack, etc.), will be conducted to evaluate potential new emission sources, revised emissions estimates for sources, and/or to evaluate possible emission reduction scenarios for Austin Energy, Texas Lehigh or other major sources or

source categories for minimizing local ozone production on predicted high ozone days as necessary for the Austin area under the 8-Hour Ozone Flex agreement. This modeling will use of Anthropogenic Precursor Culpability Assessment (APCA) analysis or other model results, to determine source culpability and evaluate possible mitigation measures for predicted high ozone day emission reduction strategies. Use of "zero-out" runs is strongly discouraged for these modeling efforts. As part of this task the Performing Party may analyze those ozone reduction measures or scenarios that meet the following conditions:

1. The geographic applicability of the control strategy is limited to the Performing Party's program area.
2. The control strategy can be implemented on a voluntary basis or by local political subdivisions using their current legal authority.

Deliverable: The performing party shall prepare a report on its photochemical modeling activities through July 2011. The report shall describe any modeling activities undertaken to assess potential ozone emission reduction strategies. Modeling assessments will include time-of day reductions, location-specific reductions and predicted high ozone day reductions. Emphasis will be on determining the most cost effective reductions. The report shall also document quality assurance or model validation activities. At the discretion of the TCEQ, the Performing Party shall provide the TCEQ with complete model inputs and model outputs (e.g., CAMx output files and post-processing outputs for performance evaluation and attainment demonstration). The report will be formatted as a technical support document suitable for inclusion in a SIP.

Deliverable Date: August 1, 2011

Cost: \$20,000

Task 5: Outreach

- 5.1 The Performing Party shall support and facilitate stakeholder participation in the performing party's air quality planning activities and conduct outreach to stakeholders and the public. Planned outreach activities include (but are not limited to):
- Sponsoring and facilitating quarterly Clean Air Coalition (CAC) meetings
 - Sponsoring and facilitating monthly Clean Air Coalition Advisory Committee (CACAC) meetings
 - Participation in Commute Solutions meetings

- Participation in air quality planning activities of CLEAN AIR Force, a local non-profit organization dedicated to air quality in the Austin area, including providing technical support to the CLEAN AIR Force Technical Advisory Committee
- Plan and participate in meetings with local officials and other stakeholders to provide air quality program status updates and solicit input into air quality planning activities.
- Sponsoring and planning public outreach through broadcast media, news media, educational material, and events.
- Conduct outreach efforts to local industries and employers to participate in voluntary ozone reduction efforts such as the Clean Air Partners program, and to commit to take preventative action on ozone watch days.
- Maintain and update the CAPCOG air quality website and anti-idling website (www.engineoff.org) in order to provide resources for public and stakeholder involvement in air quality planning and information on air quality issues. The Grant Recipient shall make a good faith effort to meet State of Texas guidelines for accessibility located at: <http://www.dir.state.tx.us/standards/srrpub11-accessibility.htm>.

Deliverable: The Performing Party shall document its activities and meetings with meeting summaries and outreach material funded by this grant in the monthly progress reports. The monthly report will also include details of web traffic and any other quantifiable measures of these outreach efforts.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 6 of this work plan

Cost: \$67,500

5.2 The Performing Party shall provide financial and staff support for the Commute Solutions Program of Central Texas. Commute Solutions is a voluntary trip reduction program that was created to address the need to reduce congestion, improve air quality and promote energy conservation in Central Texas. Commute Solutions is made up of Coalition Partners from regional businesses and government entities. The Partners are: CAMPO, TxDOT, Capital Metro, City of Austin, and Travis County, LCRA, CARTS, Downtown Austin Alliance, Texas Department of Insurance, Clean Air Force, TCEQ, CAPCOG, and AISD. The Performing Party's focus for support shall be towards program efforts that reduce emissions from single-occupant vehicles traveling in the Austin-Round Rock MSA. These efforts will include improvements to the regional rideshare program and Web site to encompass a broader scope of alternative transportation offerings (e.g. bus, commuter rail, etc.) and include options for program incentives to encourage participation. These improvements are necessary to make information about

all alternative transportation options available in one easy to access location and encourage utilization of the program.

More information about the Commute Solutions Program is available at <http://www.commuterolutions.com/>.

Deliverable: Monthly implementation status reports submitted by contractors for grant-supported emission reduction programs, utilization statistics from rideshare Web site, and/or staff discussion of implementation support activities included in the monthly grant report.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 6 of this work plan.

Cost: \$15,500

TASK 6: Administrative Activities

6.1 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: \$57,570

- 6.2 Provide for program support infrastructure which includes office space rent, telephone, data services, printing, information technology, geographic information services, accounting, personnel and payroll services and CAPCOG indirect charges.

Deliverable: Monthly program status/work plan implementation reports; Financial Status Reports along with documentation for expenditures and other appropriate accounting records; Contract and work plan amendments as necessary to reflect changed priorities or unforeseen requirements.

Deliverable Date: A summary of activity relating to task 6.1 will be included in the monthly reports due on the tenth day of each month.

Cost: \$186,000

Task 7: 8-O3 Flex Program Air Quality Planning Activities

The 8-hour Ozone Flex Program (8-O3 Flex) for the Austin region is an agreement signed by EPA, TCEQ and local governments to continue support for emission reduction measures initiated under the Early Action Compact and to provide planning and assessment necessary for the program to successfully address ozone problems through 12/31/2013. The 8-O3 Flex is considered by local officials to be the region's blueprint for achieving necessary ozone emission reductions to meet public health-based standards and is expected to remain in place until the end of 2013 or such time as TCEQ and EPA have a nonattainment SIP in place for the region. The 8-O3 Flex includes dynamic planning commitments to evaluate performance of implemented measures and make improvements where needed to address emissions growth or increases in measured ozone.

- 7.1 The Performing Party shall follow through on several measures committed to in the 8-O3 Flex agreement which require staff time for implementation assistance to be successful. These subtasks include coordination with local governments to insure heavy duty idling restrictions are implemented by all signatories with the requisite MOAs and enforcement plans. Also included is technical and program assistance provided to local governmental entities on effective implementation of voluntary commitments such as clean equipment and fuels procurements, energy conservation measures, diesel equipment repower and replacement, Clean Air Partners Program, Clean Cities Program, and school bus idle reduction and retrofit commitments funded with federal grants.

Deliverable: Monthly implementation status reports submitted by contractors and/or staff. discussion of implementation support activities included in the monthly grant report

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 6 of this work plan.

Cost: \$49,450

7.2 The Performing Party shall continue to meet 8-Hour O3 Flex requirements for a continuing planning process, including maintenance for growth assessments committed to in Section 4.3 of the 8-O3 Flex MOA. . The Performing Party shall monitor permit applications and other sources for proposed new or expanding public construction projects, business or industrial operations in the Austin or adjacent regions. Monitoring consists of identification of new or expanding plants, verification of building schedules with anticipated dates of startup, and conducting emission inventories. Where appropriate, the Performing Party shall work with identified new or expanding businesses, industries or large construction projects by providing assistance, outreach materials, and information on voluntary control strategies designed to help mitigate proposed emissions increases. This will include an impact analysis under the existing and new ozone standard as appropriate. The Performing Party shall develop annual reports required by the 8-hr O3 Flex Plan including developing participant surveys, updating monitoring analysis, and performing technical analysis for continued attainment planning.

Deliverable: 8-Hour Ozone Flex Program Report. 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: June 30, 2011

Cost: \$34,000

Attachment C