<center>**DTP Work Program Elements for CO_2 Analysis**</center>

Task 1: (Details shown as Attachment A)

- Redo CO_2 emissions inventory for years 2002, 2005, 2010, 2012, 2020, and 2030.
    o 2008 CLRP conformity analysis network and land use will be used for the new emissions inventory.
    o 2005 and 2012 travel demand will be developed using an interpolation technique and the 2002 and 2009 travel demand network will be used for developing 2005; 2010 and 2020 travel demand network for 2012.
    o E.H. Pechan interface along with Mobile 6.2 will be used for estimating CO_2 inventories and factor them to obtain Green House Gas equivalents.
    o Final numbers will be published for 2005, 2010, 2012, 2020, and 2030.

Due date: December 2008.

Task 2:

- CO_2 Reduction strategy development
    o Staff will review the TPB Scenario Study and the Climate Change Committee report recommended CO_2 reduction strategies and assign specifics to them so they could be analyzed under the following three broad categories:
        A. Fuel efficiency (CAFÉ, CALLEVII)
        B. Fuel Carbon Intensity (alternative fuels, ethanol)
        C. Travel Efficiency
            i. VMT reduction (Smart growth/land use) -sketch planning
            ii. Travel/VMT reduction (TDM strategies)
            iii. Operational efficiency (TSM, Signal, Incident Management)
    The re-specified strategies will be reviewed and finalized in consultation with the Travel Management Subcommittee during their October 21, 2008 meeting.

        D. Analyze CO_2 Reduction Strategies
            a. The re-specified strategies will be analyzed using appropriate tools and the results will be reviewed by the Travel Management Subcommittee before they are finalized and presented to the policy committees.

Due date: June 2009

Task 3:
                Scenario analysis
                    a. Network development and travel demand modeling of two scenarios
                    b. Emissions from the above

Due date: June 2009

CO2 Analysis Work Program Schedule

	October 2008	November 2008	December 2008	January 2009	February 2009	March 2009	April 2009	May 2009	June 2009
Task 1: Redo CO2 Emissions Inventory		▓▓▓	▓▓▓						
Task 2: Strategy Development and Analysis	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓
Task 3: Scenario Analysis	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓	▓▓▓

ATTACHMENT A

DETAILS OF TASK 1

I. **Travel Demand** – use of travel demand data from air quality conformity assessment of 2008 CLRP and FY2009 TIP (scheduled for adoption on November 19, 2008)

II. **Emissions Factors** – use of Mobile6.2-generated CO_2 emissions rates (reflects 25 mpg CAFÉ standards)

    a. CO_2
    b. Total GHG

III. **Initial Inventories**

    a. Prepare plan assessment years: 2002, 2010, 2020, 2030
    b. Additional 'Climate Change' years:
        1. Network-based: 2005
        2. Interpolation-based: 2012

IV. **Official Baseline Inventories**: CAFÉ standard of 35 mpg by 2020: 2012 through 2030

    a. Use 'initial' inventories as pivot
    b. Apply consultant spreadsheet approach to develop reduction factors for LDVs and LDTs
    c. Apply reduction factors to yield baseline numbers for each forecast year

V. **Documentation**
    a. Summarize technical methods in a report
    b. Present to committees