

**ITEM 9 - Action**  
November 17, 2010

Approval of Air Quality Conformity Determination for the 2010  
CLRP and FY 2011-2016 TIP

**Staff**

**Recommendation:** Adopt Resolution R5-2011 finding that the 2010 CLRP and FY 2011-2016 TIP conform with the requirements of the Clean Air Act Amendments of 1990.

**Issues:** None

**Background:** At the October 20 meeting, the Board was briefed on the air quality conformity analysis for the 2010 CLRP and FY 2011-2016 TIP. The draft air quality conformity assessment was released for public comment on October 14, and the public comment period ended on November 13.

TPB R5-2011  
November 17, 2010

**NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD  
777 North Capitol Street, N.E.  
Washington, D.C. 20002**

**RESOLUTION FINDING THAT THE 2010 CONSTRAINED LONG RANGE PLAN AND  
THE TRANSPORTATION IMPROVEMENT PROGRAM FOR FY 2011-2016  
CONFORM WITH THE REQUIREMENTS OF  
THE CLEAN AIR ACT AMENDMENTS OF 1990**

**WHEREAS**, the National Capital Region Transportation Planning Board (TPB) has been designated by the Governors of Maryland and Virginia and the Mayor of the District of Columbia as the Metropolitan Planning Organization (MPO) for the Washington Metropolitan Area; and

**WHEREAS**, the U.S. Environmental Protection Agency (EPA), in conjunction with the U.S. Department of Transportation (DOT), under the Clean Air Act Amendments of 1990 (CAAA), issued on November 24, 1993 "Criteria and Procedures for Determining Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Funded or Approved Under Title 23 U.S.C. or the Federal Transit Act," and, over the years, subsequently amended these regulations and provided additional guidance, which taken together provide the specific criteria for TPB to make a determination of conformity of its financially Constrained Long Range Transportation Plan (CLRP) and Transportation Improvement Program (TIP) with the state implementation plans for air quality attainment within the Metropolitan Washington non-attainment area; and

**WHEREAS**, a work program was developed to address all procedures and requirements, including public and interagency consultation, and the work program was released for public comment on April 15 and approved by the TPB at its May 19, 2010 meeting; and

**WHEREAS**, on May 19, 2010, the TPB approved the major projects submitted for inclusion in the air quality conformity assessment for the 2010 CLRP and FY 2011-2016 TIP; and

**WHEREAS**, in each year's update of the CLRP between 2000 and 2004, the TPB has explicitly accounted for the funding uncertainties affecting the Metrorail system capacity and levels of service beyond 2005 by constraining transit ridership to or through the core area to 2005 levels; and

**WHEREAS**, as a result of the "Metro Matters" commitments for Metro's near-term funding, the transit ridership constraint to or through the core area was applied in the 2005 through 2008 CLRP conformity analysis using 2010 ridership levels rather than 2005 levels; and

**WHEREAS**, in October 2008 federal legislation was enacted to authorize \$150 million per year for 10 years in funding for WMATA's capital and preventive maintenance projects, and, the legislatures of Maryland, Virginia, and District of Columbia have taken steps to identify the required dedicated local matching revenues and this additional revenue was assumed to be available in the financial plan for the 2010 CLRP and the transit ridership constraint to or through the core area was applied in the 2010 CLRP conformity analysis using 2020 ridership levels for 2030 and 2040; and

**WHEREAS**, on October 14, 2010, the draft Air Quality Conformity Determination of the 2010 CLRP and FY 2011-2016 TIP was released for a 30-day public comment period and inter-agency review; and

**WHEREAS**, the analysis reported in *Air Quality Conformity Determination of the 2010 Constrained Long Range Plan and the FY 2011-2015 Transportation Improvement Program for the Washington Metropolitan Region*, dated October 14, 2010 demonstrates adherence to all mobile source emissions budgets for volatile organic compounds, nitrogen oxides, carbon monoxide and fine particle emissions (PM<sub>2.5</sub>), and demonstrates that PM<sub>2.5</sub> emissions meet the requirement that such emissions are not greater than 2002 levels, meets all regulatory, planning and interagency consultation requirements, and therefore provides the basis for a finding of conformity of the plan and program with the requirements of the CAAA; and

**WHEREAS**, in the attached letter of November 10, 2010, the Metropolitan Washington Air Quality Committee (MWAQC) states that it has reviewed the *Air Quality Conformity Determination of the 2010 Constrained Long Range Plan and the FY 2011-2016 Transportation Improvement Program for the Washington Metropolitan Region*, and that the analysis demonstrates that all required emissions tests are being met.

**NOW, THEREFORE, BE IT RESOLVED THAT** THE NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD determines that the 2010 Constrained Long Range Plan and the Transportation Improvement Program for FY 2011-2016 conform to all requirements of the Clean Air Act Amendments of 1990.

# **Metropolitan Washington Air Quality Committee**

Suite 300, 777 North Capitol Street, N.E. Washington, D.C. 20002-4239 202-962-3358 Fax: 202-962-3203

November 10, 2010

Honorable David Snyder, Chair  
National Capital Region Transportation Planning Board  
777 North Capitol Street, NE  
Washington, D.C. 20002

Dear Chair Snyder:

The Metropolitan Washington Air Quality Committee (MWAQC) has reviewed the October 20, 2010 Draft Air Quality Conformity Assessment for the 2010 CLRP and FY 2011-2016 TIP. The analysis demonstrates the proposed transportation plan meets the interim emissions tests for the PM<sub>2.5</sub> annual standard and the approved motor vehicle emissions budgets for both the 1-hour and 8-hour ozone standards. The analysis also demonstrates conformance to the most recent proposed motor vehicle emission budgets for the PM<sub>2.5</sub> annual and 8-hour ozone standards even though these budgets are not yet applicable.

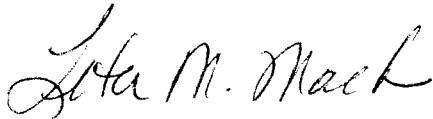
Conformity of the estimated emissions from the 2010 CLRP/FY2011-2016 TIP is being tested for the 8-hour ozone standard against the 1-hour ozone mobile budgets as well as the 2008 8-hour ozone reasonable further progress (RFP) mobile budgets contained in the region's approved SIPs. The 2008 Reasonable Further Progress (RFP) motor vehicle budget became effective on September 21, 2009. For PM<sub>2.5</sub>, the conformity analysis passes the "build no greater than 2002" interim emissions test the region had previously selected. We commend the National Capital Region Transportation Planning Board (TPB) for its contribution to clean air through compliance with the proposed motor vehicle emissions attainment budgets in the 8-hour ozone SIP and the annual PM<sub>2.5</sub> SIP submitted to EPA in 2007 and 2008. This commitment is consistent with the region's air quality attainment plan and vital to the region's progress toward attainment and maintenance of these standards.

MWAQC realizes there will be substantial reductions in transportation emissions occurring by 2030 that result in transportation emissions well below the current maximum allowable emission levels. MWAQC notes that the conformity analysis now includes a new out-year milestone year (2040) and that VOC and PM<sub>2.5</sub> emissions between 2030 and 2040 actually show a slight increase. This occurs because by 2030, federally mandated vehicle emission control programs will have fully penetrated the fleet and achieved their maximum benefit, and the ultimate increase in emissions reflects growth in the region overtaking the effects of our current control programs. Through the Ozone Transport Commission, Maryland, Virginia and the District of Columbia are urging EPA for new federal emission control programs to provide new approaches to reducing emissions in our future fleets. MWAQC also supports the need for new federal emission control programs and encourages continued investment in public transit, ride-sharing and transit-oriented development to enhance and expand such systems and programs to reduce future growth in single occupant vehicular trips and vehicle miles traveled.

As you are aware, the EPA is now considering whether to further tighten the recently promulgated more stringent National Ambient Air Quality Standards (NAAQS) for 8-hour ozone. When the region is designated as a nonattainment area under this tighter new standard, additional emission reductions will be needed across all sectors to meet this new more stringent standard. A new State Implementation Plan will be due to EPA three years after the nonattainment designation is finalized. Additionally the EPA has recently released a new motor vehicle emission model that could substantially affect emission estimates in the region even if there are no changes to the transportation network and/or actual emissions. All of these anticipated actions emphasize the need for planning to reduce future emissions in the region. We continue to strongly urge state and local governments to maintain their commitments to Transportation Emission Reduction Measures (TERMs) and other emission reduction measures to advance meeting the new tighter ozone and particulate matter standards as soon as possible.

Thank you for the opportunity to comment on the draft conformity analysis. We look forward to working closely with you on making further improvements to the region's air quality.

Sincerely,

A handwritten signature in black ink that reads "Leta M. Mack". The signature is written in a cursive, flowing style.

Hon. Leta Mach, Chair  
Metropolitan Washington Air Quality Committee

# **National Capital Region Transportation Planning Board**

777 North Capitol Street, N.E., Suite 300, Washington, D.C. 20002-4290 (202) 962-3310 Fax: (202) 962-3202

## MEMORANDUM

November 10, 2010

To: Transportation Planning Board

From: Jane Posey  
Senior Transportation Engineer

Subject: Air Quality Conformity Assessment for the 2010 Update of the Constrained Long Range Plan (CLRP) and FY2011-2016 Transportation Improvement Program (TIP)

## INTRODUCTION

This memo documents: (1) summary results of the air quality conformity assessment of the 2010 CLRP and the FY2011-2016 TIP with respect to ozone season and fine particle (PM<sub>2.5</sub>) pollutants, and wintertime carbon monoxide (CO), and (2) comments received and responses to comments upon the analysis. The results, based upon analyses contained in the technical report, Air Quality Conformity Determination Of The 2010 Constrained Long Range Plan And The FY2011-2016 Transportation Improvement Program For The Washington Metropolitan Region, were released for public comment and interagency consultation on October 14, 2010. The public comment period ended on November 13, 2010.

Conformity assessment criteria vary by pollutant. Tests include adherence to mobile source emissions budgets in the case of ozone season pollutants (VOC and NO<sub>x</sub>) and CO, and a demonstration that forecast year PM<sub>2.5</sub> (including both directly emitted PM<sub>2.5</sub> and precursor NO<sub>x</sub>) emissions are not greater than base year 2002 emissions. One hour ozone precursor mobile emissions budgets are taken from the Metropolitan Washington Air Quality Committee (MWAQC)'s Severe Area State Implementation Plan (SIP) (1-hour ozone non-attainment area) document, Plan to Improve Air Quality in the Washington, DC-MD-VA Region, February 19, 2004. In addition, in 2007 MWAQC completed the development of the 8-hour ozone SIP with new mobile emissions budgets, which also correspond to a different geographic area (relevant planning areas are shown in Exhibit 1). Similarly, in March 2008 MWAQC approved, and the state air agencies subsequently submitted to EPA, the region's PM<sub>2.5</sub> Attainment Plan. Adherence to both the 8-hour ozone and PM<sub>2.5</sub> budgets is also documented in this report, even though to date EPA has not yet acted upon them.

## BACKGROUND

On May 19, 2010 the TPB approved the scope of work and the project submissions for inclusion in the conformity analysis for the year 2010 update of the CLRP and FY2011-2016 TIP. Key technical inputs to the analysis included: Round 8.0 Cooperative Forecasts; the Version 2.2 Travel Demand

Model utilizing the new project submissions and reflecting updated transit service; and EPA's Mobile6.2 Emissions Factor Model.

Staff proceeded with the technical analyses described below to ascertain whether the draft plan and program would meet the specific conformity criteria.

## **WORK ACTIVITIES**

Technical work activities for the conformity assessment of the 2010 CLRP and FY2011-2016 TIP included the preparation of volatile organic compound (VOC), nitrogen oxide (NO<sub>x</sub>), PM<sub>2.5</sub>, and wintertime carbon monoxide (CO) emissions inventories for specified forecast years associated with the plan and program (forecast years: 2011, 2020, 2030 and 2040). While ozone season pollutants (VOC and NO<sub>x</sub>) and wintertime CO are inventoried for average weekday conditions, precursor NO<sub>x</sub> and direct PM<sub>2.5</sub> are inventoried to reflect emissions on a yearly total basis. Accordingly, staff applied seasonal adjustment factors to convert daily travel (annual average weekday traffic or AAWDT) to annual values.

These inventories address a primary conformity assessment criterion to demonstrate that emissions associated with the plan and program adhere to the established mobile source emissions levels. In anticipation of possible emissions increases associated with implementation of the plan and program, staff (in conjunction with the TPB Technical Committee and its Travel Management Subcommittee) conducted parallel analyses of committed and potential new transportation emissions reduction measures (TERM)s, and documented emissions benefits for each analysis year.

## **Plan Amendments and Program Elements**

There have been some new projects and changes advanced for the CLRP / TIP in this year's approval cycle. Attachment A presents an excerpt from the May 19, 2010 TPB item listing the major changes to the conformity project inputs since the Fall amendments to the 2009 CLRP and the FY2010-2015 TIP. It should be noted that many projects in the previous CLRP were removed this year due to budget constraints.

## **Land Activity Forecasts**

On January 21, 2010 COG's Metropolitan Development Policy Committee approved Round 8.0 Cooperative Forecast totals to be used for testing purposes in analysis of the CLRP and TIP. The Round 8.0 data, summarized in Attachment B, reflect not only the forecast small area land use distributions throughout the Washington area, but also the latest planning assumptions for areas outside the Washington region. For example, the Baltimore land use input to Round 8.0 reflects the Baltimore Metropolitan Council's 'Round 7-B' adopted figures, whereas their previous input to the COG Round 7.2A forecasts was their 'Round 7-A' figures.

The Round 8.0 Cooperative Forecasts are based on new national and regional econometric forecasts. When compared to the previous Round 7.2A Forecasts, the Round 8.0 Forecasts have fewer jobs and households in all forecast years. Job forecasts are 1.7 to 2.4 percent lower regionally in Round 8.0

than in Round 7.2A. Household forecasts are 1.3 to 2.0 percent lower regionally in Round 8.0 than in Round 7.2A. Decreases for some specific jurisdictions are dramatically higher. Summaries of percent change between Round 8.0 and Round 7.2A are included in Attachment B. Even with this change, however, the projected regional growth from 2005 to 2040 includes a 47 percent increase in jobs and a 43 percent increase in households.

## **Transit Fares**

WMATA has made two policy changes that affect transit fares. For Metrorail there is a price differential for those who use SmarTrip vs. those who use paper fare cards. There is also the addition of a surcharge for those who travel in the peak-of-the-peak. Metrobus users also pay a different fare for SmarTrip vs. cash. Most other transit providers in the region implemented fare increases this year also. These fare increases were incorporated in the travel demand inputs and had a significant affect on transit trips. Compared to the 2009 CLRP, the 2010 CLRP has 10 percent fewer transit trips in 2020, and 9 percent fewer transit trips in 2030.

## **Travel Modeling Process**

For this conformity analysis staff used TPB's travel demand model, Version 2.2. Using the Version 2.2 model, COG/TPB staff prepared travel demand forecasts for each of the required forecast years. Exhibit 1 presents the geographic areas for travel modeling and for emissions reporting for each non-attainment area. Exhibit 2 presents the resulting average weekday transit trips, vehicle trips, and vehicle miles traveled (VMT) results through time for each conformity analysis year, for the full modeled area.

## **Emissions Factors**

Staff developed motor vehicle emissions factors through execution of EPA's MOBILE6.2 emissions factor model. These rates for each pollutant, shown using Fairfax County data as an illustration in Exhibits 3 and 4, were developed following execution of the model in one mph speed increments, by jurisdiction, for each analysis year. The chart shows significantly reduced rates through time, primarily due to the impacts of having cleaner fuel and vehicles in the fleet. Exhibit 5 presents direct PM<sub>2.5</sub> emissions rates through time for each of the three seasons; data are arrayed in a bar chart since these emissions rates do not vary by vehicle speed.

## **Emissions Analyses**

### Mobile Emissions Inventories

#### *Ozone Season and Wintertime CO – Daily Emissions*

Prior to calculation of daily mobile source emissions, the above (AAWDT) travel forecasts produced through the travel demand modeling process were first factored by seasonal adjustments (a 1.05 ozone season factor or a 0.97 winter season factor) to yield VMT appropriate to each season being analyzed. Staff then applied the appropriate Mobile6.2 emissions factors to the travel demand



forecasts to prepare mobile source emissions inventories for each forecast year. These emissions results for ozone season pollutants are summarized in Exhibits 6 - 9 and indicate total VOC and NOx emissions for each analysis year. The charts show dramatic reductions throughout the period. Historical emissions reductions from the clean air act amendments 1990 base have been well documented in the past. 2040 VOC and NOx emissions represent about 13 percent and less than 10 percent, respectively, of their 1990 levels. The results reflect the impact of the cleaner fuel / fleet and related programs, in conjunction with slowing VMT growth rates through time.

The forecast year emissions estimates are somewhat lower than in recent analyses. This decrease in emissions reflects the effect of a decrease in vehicle miles traveled (VMT). This VMT decrease is associated with lower households and job forecasts in the Round 8.0 Cooperative Forecasts, as compared to Round 7.2A, and the removal of some highway projects from the 2010 CLRP.

### *PM<sub>2.5</sub> – Yearly Emissions*

To develop the yearly total PM<sub>2.5</sub> emissions, travel and emissions were estimated throughout the year by applying (three) seasonal factors to the primary travel data, followed by applying emissions rates for each of the seasons, and summarizing to obtain yearly totals. Direct PM<sub>2.5</sub> and precursor NOx emissions, shown in the Exhibits 10 and 11 bar charts, exhibit similar dramatic reductions through time despite increases in vehicle trips and VMT in the forecast years. These reductions are also largely attributable to Tier II vehicle standards, cleaner fuels, and the heavy duty engine rule, and continue to generate additional emissions reductions through time as fleet turnover replaces older vehicles / truck engines with much cleaner ones.

### *Plan and Program Emissions Versus Emissions Budgets*

Reference to Exhibits 6-11 provides a comparison of emissions levels associated with the CLRP and TIP to the maximum allowable for each pollutant. Net emissions for each forecast year are shown in comparison to emissions budgets, and are seen to be within the mobile budgets for all forecast years (including 8-hour ozone and PM<sub>2.5</sub> budgets not yet approved by EPA). Wintertime CO emissions (contained in a full technical report but not summarized here) follow these same general trends and are easily within the CO emissions budget level.

Exhibits 10 and 11 show that both direct PM<sub>2.5</sub> and precursor NOx emissions are much lower than base year 2002 conditions and are within the proposed mobile budgets, for all forecast years, satisfying this additional conformity assessment criterion for PM<sub>2.5</sub>. In view of the fact that estimated emissions are within the required mobile source emission levels for each pollutant, no additional transportation emissions reduction measures are required to demonstrate conformity.

### Net Emissions Analysis

The emissions inventory data contained in Exhibits 6-11 reflect total mobile source network and off-network emissions. However, there are also emissions benefits associated with certain other transportation programs and projects. These benefits, estimated on an off-line basis, are also creditable in conformity analyses. Attachment C represents a summary table of these transportation emissions reduction measures, or TERMS, which have been previously planned or programmed by the TPB. They are arrayed in a 'Tracking Sheet' format to document the implementation status of each, with part A of the table documenting ozone season and part B documenting PM<sub>2.5</sub> pollutants.

The summary result of these measures, shown as the bottom line for each section of the table, amounts to additional reductions in 2011 of better than 2 tons per day of VOC and almost 5 tons per day of NOx, and approximately 18 and 898 tons per year of direct PM<sub>2.5</sub> and precursor NOx, respectively. Only those projects which have been affirmed by the implementing agency as having been completed, or are on a realistic schedule towards implementation, are being credited in this emissions analysis. Combining the emissions results in Exhibits 6-11 with the additional reductions from TERMS would further improve the emissions margins for each pollutant.

## **COMMENTS / RESPONSE TO COMMENTS**

Comment: The Metropolitan Washington Air Quality Committee (MWAQC) provided written comment in its November 10, 2010 letter. Their letter notes that the proposed CLRP and TIP meet all mobile source emissions tests for conformity. They commend the TPB for its compliance with the proposed 8-hour ozone and annual PM<sub>2.5</sub> budgets. They recognize the substantial reduction in transportation emissions occurring by 2030, but note the slight increase between 2030 and 2040. They support the need for new federal emission control programs, and encourage continued investment in systems and programs that will reduce growth in single occupancy vehicle trips and vehicle miles traveled. The Committee points out that EPA has recently released a new motor vehicle emissions model and is considering whether to tighten the recently promulgated more stringent NAAQS for 8-hour ozone. The Committee notes that additional emission reductions will be needed to meet these new standards. They strongly urge state and local governments to maintain their commitments to TERMS and other emissions reduction measures.

Response: The TPB appreciates MWAQC's recognition that the air quality conformity analysis demonstrates that the 2010 CLRP and FY 2011-2016 TIP meet all of the required emissions tests. The TPB agrees with MWAQC on the need for new federal emissions control programs, as well as continued investment in public transit, ridesharing, and other programs to reduce VMT and single occupant driver trips. In the annual element of the TIP almost 50 percent of the funding in the region is programmed for transit, ridesharing, and bicycle/pedestrian projects. Funding levels are even higher for these types of projects in the CLRP. The TPB acknowledges the likely impact of more stringent NAAQS, and supports maintenance of commitments to TERMS and other emissions reduction measures.

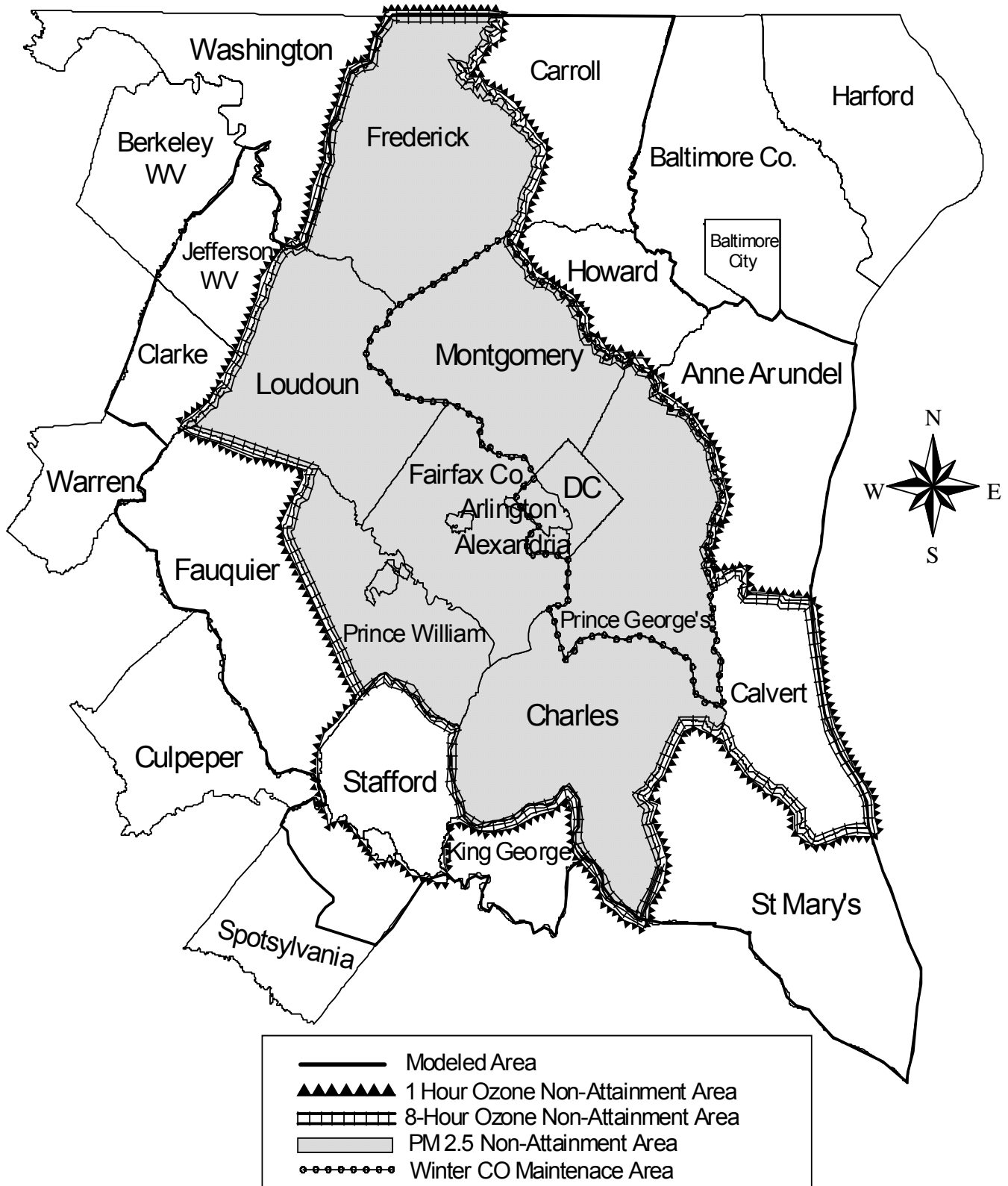
## **SUMMARY**

The analytical results described in this air quality assessment provide a basis for a determination by the TPB of conformity of the 2010 CLRP and the FY2011-2016 TIP.

Following: Exhibits 1-11  
Attachments A - C

# EXHIBIT 1

## Washington, D.C. - Maryland - Virginia Planning Areas



**Exhibit 2**  
**Travel Demand Summary**  
**Modeled Area Trips and Vehicle Miles Traveled (000's)**  
**Average Weekday Traffic (AWDT)**

|                      | <u>2002</u> | <u>2011</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> |
|----------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Transit Trips</b> | 1,055.7     | 1,096.7     | 1,378.2     | 1,517.0     | 1,632.4     |
| <b>Vehicle Trips</b> | 19,535.7    | 22,236.8    | 24,560.9    | 26,887.4    | 28,777.3    |
| <b>VMT</b>           | 145,504.9   | 160,327.0   | 177,817.0   | 190,672.5   | 199,813.8   |

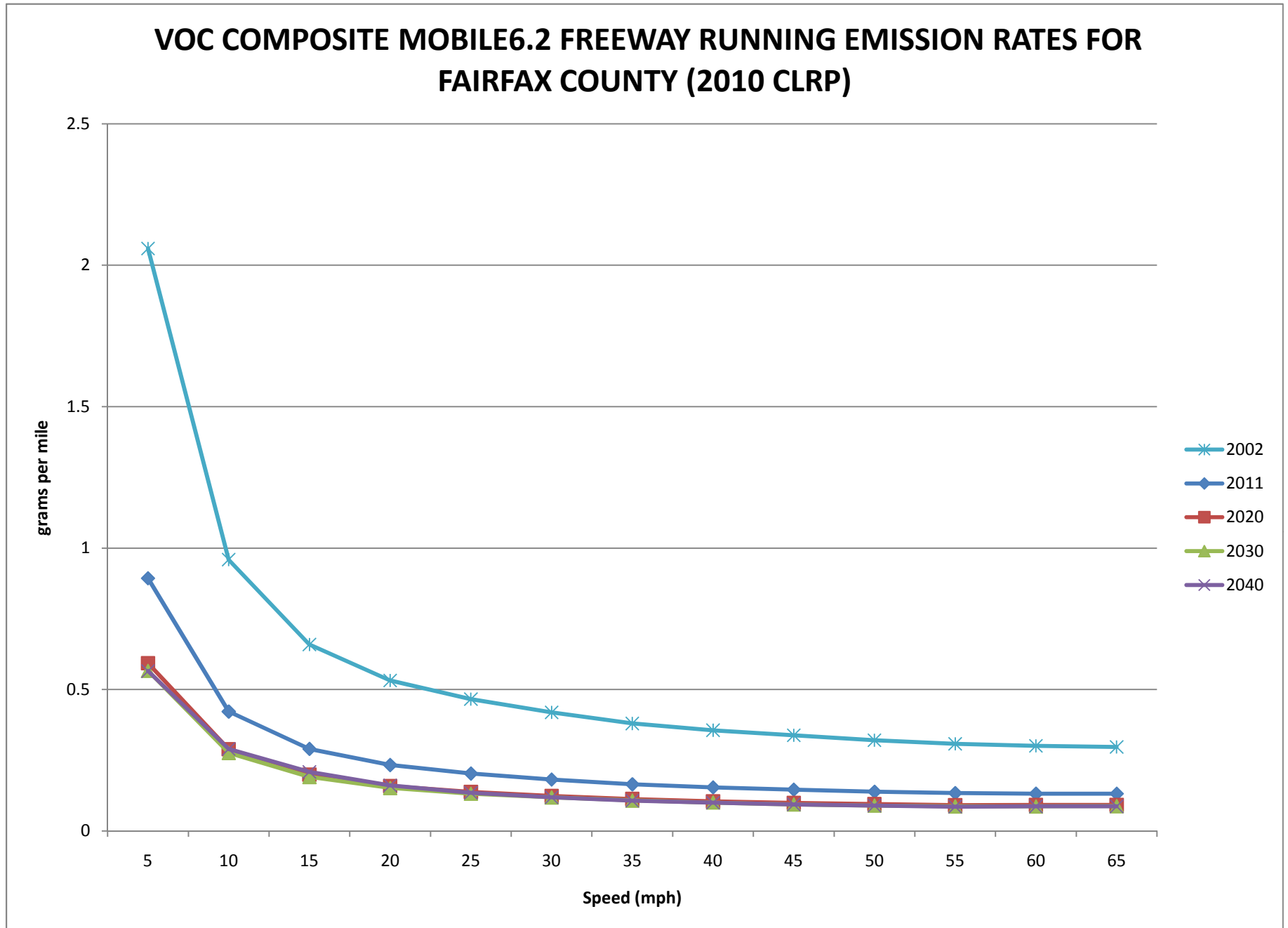
**Adjustment Factors to Convert AWDT to Appropriate Season:**

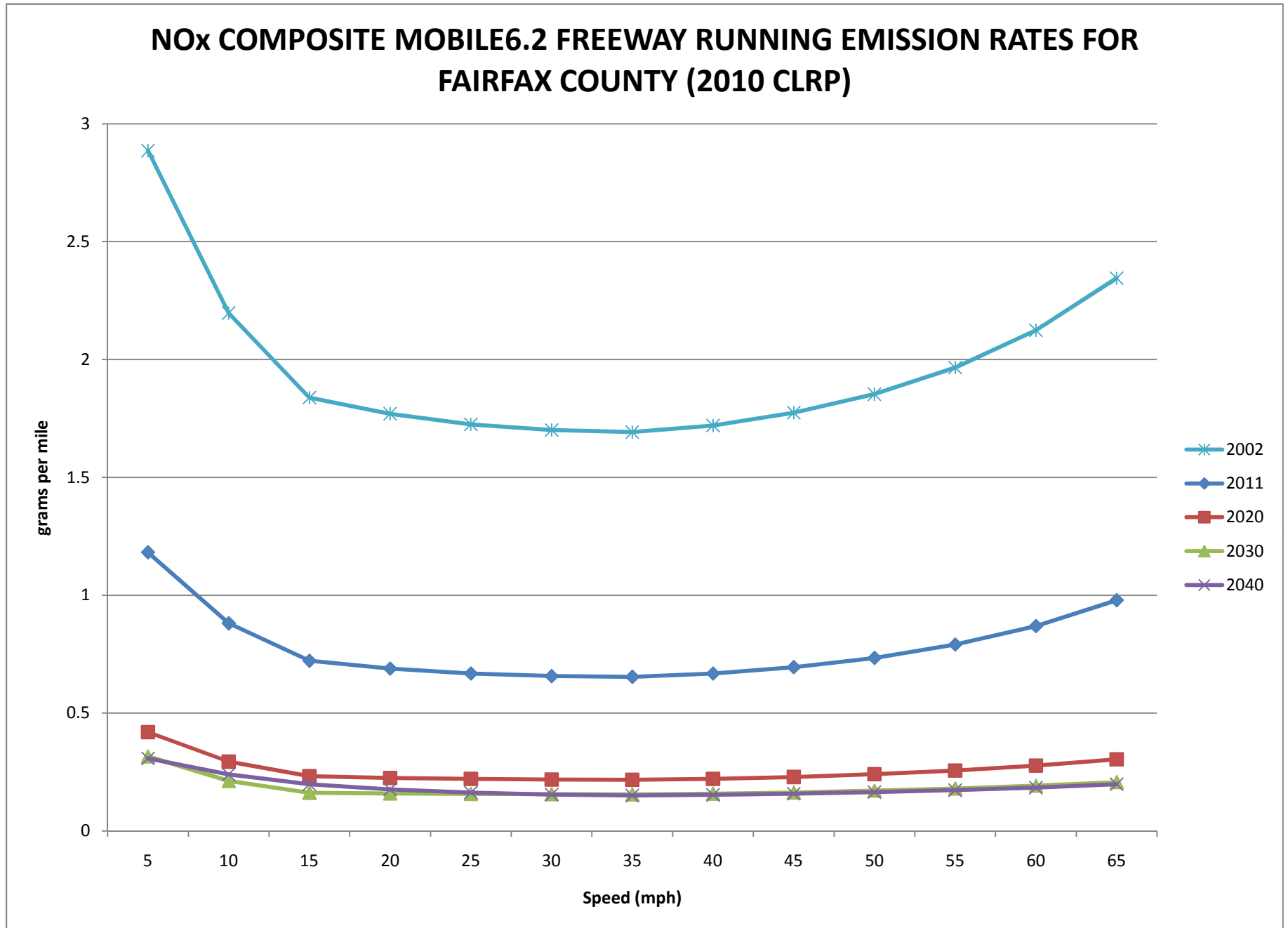
**Ozone Season AWDT: 1.05**

**Winter Season AWDT: 0.97**

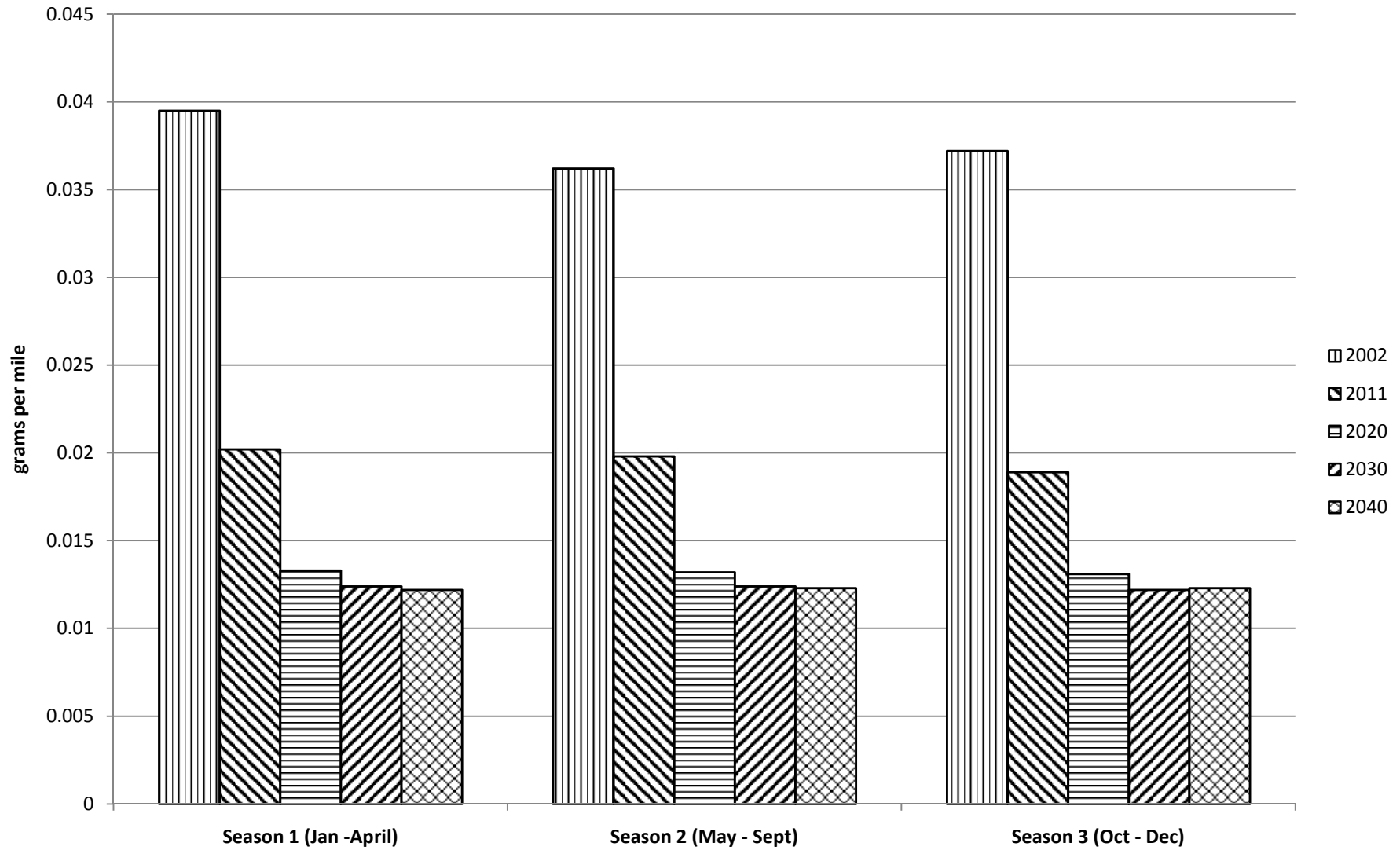
**PM2.5 Annual:**

| <b>Season (ADT)</b>  | <b>Factor</b> |
|----------------------|---------------|
| Season 1 (Jan- Apr)  | 0.9216        |
| Season 2 (May- Sept) | 0.9873        |
| Season 3 (Oct- Dec)  | 0.9282        |



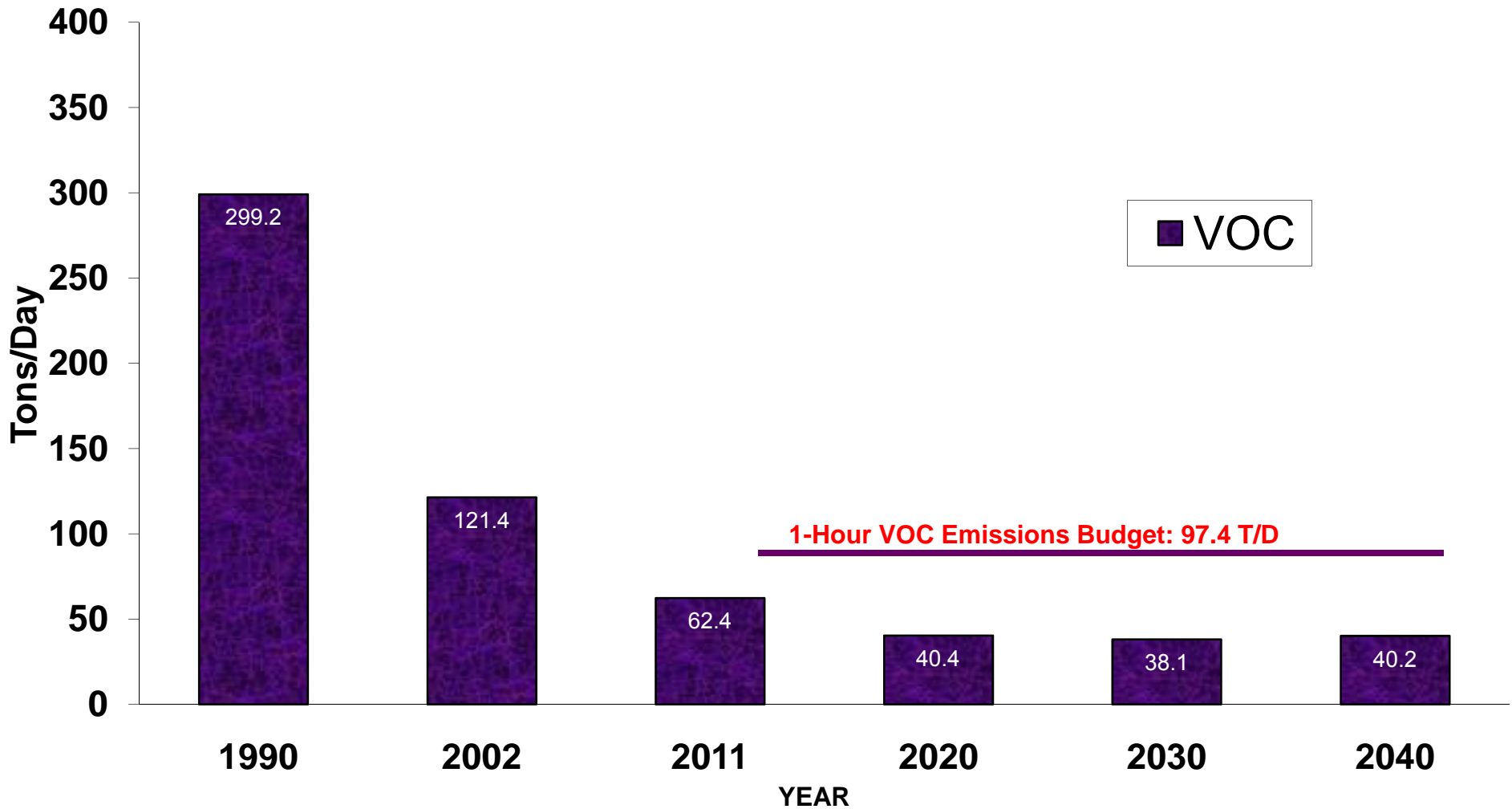


### Exhibit 5 DIRECT PM<sub>2.5</sub> EMISSION RATES FOR FAIRFAX COUNTY (MAJOR ROADS NETWORK)



# EXHIBIT 6

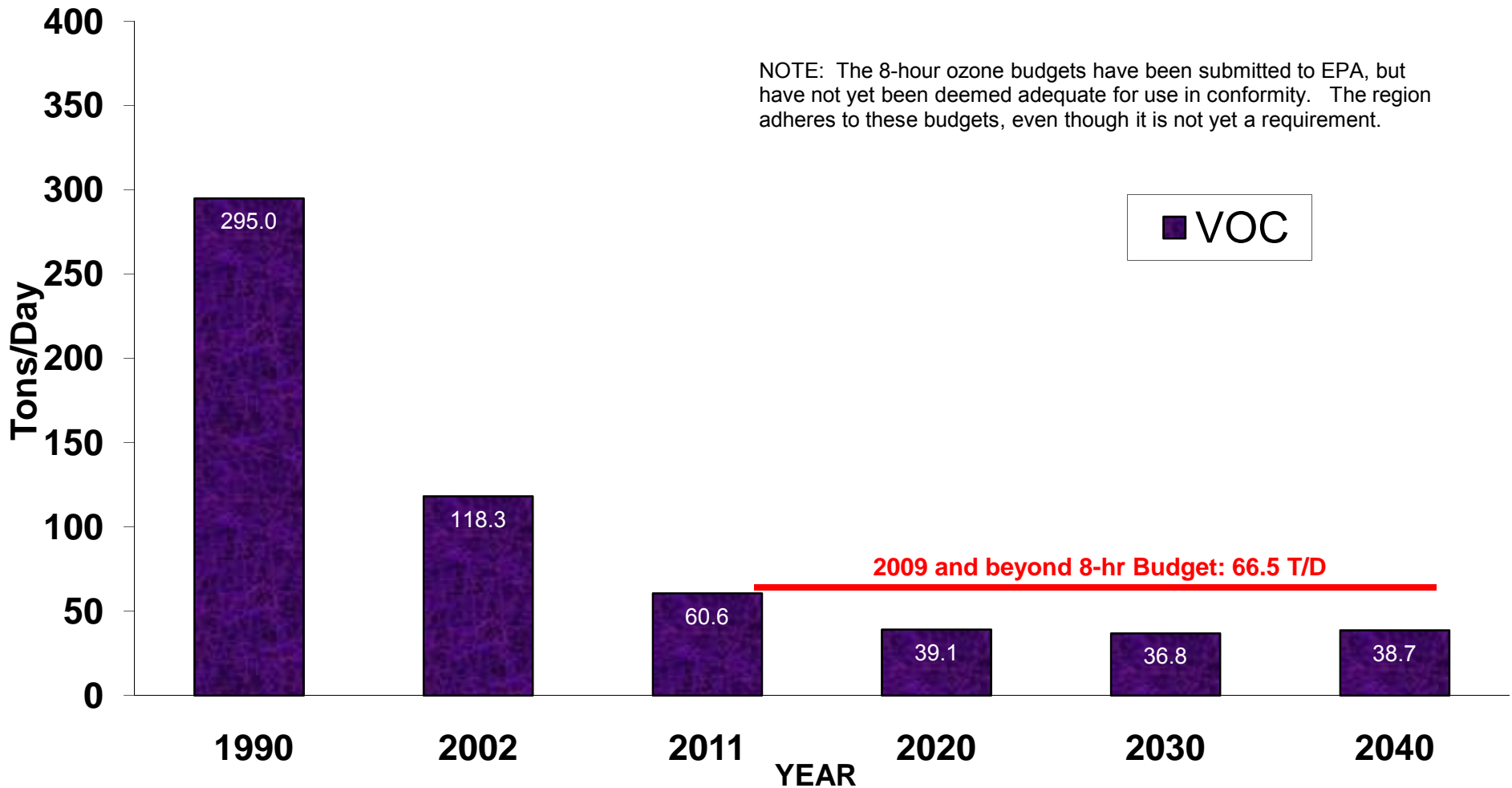
## Mobile Source VOC Emissions for the 1-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP





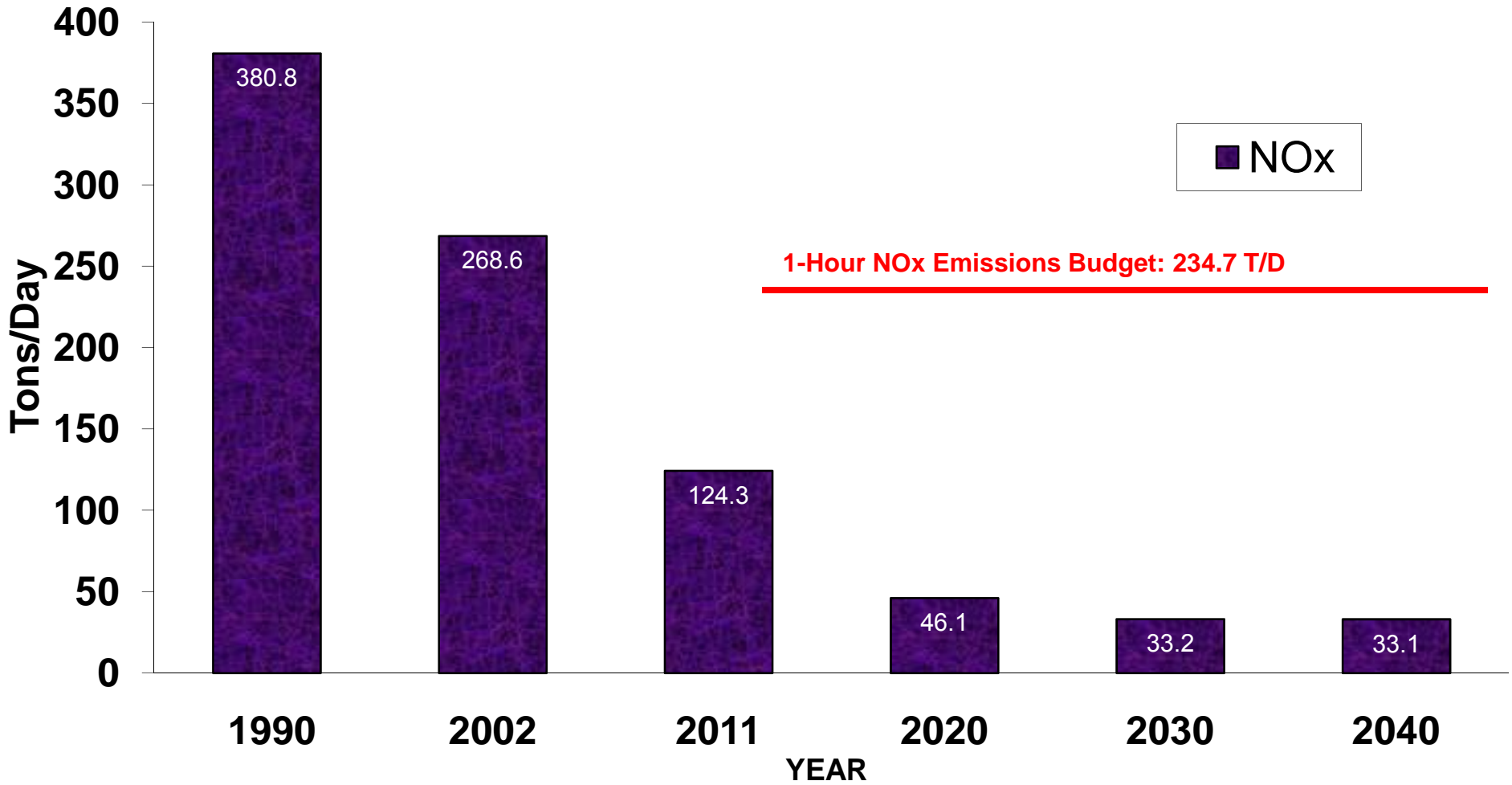
# EXHIBIT 7

## Mobile Source VOC Emissions for the 8-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP



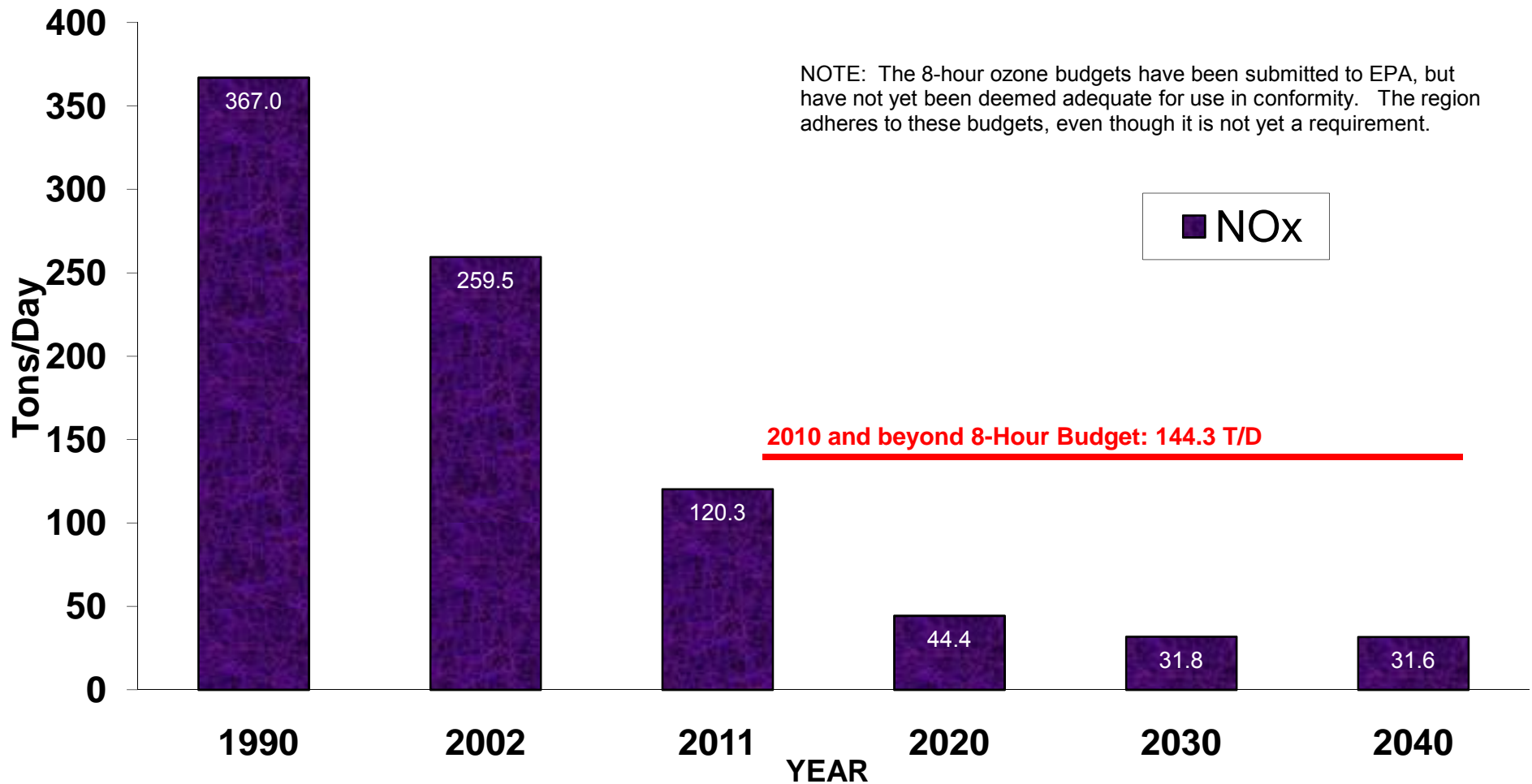
# EXHIBIT 8

## Mobile Source NOx Emissions for the 1-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP



# EXHIBIT 9

## Mobile Source NOx Emissions for the 8-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP

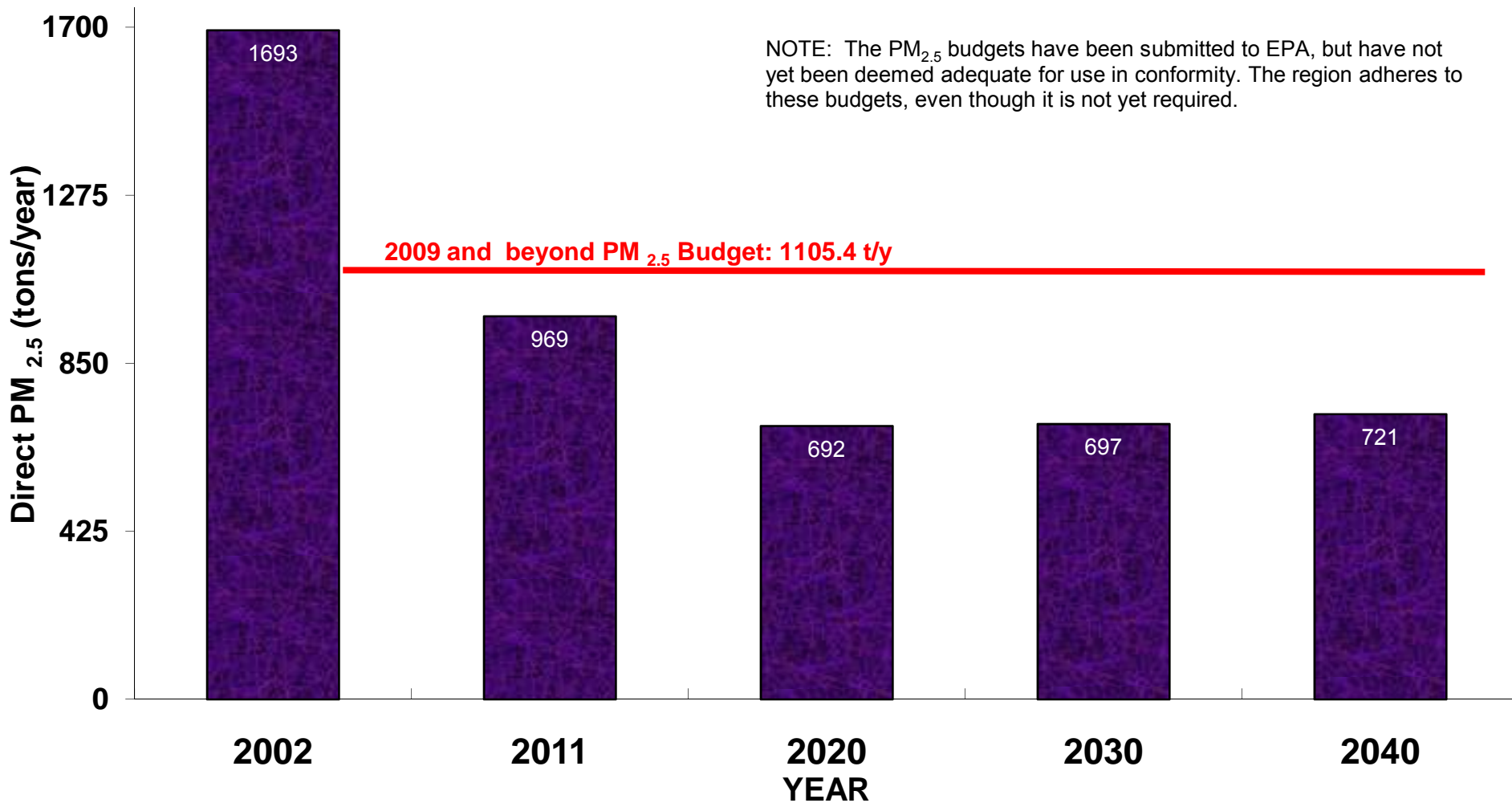


# EXHIBIT 10

## Mobile Source Emissions

### 2010 CLRP and FY 2011-2016 TIP

#### Direct PM<sub>2.5</sub>



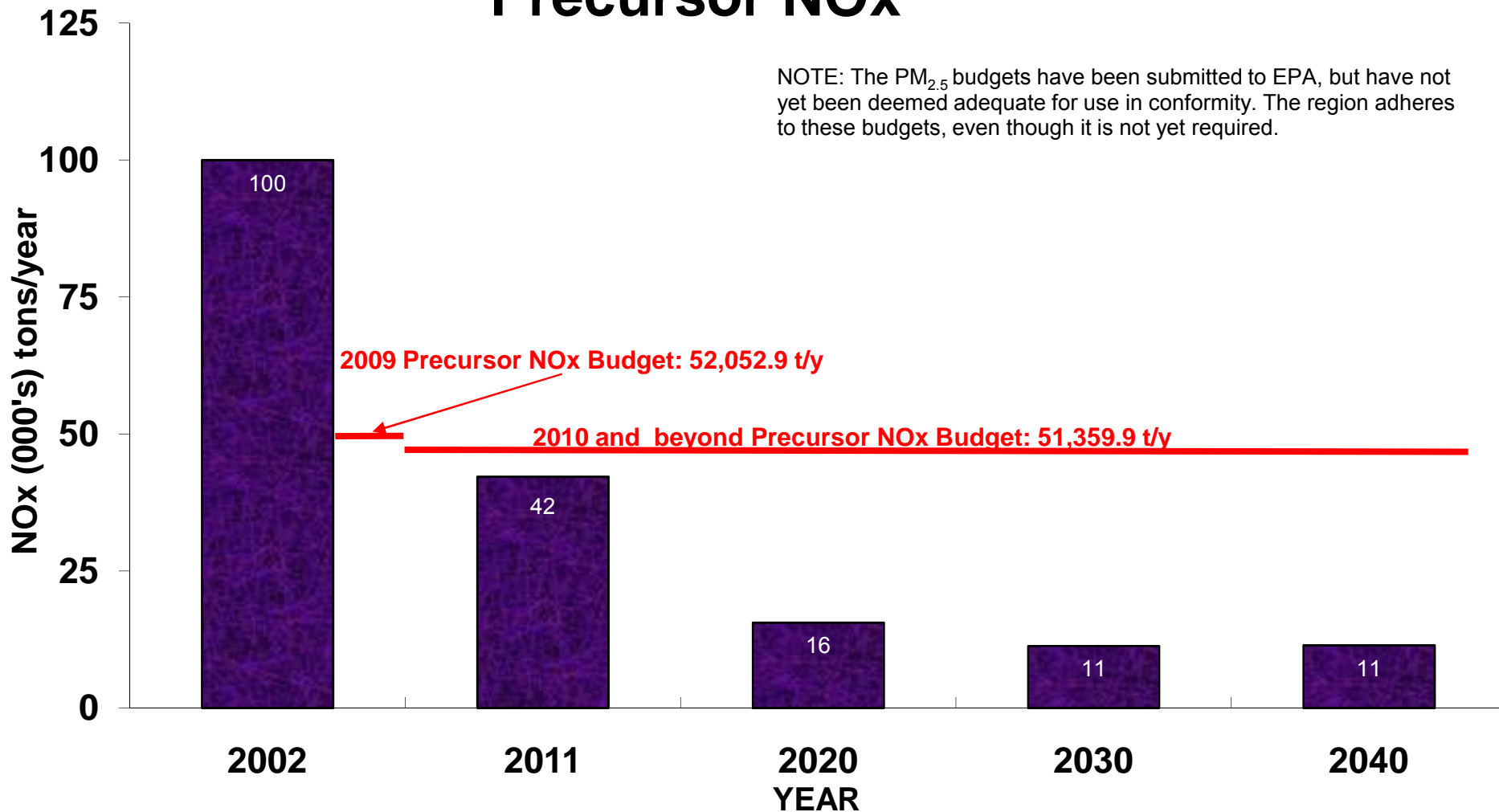
# EXHIBIT 11

## Mobile Source Emissions

### 2010 CLRP and FY 2011-2016 TIP

#### Precursor NOx

NOTE: The PM<sub>2.5</sub> budgets have been submitted to EPA, but have not yet been deemed adequate for use in conformity. The region adheres to these budgets, even though it is not yet required.



# **ATTACHMENT A**



# Significant Additions and Changes to The 2010 Update to the Financially Constrained Long-Range Transportation Plan



## Significant Additions to the 2010 CLRP

### DISTRICT OF COLUMBIA

#### 1. DC Streetcar Project

This project will build three new segments of a larger streetcar network that is currently being planned by the District Department of Transportation. These new segments will complement the initial Anacostia segment which was added to the CLRP in 2006 and is currently under construction. The streetcars will share a lane with automobile traffic and will run every 10 minutes during peak and off-peak periods. The three proposed segments are:



- a) Continuation of the Anacostia Line along Martin Luther King, Jr. Avenue SE from Howard Road SE to Good Hope Road SE (0.5 miles, Complete 2012)
- b) H Street/Benning Road NE from Union Station to Oklahoma Avenue (2 miles, Complete 2012)
- c) Benning Road NE from Oklahoma Avenue NE to 45<sup>th</sup> Street NE/Benning Road Metro Station (1.8 miles, Complete 2015)

Two more segments will be added to the CLRP as studies:

- d) Union Station to Mt. Vernon Square along H Street NW, New Jersey Avenue NW and K Street NW
- e) K Street NW from Mt. Vernon Square to Wisconsin Avenue NW

Length: 4.5 miles  
Cost: \$183.8 million (Capital)  
\$4.8 million per year (Operating)  
Source: General obligation bonds, FTA/Urban Circulator Program Capital Grant



## 2. Bike Lane Pilot Project

This pilot project\* will add barrier-protected bike lanes on five streets in downtown DC. The bike lanes will be protected from automobile traffic by either a lane of parking or buffer zone. To accommodate the bike lanes, one lane of automobile traffic will be removed from 9th, 15th, L and M Streets. Two lanes will be removed from Pennsylvania Avenue and the bike lanes will travel down the center median.

- a) 9<sup>th</sup> Street NW from Constitution Avenue NW to K Street NW (0.7 mile)
- b) 15<sup>th</sup> Street NW from Constitution Avenue NW to W Street NW (2 miles)
- c) L Street from 11<sup>th</sup> Street NW to 25<sup>th</sup> Street NW (1.3 miles)
- d) M Street from 15<sup>th</sup> Street NW to 29<sup>th</sup> Street NW (1 mile)
- e) Pennsylvania Avenue NW from 3<sup>rd</sup> Street NW to 14<sup>th</sup> Street NW (1 mile)

Length: 6 miles  
Complete: 2010  
Cost: \$1.2 million  
Source: Local



\* Because this is a “pilot project”, it will not be considered permanent until the District Department of Transportation (DDOT) has evaluated the effectiveness and impacts of the proposed changes. If DDOT decides to make them permanent, they will be required to submit them again for air quality conformity testing in the future.

### 3. St. Elizabeth's Access Improvements

The following improvements are proposed to address the increased traffic expected when the Department of Homeland Security moves to the St. Elizabeth's campus.

- a) Reconfigure the I-295/Malcolm X Avenue SE Interchange
- b) Construct a new 3-lane access road to the West Campus, parallel to I-295 from Firth Sterling Avenue SE to Malcolm X Avenue SE
- c) Reconstruct Martin Luther King, Jr. Avenue SE from Pomoroy Road SE to Milwaukee Place SE to add a 5<sup>th</sup> lane
- d) Construct a 2-lane extension of 13<sup>th</sup> Street SE from Congress Heights Metro Station to Pecan Street SE
- e) Reconstruct and reconfigure Pecan and Sycamore Streets to accommodate bus/transit

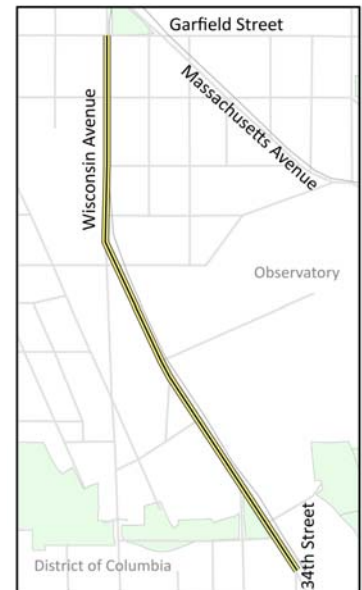
Complete: 2016  
Cost: \$158.2 million  
Source: Federal funding



### 4. Glover Park Streetscaping/Wisconsin Avenue Reconfiguration Wisconsin Avenue NW from 34<sup>th</sup> Street NW to Garfield Street NW

Within the limits cited, Wisconsin Avenue NW will be reconfigured from six lanes down to four lanes with a center left-turn lane. The purpose of this project is to improve the attractiveness of the Glover Park commercial district and to address pedestrian and vehicular safety.

Complete: 2011  
Cost: \$4.7 million  
Source: General obligation bonds and federal funding

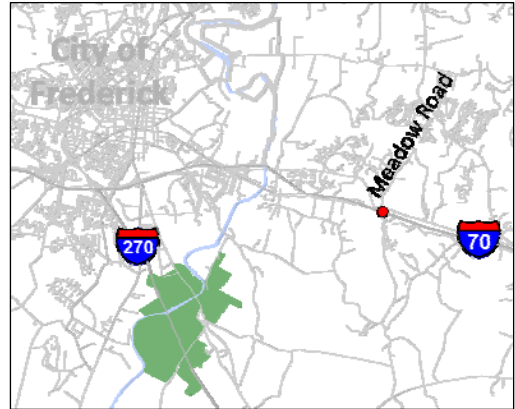


## MARYLAND

### 5. I-70 Interchange at Meadow Road

Reconstruct the interchange of I-70 and Meadow Road to provide missing ramp movements.

Complete: 2016  
Cost: \$27 million  
Source: Federal and State funding



### 6. MD 3, Robert Crain Highway from US 50 to the Anne Arundel County Line

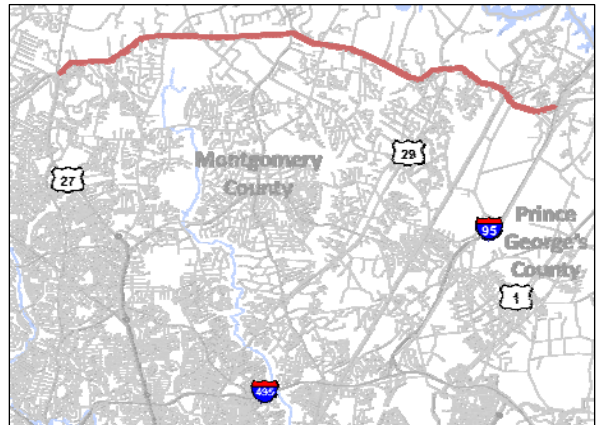
This project was originally included in the 2009 CLRP, but was removed to shift funding for the implementation of the Purple Line. Funding has been shifted from other projects to include this project in the CLRP once again. MD 3 will be upgraded to a four to six lane roadway with improved access control.

Length: 2.5 miles  
Complete: 2030  
Cost: \$399 million  
Source: Federal and State funding

### 7. MD 28, Norbeck Road/MD 198, Spencerville Road from MD 97 to I-95

This project was originally included in the 2009 CLRP, but was removed to shift funding for the implementation of the Purple Line. Funding has been shifted to include this project in the CLRP once again. This project will upgrade the facility to a 4-lane divided highway from MD 97 to Old Gunpowder Road, and to a 6-lane divided highway from Old Gunpowder Road to I-95.

Length: 11 miles  
Complete: 2025  
Cost: \$352 million  
Source: Federal and State funding



## SIGNIFICANT CHANGES, DELAYS AND DELETIONS

The following is a list of regionally significant projects that have either changed in scope, have been delayed by ten years or more, or have been removed from the CLRP (or reduced to “study” status).

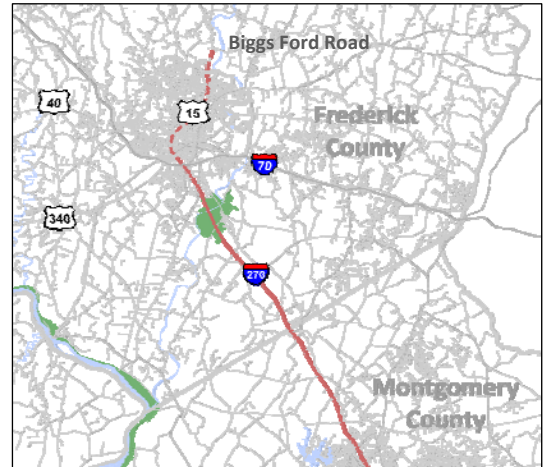
### Maryland

#### *Changes to Existing Projects*

- I-270/US 15 from Shady Grove Metro Station to Biggs Ford Rd.

The limits of this project were previously defined from the Shady Grove Metro Station to I-70. MDOT is proposing to extend the project from I-70 to Biggs Ford Road. This project will implement highway improvements along the corridor.

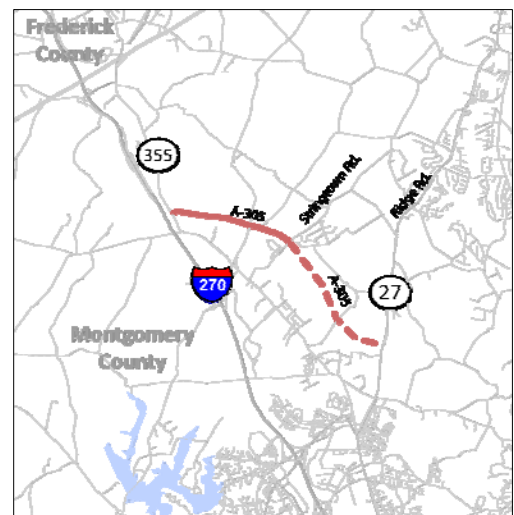
|           |                          |
|-----------|--------------------------|
| Length:   | 7 miles (28 miles total) |
| Complete: | 2030                     |
| Cost:     | \$3.4 billion            |
| Source:   | Federal and State        |



- A-305, Mid-County Highway Extended from MD 355 to MD 27

The limits of this project were previously defined from MD 355 to Stringtown Road. MDOT is proposing to extend the project from Stringtown Road to MD 27. This will construct a new 2 lane roadway from MD 355 to Stringtown Road and a new 4 lane roadway from Stringtown Road to MD 27. This segment of the project was in the 2008 CLRP but had subsequently been removed.

|           |              |
|-----------|--------------|
| Complete: | 2012         |
| Cost:     | \$12 million |
| Source:   | Private      |



**Maryland (continued)**

*Projects delayed 10 years or more*

|                                                                             | <b>Old<br/>Date</b> | <b>New<br/>Date</b> |
|-----------------------------------------------------------------------------|---------------------|---------------------|
| • MD 2/4, construct 3 lanes from MD 765 to MD 2/4 at Lusby (Calvert County) | 2020                | 2040                |
| • MD 4, construct interchange at Westphalia Road                            | 2010                | 2020                |

*Projects removed from the Plan\**

|                                                                        |      |
|------------------------------------------------------------------------|------|
| • I-95/495 interchange at Greenbelt Metro                              | 2016 |
| • US 29 Columbia Pike, upgrade from Sligo Creek Pkwy to Howard Co line | 2020 |
| • US 201 Kenilworth Ave from Rittenhouse Rd to Pontiac St              | 2020 |
| • US 301, upgrade and widen from north of Mount Oak Road to US 50      | 2020 |

\* The widening of Middlebrook Road and the Construction of M-83, Mid-County Highway were previously shown as being removed from the CLRP. They are no longer being removed and will remain in the Plan as originally scheduled.

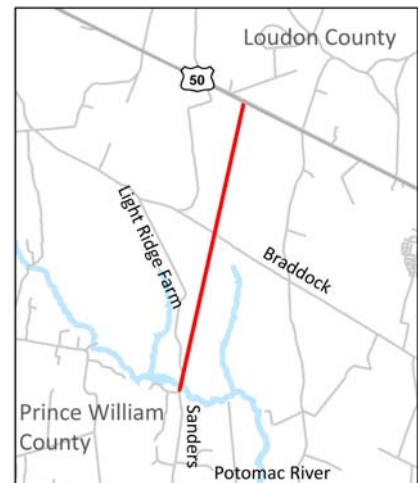
**Virginia**

*Changes to Existing Projects*

- VA 411, Tri-County Parkway, construct 4 lanes from VA 234 at I-66 to US 50

The limits of this project were previously defined from VA 234 to the Loudoun County line. VDOT is proposing to extend the project from the Loudoun County line to US 50.

Length: 4 miles  
 Complete: 2035



Virginia (continued)

|                                                                                              | <u>Old<br/>Date</u> | <u>New<br/>Date</u> |
|----------------------------------------------------------------------------------------------|---------------------|---------------------|
| <i>Projects delayed 10 years or more</i>                                                     |                     |                     |
| • US 1, bus right turn lanes from VA 235 N to I-95                                           | 2025                | 2035                |
| • VA 7/US 15 Bypass, widen to 6 lanes from VA 7 W to US 15 S                                 | 2025                | 2035                |
| • US 15 (James Madison Highway), widen to 4 lanes from US 29 to I-66                         | 2030                | 2040                |
| • Tri-County Parkway, construct 4 lanes from I-66 to US 50                                   | 2025                | 2035                |
| • VA 7 Bypass, widen/upgrade to 6 lanes from US 15 S to VA 7/US 15 E                         | 2020                | 2035                |
| <i>Projects removed from the Plan</i>                                                        |                     |                     |
| • I-95, construct interchange at VA 7900 (Franconia-Springfield Pkwy)                        | 2015                |                     |
| • US 1, widen to 6 lanes from Stafford Co line to Joplin Rd                                  | 2016                |                     |
| • VA 7, widen to 6 lanes from Rt 9 to Market St                                              | 2025                |                     |
| • US 15 (James Madison Hwy), widen to 4 lanes from VA 234 to Loudoun Co line                 | 2030                |                     |
| • VA 28 (Centreville Road), widen to 6 lanes from NCL Manassas Park to Old Centreville Rd    | 2025                |                     |
| • US 50, widen to 8 lanes from I-66 to WCL Fairfax City                                      | 2020                |                     |
| • VA 7100 (Fairfax Co Pkwy), widen to 6 lanes from VA 636 to VA 640                          | 2015                |                     |
| • VA 7100 (Fairfax Co Pkwy HOV), construct 2 lanes from VA 640 to VA 7900                    | 2015                |                     |
| • VA 234 (Manassas Bypass), widen/upgrade to 6 lanes from VA 234 (South of Manassas) to I-66 | 2030                |                     |
| • VA 28, widen/upgrade to 6 lanes from VA 619 to VA 234 Bypass                               | 2020                |                     |
| • US 29, widen to 6 lanes from US 50 to I-66                                                 | 2010                |                     |
| • VA 123, widen to 6 lanes from Horner Rd. to Devil's Reach Rd.                              | 2015                |                     |



# **ATTACHMENT B**





## HOUSEHOLD DATA

| <b>MSA:</b>                 | <b>2002</b>      | <b>2011</b>      | <b>2020</b>      | <b>2030</b>      | <b>2040</b>      | <b>2040/2002</b> |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>D.C.</b>                 | 250354           | 269615           | 296765           | 317236           | 338980           | 1.35             |
| <b>MONTGOMERY</b>           | 334301           | 365175           | 399682           | 439791           | 464802           | 1.39             |
| <b>PR.GEORGES</b>           | 294712           | 307231           | 329385           | 347016           | 358310           | 1.22             |
| <b>ARLINGTON</b>            | 89027            | 101996           | 114382           | 121341           | 124207           | 1.40             |
| <b>ALEXANDRIA</b>           | 63670            | 67007            | 73678            | 82884            | 90555            | 1.42             |
| <b>FAIRFAX</b>              | 373414           | 403885           | 442273           | 479839           | 502041           | 1.34             |
| <b>LOUDOUN</b>              | 70935            | 104404           | 127412           | 150212           | 158303           | 2.23             |
| <b>PR. WILLIAM</b>          | 120194           | 156444           | 188801           | 214454           | 231495           | 1.93             |
| <b>FREDERICK</b>            | 73833            | 89351            | 104140           | 123126           | 147529           | 2.00             |
| <b>CHARLES</b>              | 43981            | 52264            | 64300            | 75848            | 85902            | 1.95             |
| <b>STAFFORD</b>             | 30404            | 45109            | 59037            | 72712            | 86205            | 2.84             |
| <b>CALVERT</b>              | 27229            | 32498            | 36028            | 38348            | 40301            | 1.48             |
| <b>SUBTOTAL</b>             | <b>1,772,054</b> | <b>1,994,979</b> | <b>2,235,883</b> | <b>2,462,807</b> | <b>2,628,630</b> | <b>1.48</b>      |
| <b>ADDITIONAL COUNTIES:</b> |                  |                  |                  |                  |                  |                  |
| <b>HOWARD</b>               | 94673            | 110530           | 125045           | 132996           | 135065           | 1.43             |
| <b>ANNE ARUNDEL</b>         | 184180           | 204032           | 217782           | 229368           | 234335           | 1.27             |
| <b>CARROLL</b>              | 55263            | 62404            | 69642            | 76145            | 81453            | 1.47             |
| <b>FREDERICKSBURG (VA)</b>  | 8191             | 10525            | 12462            | 13971            | 15469            | 1.89             |
| <b>JEFFERSON</b>            | 17016            | 20980            | 25957            | 33075            | 41527            | 2.44             |
| <b>N. SPOTSYLVANIA</b>      | 25357            | 37781            | 48536            | 58796            | 68631            | 2.71             |
| <b>FAUQUIER</b>             | 21448            | 27693            | 35730            | 47502            | 63154            | 2.94             |
| <b>CLARKE</b>               | 5182             | 6140             | 6722             | 7487             | 8308             | 1.60             |
| <b>K. GEORGE</b>            | 6329             | 9101             | 11411            | 14030            | 16659            | 2.63             |
| <b>ST. MARY'S</b>           | 32406            | 39985            | 49352            | 58143            | 66509            | 2.05             |
| <b>SUBTOTAL</b>             | <b>450,045</b>   | <b>529,171</b>   | <b>602,639</b>   | <b>671,513</b>   | <b>731,110</b>   | <b>1.62</b>      |
| <b>TOTAL</b>                | <b>2,222,099</b> | <b>2,524,150</b> | <b>2,838,522</b> | <b>3,134,320</b> | <b>3,359,740</b> | <b>1.51</b>      |

**SOURCE:**

MWCOG Round 8.0 Cooperative Forecasts

BMC Round 7-B Cooperative Forecasts

GWRC/FAMPO Regional Demographic Control Forecasts for 2035 CLRP, June 2008

Tri-County Council for Southern Maryland data for Calvert, Charles and St. Mary's

## EMPLOYMENT DATA

| MSA:                        | 2002      | 2011      | 2020      | 2030      | 2040      | 2040/2002 |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>D.C.</b>                 | 746265    | 793350    | 868257    | 923988    | 977162    | 1.31      |
| <b>MONTGOMERY</b>           | 484992    | 513109    | 585409    | 673515    | 723707    | 1.49      |
| <b>PR.GEORGES</b>           | 341706    | 360418    | 383232    | 419127    | 473940    | 1.39      |
| <b>ARLINGTON</b>            | 187501    | 207971    | 243988    | 268795    | 281308    | 1.50      |
| <b>ALEXANDRIA</b>           | 95891     | 110651    | 124115    | 142257    | 160447    | 1.67      |
| <b>FAIRFAX</b>              | 624194    | 689123    | 788508    | 863803    | 917484    | 1.47      |
| <b>LOUDOUN</b>              | 106435    | 148499    | 206460    | 257196    | 285415    | 2.68      |
| <b>PR. WILLIAM</b>          | 127881    | 148961    | 188769    | 232597    | 280697    | 2.19      |
| <b>FREDERICK</b>            | 106647    | 144200    | 158254    | 167233    | 175084    | 1.64      |
| <b>CHARLES</b>              | 48569     | 63485     | 71743     | 77549     | 83152     | 1.71      |
| <b>STAFFORD</b>             | 33200     | 43859     | 55167     | 65741     | 74956     | 2.26      |
| <b>CALVERT</b>              | 26639     | 36332     | 44441     | 47142     | 48936     | 1.84      |
| <b>SUBTOTAL</b>             | 2,929,920 | 3,259,958 | 3,718,343 | 4,138,943 | 4,482,288 | 1.53      |
| <b>ADDITIONAL COUNTIES:</b> |           |           |           |           |           |           |
| <b>HOWARD</b>               | 140774    | 168941    | 195196    | 219748    | 227002    | 1.61      |
| <b>ANNE ARUNDEL</b>         | 260717    | 293170    | 328008    | 357305    | 369880    | 1.42      |
| <b>CARROLL</b>              | 57372     | 68004     | 70825     | 72455     | 74080     | 1.29      |
| <b>FREDERICKSBURG (VA)</b>  | 24171     | 29491     | 35483     | 41786     | 47207     | 1.95      |
| <b>JEFFERSON</b>            | 17008     | 21564     | 26112     | 30674     | 35782     | 2.10      |
| <b>N. SPOTSYLVANIA</b>      | 29614     | 36806     | 46698     | 55689     | 63484     | 2.14      |
| <b>FAUQUIER</b>             | 22320     | 27961     | 35765     | 43365     | 52576     | 2.36      |
| <b>CLARKE</b>               | 6079      | 6882      | 7685      | 8550      | 9517      | 1.57      |
| <b>K. GEORGE</b>            | 9334      | 9506      | 13150     | 16390     | 19339     | 2.07      |
| <b>ST. MARY'S</b>           | 49629     | 60165     | 67273     | 71964     | 75849     | 1.53      |
| <b>SUBTOTAL</b>             | 617,018   | 722,490   | 826,195   | 917,926   | 974,716   | 1.58      |
| <b>TOTAL</b>                | 3,546,938 | 3,982,448 | 4,544,538 | 5,056,869 | 5,457,004 | 1.54      |

**SOURCE:**

MWCOG Round 8.0 Cooperative Forecasts

BMC Round 7-B Cooperative Forecasts

GWRC/FAMPO Regional Demographic Control Forecasts for 2035 CLRP, June 2008

Tri-County Council for Southern Maryland data for Calvert, Charles and St. Mary's

NOTE: Includes Census Adjustment

**Summary of Percent Change between Household Forecasts  
Draft Round 8.0 and Draft Round 7.2A Cooperative Forecast**

| JURISDICTION                                                  | 2005         | 2010         | 2015         | 2020         | 2025         | 2030         | 2035         | 2040         |
|---------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| District of Columbia                                          | 0.0%         | -3.9%        | -2.7%        | -5.2%        | -4.6%        | -5.4%        | -6.0%        | -5.8%        |
| Arlington County                                              | 0.0%         | 0.6%         | -0.8%        | -1.4%        | -0.9%        | 0.4%         | 1.3%         | 1.5%         |
| City of Alexandria                                            | 0.0%         | -5.4%        | -6.3%        | -4.6%        | -3.9%        | -3.7%        | -3.1%        | -2.6%        |
| <b>Central Jurisdictions</b>                                  | <b>0.0%</b>  | <b>-3.1%</b> | <b>-2.8%</b> | <b>-4.3%</b> | <b>-3.7%</b> | <b>-3.8%</b> | <b>-4.0%</b> | <b>-3.8%</b> |
| Montgomery County (1)                                         | 0.1%         | -0.4%        | -2.3%        | -2.5%        | -1.9%        | -0.5%        | 0.4%         | 0.7%         |
| Rockville (2)                                                 | 2.2%         | 2.7%         | 2.8%         | 3.8%         | 2.5%         | 2.3%         | 2.2%         | 2.1%         |
| Gaithersburg (2)                                              | 0.0%         | -0.7%        | -3.0%        | -5.0%        | -9.5%        | -10.4%       | -12.2%       | -14.9%       |
| Prince George's County                                        | -2.0%        | -3.7%        | -3.7%        | -4.0%        | -4.6%        | -5.2%        | -5.4%        | -5.3%        |
| Fairfax County                                                | 0.2%         | -0.5%        | -1.6%        | -0.9%        | -0.4%        | -0.2%        | 0.2%         | -0.6%        |
| City of Fairfax (3)                                           | 2.9%         | 6.6%         | 12.1%        | 14.4%        | 14.0%        | 11.8%        | 11.6%        | 11.4%        |
| City of Falls Church                                          | 0.0%         | -9.1%        | -4.9%        | 0.0%         | 6.2%         | 6.0%         | 5.8%         | 4.2%         |
| <b>Inner Suburbs</b>                                          | <b>-0.4%</b> | <b>-1.4%</b> | <b>-2.4%</b> | <b>-2.2%</b> | <b>-2.0%</b> | <b>-1.6%</b> | <b>-1.2%</b> | <b>-1.4%</b> |
| Loudoun County                                                | 0.0%         | 0.7%         | -1.3%        | -4.8%        | -4.6%        | -3.7%        | -3.8%        | -3.9%        |
| Prince William County                                         | 0.0%         | -3.8%        | -1.3%        | -0.5%        | -0.1%        | 0.1%         | 0.2%         | 0.1%         |
| City of Manassas                                              | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| City of Manassas Park                                         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Calvert County (4)                                            | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Charles County (4)                                            | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Frederick County                                              | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Stafford County (5)                                           | 13.0%        | 4.8%         | 0.0%         | 0.1%         | 0.0%         | 0.1%         | 0.0%         | -0.7%        |
| <b>Outer Suburbs</b>                                          | <b>1.0%</b>  | <b>-0.5%</b> | <b>-0.6%</b> | <b>-1.2%</b> | <b>-1.1%</b> | <b>-0.8%</b> | <b>-0.8%</b> | <b>-0.9%</b> |
| Anne Arundel County(6)                                        | 0.0%         | 0.0%         | -0.1%        | -0.1%        | -0.1%        | -0.1%        | 0.0%         | 0.0%         |
| Carroll County (6)                                            | 0.0%         | -3.0%        | -2.4%        | -2.2%        | -1.7%        | -1.6%        | -1.3%        | -1.0%        |
| Howard County (6)                                             | -0.1%        | -0.8%        | -0.6%        | -0.4%        | -0.1%        | 0.0%         | 0.4%         | 0.4%         |
| <b>Modeled Region -<br/>Baltimore Area Jurisdictions</b>      | <b>0.0%</b>  | <b>-0.8%</b> | <b>-0.6%</b> | <b>-0.5%</b> | <b>-0.4%</b> | <b>-0.3%</b> | <b>-0.1%</b> | <b>-0.1%</b> |
| King George County (5)                                        | 13.8%        | 5.5%         | 0.0%         | 0.1%         | 0.0%         | 0.2%         | 0.0%         | -0.6%        |
| Spotsylvania County (5)                                       | 13.1%        | 5.0%         | 0.0%         | 0.1%         | 0.0%         | 0.1%         | 0.0%         | -0.6%        |
| <b>Modeled Portion Only</b>                                   | <b>13.2%</b> | <b>5.0%</b>  | <b>0.0%</b>  | <b>0.1%</b>  | <b>0.0%</b>  | <b>0.1%</b>  | <b>0.0%</b>  | <b>-0.5%</b> |
| City of Fredericksburg (5)                                    | 5.4%         | 2.3%         | 0.0%         | 0.1%         | 0.0%         | 0.1%         | 0.0%         | -0.2%        |
| <b>Modeled Region -<br/>Fredericksburg Area Jurisdictions</b> | <b>1.4%</b>  | <b>0.6%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>-0.1%</b> |
| St. Mary's County (4)                                         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Clarke County                                                 | -0.8%        | -1.2%        | -1.2%        | -2.0%        | -2.8%        | -3.6%        | -4.4%        | -5.2%        |
| Fauquier County                                               | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Jefferson County                                              | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| <b>Modeled Region -<br/>Other Jurisdictions</b>               | <b>-0.1%</b> | <b>-0.1%</b> | <b>-0.1%</b> | <b>-0.1%</b> | <b>-0.2%</b> | <b>-0.2%</b> | <b>-0.2%</b> | <b>-0.2%</b> |
| <b>Northern Virginia</b>                                      | <b>-0.6%</b> | <b>0.9%</b>  | <b>1.5%</b>  | <b>1.5%</b>  | <b>1.0%</b>  | <b>0.7%</b>  | <b>0.4%</b>  | <b>0.7%</b>  |
| <b>Suburban Maryland</b>                                      | <b>-0.7%</b> | <b>-1.6%</b> | <b>-2.3%</b> | <b>-2.5%</b> | <b>-2.5%</b> | <b>-2.0%</b> | <b>-1.7%</b> | <b>-1.5%</b> |
| <b>MSA (1983) REGIONAL TOTAL</b>                              | <b>-0.7%</b> | <b>-1.6%</b> | <b>-2.3%</b> | <b>-2.5%</b> | <b>-2.5%</b> | <b>-2.0%</b> | <b>-1.7%</b> | <b>-1.5%</b> |
| <b>TPB Model Region Total</b>                                 | <b>0.2%</b>  | <b>-1.3%</b> | <b>-1.7%</b> | <b>-2.0%</b> | <b>-1.7%</b> | <b>-1.5%</b> | <b>-1.4%</b> | <b>-1.4%</b> |

(1) Forecasts for years 2005 to 2040 include all of Takoma Park.

(2) Included in Montgomery County total.

(3) Forecasts for all years do not include Fairfax County households (+/- 500 households) in TAZ 1609

(4)Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecasts for Calvert County, Charles County and St. Mary's County.

(5) Source: GWRC/FAMPO Regional Demographic Control Forecasts for 2035 CLRP Socioeconomic Data, June 2008.

(6) Comparison is between the BMC Round 7-B and 7-A.

**Summary of Percent Change between Employment Forecasts  
Draft Round 8.0 and Draft Round 7.2A Cooperative Forecasts**

| JURISDICTION                                                  | 2005         | 2010         | 2015         | 2020         | 2025         | 2030         | 2035         | 2040         |
|---------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| District of Columbia                                          | 0.0%         | -0.3%        | 1.0%         | 0.9%         | 0.3%         | 0.2%         | 2.0%         | 1.9%         |
| Arlington County                                              | 0.2%         | -4.3%        | -7.8%        | -6.0%        | -1.7%        | -1.1%        | 0.1%         | 0.2%         |
| City of Alexandria                                            | -0.1%        | -0.2%        | -5.0%        | -8.8%        | -8.1%        | -9.3%        | -3.9%        | -2.7%        |
| <b>Central Jurisdictions</b>                                  | <b>0.0%</b>  | <b>-1.1%</b> | <b>-1.4%</b> | <b>-1.6%</b> | <b>-1.0%</b> | <b>-1.2%</b> | <b>0.9%</b>  | <b>1.0%</b>  |
| Montgomery County (1)                                         | 0.0%         | -0.8%        | -1.3%        | -0.8%        | -0.6%        | 0.0%         | 0.0%         | 0.0%         |
| Rockville (2)                                                 | 0.0%         | -5.7%        | -1.8%        | -0.5%        | -1.6%        | -1.4%        | -1.3%        | -1.3%        |
| Gaithersburg (2)                                              | 0.0%         | -1.3%        | -4.0%        | -7.2%        | -13.8%       | -13.7%       | -12.3%       | -15.8%       |
| Prince George's County                                        | 0.0%         | -1.2%        | -2.4%        | -3.9%        | -5.8%        | -7.8%        | -9.2%        | -9.5%        |
| Fairfax County (3)                                            | 0.0%         | -3.1%        | -4.1%        | -1.4%        | -1.3%        | -0.9%        | -1.0%        | -1.1%        |
| City of Fairfax (4)                                           | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| City of Falls Church                                          | 19.0%        | -3.4%        | -14.3%       | -7.7%        | -1.8%        | 4.1%         | 4.1%         | 4.0%         |
| <b>Inner Suburbs</b>                                          | <b>0.1%</b>  | <b>-1.9%</b> | <b>-2.8%</b> | <b>-1.8%</b> | <b>-2.0%</b> | <b>-2.1%</b> | <b>-2.5%</b> | <b>-2.7%</b> |
| Loudoun County                                                | -3.6%        | -9.5%        | -11.5%       | -9.2%        | -7.6%        | -6.5%        | -6.7%        | -6.4%        |
| Prince William County                                         | -0.4%        | -6.3%        | -5.8%        | -5.4%        | -5.9%        | -5.4%        | -2.2%        | -1.8%        |
| City of Manassas                                              | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| City of Manassas Park                                         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Calvert County (5)                                            | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Charles County (5)                                            | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Frederick County                                              | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Stafford County (6)                                           | -3.6%        | -1.5%        | 0.0%         | 0.2%         | 0.0%         | 0.2%         | 0.0%         | -0.3%        |
| <b>Outer Suburbs</b>                                          | <b>-1.2%</b> | <b>-4.0%</b> | <b>-4.5%</b> | <b>-4.0%</b> | <b>-3.7%</b> | <b>-3.3%</b> | <b>-2.7%</b> | <b>-2.5%</b> |
| Anne Arundel County (7)                                       | 0.0%         | -0.8%        | -2.6%        | -4.2%        | -5.0%        | -5.8%        | -5.9%        | -5.9%        |
| Carroll County (7)                                            | 0.0%         | -0.1%        | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Howard County (7)                                             | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| <i>Modeled Region -<br/>Baltimore Area Jurisdictions</i>      | <b>0.0%</b>  | <b>-0.5%</b> | <b>-1.4%</b> | <b>-2.4%</b> | <b>-2.8%</b> | <b>-3.2%</b> | <b>-3.3%</b> | <b>-3.3%</b> |
| King George County (6)                                        | 0.3%         | 0.1%         | 0.0%         | 0.2%         | 0.0%         | 0.3%         | 0.0%         | -0.5%        |
| Spotsylvania County (6)                                       | 1.4%         | 0.8%         | 0.0%         | 0.2%         | 0.0%         | 0.2%         | 0.0%         | -0.3%        |
| <i>Modeled Portion Only</i>                                   | 1.4%         | 0.7%         | 0.1%         | 0.2%         | 0.1%         | 0.2%         | 0.1%         | -0.2%        |
| City of Fredericksburg (6)                                    | -3.9%        | -1.8%        | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | -0.3%        |
| <i>Modeled Region -<br/>Fredericksburg Area Jurisdictions</i> | <b>-1.1%</b> | <b>-0.4%</b> | <b>0.0%</b>  | <b>0.1%</b>  | <b>0.0%</b>  | <b>0.2%</b>  | <b>0.1%</b>  | <b>-0.3%</b> |
| St. Mary's County (5)                                         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Clarke County                                                 | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Fauquier County                                               | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| Jefferson County                                              | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         | 0.0%         |
| <i>Modeled Region -<br/>Other Jurisdictions</i>               | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  | <b>0.0%</b>  |
| <b>Northern Virginia</b>                                      | <b>-0.4%</b> | <b>-3.9%</b> | <b>-5.7%</b> | <b>-4.1%</b> | <b>-3.2%</b> | <b>-2.8%</b> | <b>-1.9%</b> | <b>-1.8%</b> |
| <b>Suburban Maryland</b>                                      | <b>0.0%</b>  | <b>-0.8%</b> | <b>-1.4%</b> | <b>-1.6%</b> | <b>-2.1%</b> | <b>-2.5%</b> | <b>-3.0%</b> | <b>-3.2%</b> |
| <b>MSA (1983) REGIONAL TOTAL</b>                              | <b>-0.1%</b> | <b>-2.0%</b> | <b>-2.7%</b> | <b>-2.2%</b> | <b>-2.0%</b> | <b>-2.1%</b> | <b>-1.5%</b> | <b>-1.5%</b> |
| <b>TPB Model Region Total</b>                                 | <b>-0.1%</b> | <b>-1.7%</b> | <b>-2.4%</b> | <b>-2.1%</b> | <b>-2.1%</b> | <b>-2.1%</b> | <b>-1.7%</b> | <b>-1.7%</b> |

(1) Forecasts for years 2005 to 2040 include all of Takoma Park.

(2) Included in Montgomery County total.

(3) Forecasts for all years include Fairfax County Government employees working in the Massey Complex.

(4) Forecasts for all years do not include Fairfax County Government employees (+/- 2,000 jobs) working in the Massey Complex.

(5) Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecasts for Calvert County, Charles County and St. Mary's County.

(6) Source: GWRC/FAMPO Regional Demographic Control Forecasts for 2035 CLRP Socioeconomic Data, June 2008.

(7) Comparison is between the BMC Round 7-B and 7-A.

# **ATTACHMENT C**



### TERM TRACKING SHEET TRANSPORTATION EMISSION REDUCTION MEASURES Part A - Daily Ozone Precursor Emissions

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                              | IMPLEMENTATION STATUS |             |           |     | ORIGINAL AC COMPLETION DATE | TUAL COMPLETION DATE | 2011                           |        | 2020   |        | 2030   |        | 2040   |        | Project Category * |
|-----|--------------|--------------|--------|----------------------------------------------------------------------|-----------------------|-------------|-----------|-----|-----------------------------|----------------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------------------|
|     |              |              |        |                                                                      | FULL                  | SCALED-BACK | UNDER-WAY | REM |                             |                      | VOC                            | NOX    | VOC    | NOX    | VOC    | NOX    | VOC    | NOX    |                    |
|     |              |              |        |                                                                      |                       |             |           |     |                             |                      |                                |        |        |        |        |        |        |        |                    |
| 9   | X            | 1994-99      | MDOT   | Park & Ride Lot - MD 210/ MD 373                                     | X                     |             |           |     | 2000                        | 2003                 | 0.0006                         | 0.0013 | 0.0003 | 0.0005 | 0.0003 | 0.0005 | 0.0003 | 0.0003 | C                  |
| 19  | X            | 1994-99      | PRTC   | VRE Woodbridge Parking Expansion (add 500 spaces)                    | X                     |             |           |     |                             | 2002-2003            | n/a                            | n/a    | n/a    | n/a    | n/a    | n/a    |        |        | -                  |
| 20  | X            | 1994-99      | ALEX   | King St. Metrorail access improvements                               | X                     |             |           |     |                             | 2006                 | 0.0011                         | 0.0013 | 0.0007 | 0.0005 | 0.0006 | 0.0005 | 0.0005 | 0.0003 | C                  |
| 38  | X            | 1995-00      | MDOT   | Signal Systems - MD 85 Executive Way to MD 355                       | X                     |             |           |     | 1996                        | Pre 2000             | 0.0000                         | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | TR                 |
| 39  | X            | 1995-00      | MDOT   | Signal Systems - MD 355 ,I-70 ramps to Grove Rd.                     | X                     |             |           |     | 1996                        | n/a                  | 0.0000                         | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | TR                 |
| 44  | X            | 1995-00      | MDOT   | Signal Systems - MD 410, 62nd Ave. to Riverdale Rd.                  | X                     |             |           |     | 1996                        | 2002                 | 0.0000                         | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | TR                 |
| 48  | X            | 1995-00      | MDOT   | MARC Replacement Coaches                                             | X                     |             |           |     | 1999                        | 2004                 | 0.0006                         | 0.0013 | 0.0003 | 0.0005 | 0.0003 | 0.0005 | 0.0003 | 0.0003 | C (TCM)            |
| 49  | X            | 1995-00      | MDOT   | MARC Expansion Coaches                                               | X                     |             |           |     | 1999                        | 2004                 | 0.0051                         | 0.0122 | 0.0029 | 0.0051 | 0.0026 | 0.0042 | 0.0024 | 0.0029 | C (TCM)            |
| 51  | X            | 1995-00      | VDOT   | Alexandria Telecommuting Pilot Program                               | X                     |             |           |     |                             | 2000 & 2001          | 0.0000                         | 0.0000 |        |        | 0.0000 | 0.0000 | 0.0000 | 0.0000 | C                  |
| 52  | X            | 1995-00      | VDOT   | Fairfax County Bus Shelter (Fairfax Co. TDM program)                 |                       |             | X         |     | 2000                        | 2001                 | 0.0000                         | 0.0000 |        |        | 0.0000 | 0.0000 | 0.0000 | 0.0000 | C                  |
| 54  | X            | 1995-00      | VDOT   | City of Fairfax Bus Shelters                                         | X                     |             |           |     | 1999                        | 2004                 | 0.0000                         | 0.0004 | 0.0000 | 0.0002 | 0.0000 | 0.0002 | 0.0000 | 0.0001 | C (TCM)            |
| 56  | X            | 1995-00      | VDOT   | Cherry Hill VRE Access                                               |                       |             | X         |     |                             | Jul-08               | 0.0040                         | 0.0104 | 0.0023 | 0.0044 | 0.0020 | 0.0036 | 0.0018 | 0.0025 | C (TCM)            |
| 58  | X            | 1995-00      | WMATA  | Bus Replacement (172 buses)                                          | X                     |             |           |     | 1998                        | 1998                 | 0.0661                         | 0.2326 |        |        |        |        | 0.0000 | 0.0000 | SP (TCM)           |
| 59  | X            | 1995-00      | MCG    | Shady Grove West Park and Ride                                       |                       |             | X         |     | 2010                        |                      | 0.0000                         | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | C                  |
| 60  | X            | 1995-00      | MCG    | White Oak Park and Ride                                              |                       |             | X         |     | 2010                        |                      | 0.0000                         | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | C                  |
| 61  | X            | 1995-00      | MCG    | Bicycle Facilities                                                   |                       |             | X         |     | FY99                        |                      | 0.0017                         | 0.0009 | 0.0010 | 0.0004 | 0.0009 | 0.0003 | 0.0008 | 0.0002 | C                  |
| 62  | X            | 1995-00      | MCG    | Pedestrian Facilities to Metrorail                                   |                       |             | X         |     |                             |                      | 0.0028                         | 0.0035 | 0.0016 | 0.0015 | 0.0015 | 0.0012 | 0.0013 | 0.0008 | C                  |
| 63  | X            | 1995-00      | MDOT   | MARC Replacement Coaches                                             | X                     |             |           |     | 1999                        | 2004                 | 0.0023                         | 0.0052 | 0.0013 | 0.0022 | 0.0012 | 0.0018 | 0.0011 | 0.0012 | C                  |
| 64  | X            | 1995-00      | MDOT   | MARC Expansion Coaches                                               | X                     |             |           |     | 1999                        | 2004                 | 0.0181                         | 0.0452 | 0.0104 | 0.0189 | 0.0094 | 0.0157 | 0.0084 | 0.0107 | C (TCM)            |
| 66  | X            | 1995-00      | VDOT   | Commuter Lots - District Wide                                        | X                     |             |           |     | varies                      | 1995, 2001           | 0.0062                         | 0.0144 | 0.0036 | 0.0060 | 0.0032 | 0.0050 | 0.0029 | 0.0034 | C                  |
| 67  | X            | 1995-00      | VDOT   | I-66 and Stringfellow Rd. Park and Ride                              | X                     |             |           |     | 2000                        | 2000 end             | 0.0056                         | 0.0087 | 0.0033 | 0.0036 | 0.0029 | 0.0030 | 0.0026 | 0.0020 | C                  |
| 68  | X            | 1995-00      | VDOT   | Lake Ridge Park and Ride (now called Tacketts Mill lot)              | X                     |             |           |     |                             | 1999/2000            | 0.0000                         | 0.0044 | 0.0000 | 0.0018 | 0.0000 | 0.0015 | 0.0000 | 0.0010 | C                  |
| 69  | X            | 1995-00      | VDOT   | Bicycle Trails and Facilities (Arlington & Fairfax Co - 7 locations) |                       |             | X         |     | varies                      | 2010-12              | 0.0011                         | 0.0074 | 0.0007 | 0.0031 | 0.0006 | 0.0026 | 0.0005 | 0.0017 | C                  |
| 70  | X            | 1995-00      | VDOT   | Improved Access to Metrorail Stations (VRE 2 Stn)                    |                       |             | X         |     | varies                      | 2000-2012            | 0.0003                         | 0.0004 | 0.0002 | 0.0002 | 0.0001 | 0.0002 | 0.0001 | 0.0001 | C                  |
| 71  | X            | 1995-00      | VDOT   | I-66 HOV access at Monument Dr.                                      | X                     |             |           |     |                             | 1997                 | 0.0028                         | 0.0044 | 0.0033 | 0.0036 | 0.0029 | 0.0030 | 0.0026 | 0.0020 | C                  |
| 72  | X            | 1995-00      | DC     | Bicycle Facilities                                                   | X                     |             |           |     |                             |                      | 0.0136                         | 0.0087 | 0.0078 | 0.0036 | 0.0070 | 0.0030 | 0.0063 | 0.0020 | C                  |
| 73  | X            | 1995-00      | REGION | COG Regional Ridesharing Support                                     | X                     |             |           |     |                             | on-going             | 0.1323                         | 0.2340 | 0.0778 | 0.0980 | 0.0710 | 0.0818 | 0.0638 | 0.0555 | C                  |
| 74  | X            | 1995-00      | REGION | M-47 Integrated Ridesharing                                          | X                     |             |           |     |                             | on-going             | 0.0477                         | 0.0816 | 0.0279 | 0.0342 | 0.0254 | 0.0285 | 0.0228 | 0.0193 | C                  |
| 75  | X            | 1995-00      | REGION | M-92 Telecommuting Support                                           | X                     |             |           |     |                             | on-going             | 0.1099                         | 0.1734 | 0.0639 | 0.0726 | 0.0576 | 0.0603 | 0.0518 | 0.0409 | C                  |
| 77  |              | 1996-01      | VDOT   | Duke Street Pedestrian Bridge                                        | X                     |             |           |     | 2005                        | 2007                 | n/a                            | n/a    | n/a    | n/a    | n/a    | n/a    |        |        | -                  |
| 79  | X            | 1996-01      | VDOT   | Fairfax County Bus Shelters (30 shelters with project #85)           |                       |             | X         |     | 1999                        | Summer 200           | 0.0011                         | 0.0013 | 0.0007 | 0.0005 | 0.0006 | 0.0005 | 0.0005 | 0.0003 | C                  |
| 81  | X            | 1996-01      | VDOT   | Arlington County Metrocheck Program                                  | X                     |             |           |     | 1997                        | 1997 Onwards         | 0.0011                         | 0.0013 | 0.0007 | 0.0005 | 0.0006 | 0.0005 | 0.0005 | 0.0003 | C                  |
| 82  | X            | 1996-01      | VDOT   | Old Dominion Drive Bike Trail                                        |                       |             | X         |     | 2000                        | 2010-11              | 0.0006                         | 0.0004 | 0.0003 | 0.0002 | 0.0003 | 0.0002 | 0.0003 | 0.0001 | C                  |
| 83  | X            | 1996-01      | WMATA  | Bus Replacement (see line 58, above)                                 | X                     |             |           |     |                             | 1998                 | Credit taken in line 58, above |        |        |        |        |        |        |        | SP                 |
| 85  | X            | 1996-01      | VDOT   | Fairfax County Bus Shelters (30 shelters with project #79)           | X                     |             |           |     | 1999                        | 2001                 | 0.0006                         | 0.0004 | 0.0003 | 0.0002 | 0.0003 | 0.0002 | 0.0003 | 0.0001 | C                  |



### TERM TRACKING SHEET TRANSPORTATION EMISSION REDUCTION MEASURES Part A - Daily Ozone Precursor Emissions

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                               | IMPLEMENTATION STATUS  |             |           |     | ORIGINAL AC COMPLETION DATE | TUAL COMPLETION DATE | 2011   |         | 2020   |         | 2030   |         | 2040   |         | Project Category * |
|-----|--------------|--------------|--------|-----------------------------------------------------------------------|------------------------|-------------|-----------|-----|-----------------------------|----------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------------------|
|     |              |              |        |                                                                       | FULL                   | SCALED-BACK | UNDER-WAY | REM |                             |                      | VOC    | NOX     | VOC    | NOX     | VOC    | NOX     | VOC    | NOX     |                    |
|     |              |              |        |                                                                       |                        |             |           |     |                             |                      |        |         |        |         |        |         |        |         |                    |
| 90  | X            | 1996-01      | REGION | M-47c Employer Outreach / Guaranteed Ride Home                        | X                      |             |           |     |                             | on-going             | 0.3256 | 0.5041  | 0.1887 | 0.2111  | 0.1698 | 0.1753  | 0.1527 | 0.1189  | C                  |
| 91  | X            | 1996-01      | REGION | M-70a Bicycle Parking                                                 |                        |             | X         |     | 1999                        |                      | 0.0040 | 0.0030  | 0.0023 | 0.0013  | 0.0020 | 0.0011  | 0.0018 | 0.0007  | C                  |
| 92  | X            |              |        | M-92 Telecommuting Support <sup>1</sup>                               | Combined with item #75 |             |           |     |                             |                      | 0.0000 | 0.0000  |        |         |        |         |        |         | C                  |
| 95  | X            | 1997-02      | MCG    | Germantown Transit Center                                             | X                      |             |           |     | 2005                        |                      | 0.0028 | 0.0083  | 0.0016 | 0.0035  | 0.0015 | 0.0029  | 0.0013 | 0.0019  | C (TCM)            |
| 102 | X            | 1997-02      | PG     | Prince George's County Bus Replacement                                | X                      |             |           |     | 1998                        | 1998                 | 0.0029 | 0.0083  |        |         |        |         |        |         | SP (TCM)           |
| 106 | X            | 1997-02      | VDOT   | PRTC Employer Commuting Outreach Program                              | X                      |             |           |     | 1977 on-going               |                      | 0.0011 | 0.0002  | 0.0007 | 0.0001  | 0.0006 | 0.0001  | 0.0005 | 0.0001  | C                  |
| 107 | X            | 1997-02      | VDOT   | PRTC Multimodal Strategic Marketing Implementation Plan               | X                      |             |           |     | 1977 on-going               |                      | 0.0000 | 0.0002  | 0.0000 | 0.0001  | 0.0000 | 0.0001  | 0.0000 | 0.0001  | C                  |
| 108 | X            | 1997-02      | MDOT   | M-103 Taxicab Replacement in Maryland <sup>2</sup>                    | X                      |             |           |     | 2005                        | Stopped              | 0.0764 | 0.2469  | 0.1340 | 0.1827  | 0.3120 | 0.4810  |        |         | SP                 |
| 109 | X            | 1997-02      | REGION | M-70b Employer Outreach for Bicycles                                  | X                      |             |           |     | 1998                        | on going             | 0.0005 | 0.0005  | 0.0030 | 0.0090  | 0.0003 | 0.0002  | 0.0002 | 0.0001  | C                  |
| 110 |              | 1997-02      | VDOT   | M-77b Vanpool Incentive Programs in Virginia                          |                        |             |           | X   | 1999                        | delayed              | n/a    | n/a     | n/a    | n/a     | n/a    | n/a     |        |         | C                  |
| 111 | X            | 1998-03      | WMATA  | Bus Replacement (108 buses)                                           | X                      |             |           |     | 1999                        | 1999                 | 0.0431 | 0.1493  |        |         |        |         |        |         | SP                 |
| 112 | X            | 1998-03      | MCG    | Montgomery County Bus Replacement                                     | X                      |             |           |     |                             | Ongoing              | 0.0077 | 0.0249  |        |         |        |         |        |         | SP                 |
| 113 | X            | 1998-03      | PG     | Prince George's County Bus Replacement                                | X                      |             |           |     | 1998                        | Ongoing              | 0.0010 | 0.0018  |        |         |        |         |        |         | SP                 |
| 114 | X            | 1998-03      | FDC    | Frederick County Bus Replacement                                      | X                      |             |           |     |                             |                      | 0.0010 | 0.0000  |        |         |        |         |        |         | SP                 |
| 117 | X            | 1998-03      | VDOT   | Arlington County Four Mile Run Bike Trail                             | X                      |             |           |     | 1999                        | 2009                 | 0.0006 | 0.0004  | 0.0003 | 0.0002  | 0.0003 | 0.0002  | 0.0003 | 0.0001  | C                  |
| 118 | X            | 1998-03      | VDOT   | Northern Virginia Turn Bays                                           | X                      |             |           |     | 2000                        | 1998                 | 0.0006 | 0.0008  | 0.0003 | 0.0003  | 0.0003 | 0.0002  | 0.0003 | 0.0001  | TR                 |
| 119 | X            | 1998-03      | VDOT   | Fairfax City Bus Replacement                                          | X                      |             |           |     | 2001                        | 2003                 | n/a    | n/a     |        |         |        |         |        |         | SP                 |
| 121 | X            | 1998-03      | WMATA  | WMATA Bus Replacement (252 buses)                                     | X                      |             |           |     | 2001                        | 2001                 | 0.1016 | 0.3563  |        |         |        |         |        |         | SP                 |
| 122 | X            | 97 & 98 TIP  | REGION | M-101a Mass Marketing Campagin (Consumer)                             |                        |             |           | X   |                             | 2005                 | 0.0166 | 0.0284  | 0.0097 | 0.0119  | 0.0088 | 0.0099  | 0.0080 | 0.0067  | C                  |
| 123 | X            | 1999-04      | MDOT   | Various Park and Ride Lots(I-270/MD124, 450 & I-170/MD-75, 54 spaces) |                        | X           |           |     | 2001/1999                   | 2001                 | 0.0045 | 0.0157  | 0.0026 | 0.0066  | 0.0023 | 0.0054  | 0.0021 | 0.0037  | C                  |
| 124 | X            | 1999-04      | MDOT   | Signal Systems (197/MD-198, MD-382 TO US-301,US301)                   | X                      |             |           |     | 2000                        | 2002                 | 0.0070 | -0.0016 | 0.0041 | -0.0005 | 0.0037 | -0.0004 | 0.0033 | -0.0002 | TR                 |
| 125 | X            | 1999-04      | VDOT   | Transit Center at 7 Corners                                           | X                      |             |           |     | 2002                        | 2001                 | 0.0006 | 0.0009  | 0.0003 | 0.0004  | 0.0003 | 0.0003  | 0.0003 | 0.0002  | C                  |
| 126 | X            | 1999-04      | VDOT   | Falls Church Clean Diesel Bus Service                                 | X                      |             |           |     | 2000                        | 2003                 | 0.0038 | 0.0046  |        |         |        |         |        |         | SP                 |
| 127 | X            | 1999-04      | VDOT   | VA 234 Bike Trail                                                     |                        |             |           | X   | 2001                        | 2010                 | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 0.0000  | C                  |
| 128 | X            | 1999-04      | VDOT   | PRTC Ridesharing                                                      | X                      |             |           |     | on-going                    | 2000 ongoing         | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 0.0000  | 0.0000 | 0.0000  | C                  |
| 130 | X            | 1996-01      | VDOT   | M-14: I-66 Feeder Bus Fare Buy Down                                   | X                      |             |           |     |                             | 1998 onward          | 0.0141 | 0.0239  | 0.0082 | 0.0100  | 0.0073 | 0.0083  | 0.0066 | 0.0056  | C                  |
| 131 | X            | 2000-05      | MDOT   | Various park and Ride Lots                                            | X                      |             |           |     | 2002                        | 2003                 | 0.0039 | 0.0141  | 0.0023 | 0.0059  | 0.0020 | 0.0049  | 0.0018 | 0.0033  | C                  |
| 132 | X            | 2000-05      | MDOT   | Signal Systems                                                        | X                      |             |           |     | Varies                      | on-going             | 0.0018 | 0.0000  | 0.0016 | 0.0000  | 0.0009 | 0.0000  | 0.0008 | 0.0000  | TR                 |
| 133 | X            | 2000-05      | VDOT   | 250 Spaces at Gambrill/Hooes Rds. Park and Ride                       | X                      |             |           |     | 2002                        | 2004                 | 0.0040 | 0.0078  | 0.0023 | 0.0033  | 0.0020 | 0.0027  | 0.0018 | 0.0018  | C                  |
| 134 | X            | 2000-05      | VDOT   | 300 Spaces at Backlick Rd                                             | X                      |             |           |     | 2003                        | 2007                 | 0.0028 | 0.0057  | 0.0016 | 0.0024  | 0.0015 | 0.0020  | 0.0013 | 0.0013  | C                  |
| 135 | X            | 2000-05      | VDOT   | Accotink-Gateway Connector Trail                                      | X                      |             |           |     | 2002                        | 2005                 | 0.0040 | 0.0044  | 0.0023 | 0.0018  | 0.0020 | 0.0015  | 0.0018 | 0.0010  | C                  |
| 136 | X            | 2000-05      | VDOT   | Columbia Pike Trail                                                   | X                      |             |           |     | 2000                        | 2009                 | 0.0034 | 0.0035  | 0.0020 | 0.0015  | 0.0018 | 0.0012  | 0.0016 | 0.0008  | C                  |
| 137 | X            | 2000-05      | VDOT   | Lee Highway trail                                                     | X                      |             |           |     | 2000                        | 2007                 | 0.0017 | 0.0017  | 0.0010 | 0.0007  | 0.0009 | 0.0006  | 0.0008 | 0.0004  | C                  |
| 138 | X            | 2000-05      | VDOT   | Arlington Bus Shelter Improvements                                    | X                      |             |           |     | 2005                        | 2005                 | 0.0006 | 0.0004  | 0.0003 | 0.0002  | 0.0003 | 0.0002  | 0.0003 | 0.0001  | C                  |
| 139 | X            | 2000-05      | VDOT   | Pentagon Metrostation Improvements                                    | X                      |             |           |     |                             | 2003                 | 0.0045 | 0.0074  | 0.0026 | 0.0031  | 0.0023 | 0.0026  | 0.0021 | 0.0017  | C                  |

**TERM TRACKING SHEET**  
**TRANSPORTATION EMISSION REDUCTION MEASURES**  
**Part A - Daily Ozone Precursor Emissions**

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY   | PROJECT                                                                                                               | IMPLEMENTATION STATUS |             |           |     | ORIGINAL AC COMPLETION DATE | TUAL COMPLETION DATE | 2011   |        | 2020   |        | 2030   |        | 2040   |        | Project Category * |
|-----|--------------|--------------|----------|-----------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|-----------|-----|-----------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
|     |              |              |          |                                                                                                                       | FULL                  | SCALED-BACK | UNDER-WAY | REM |                             |                      | VOC    | NOX    | VOC    | NOX    | VOC    | NOX    | VOC    | NOX    |                    |
|     |              |              |          |                                                                                                                       |                       |             |           |     |                             |                      |        |        |        |        |        |        |        |        |                    |
| 140 | X            | 2000-05      | MDOT     | East/West Intersection Improvements                                                                                   |                       |             | X         |     | 2005                        | 2005                 | 0.0232 | 0.0109 | 0.0134 | 0.0046 | 0.0120 | 0.0038 | 0.0108 | 0.0026 | C                  |
| 141 | X            | 2001-06      | Feds     | Federal Transit/Ridesharing subsidy                                                                                   | X                     |             |           |     | on-going                    |                      | 0.0576 | 0.0831 | 0.0333 | 0.0348 | 0.0298 | 0.0288 | 0.0268 | 0.0196 | C                  |
| 142 | X            | 2002-07      | WMATA    | 100 CNG buses                                                                                                         | X                     |             |           |     | 2002                        |                      | 0.0000 | 0.1254 |        |        |        |        |        |        | SP (TCM)           |
| 143 | X            | 2002-07      | WMATA    | ULSD with CRT filters                                                                                                 | X                     |             |           |     | 2006                        | Jun-06               | 0.2012 | 0.0000 | 0.4300 | 0.0000 | 0.4300 | 0.0000 | 0.3867 | 0.0000 | H (TCM)            |
| 144 |              | 2003-08      | DC       | Replace 23 12 Taxicabs with CNG cabs                                                                                  |                       |             |           | X   | 2005                        | 2006                 | 0.0085 | 0.0145 |        |        |        |        |        |        | H                  |
| 145 | X            | 2003-08      | DC       | D.C. Incident Response & Traffic Management System                                                                    | X                     |             |           |     | 2005                        | 2004                 | 0.0162 | 0.0405 | 0.0094 | 0.0130 | 0.0100 | 0.0168 | 0.0090 | 0.0114 | TR                 |
| 146 | X            | 2003-08      | DC       | Bicycle Lane in D. C. (35 Mile)                                                                                       | X                     |             |           |     | 2005                        | 2008                 | 0.0094 | 0.0078 | 0.0054 | 0.0032 | 0.0049 | 0.0027 | 0.0044 | 0.0018 | C (TCM)            |
| 147 | X            | 2003-08      | DC       | Bicycle Racks in D. C. (500)                                                                                          | X                     |             |           |     | 2005                        | 2004                 | 0.0013 | 0.0009 | 0.0008 | 0.0004 | 0.0007 | 0.0003 | 0.0006 | 0.0002 | C (TCM)            |
| 148 | X            | 2003-08      | DC       | External Bicycle Racks on WMATA Buses in D. C. (600)                                                                  | X                     |             |           |     | 2005                        | 2003                 | 0.0019 | 0.0028 | 0.0011 | 0.0012 | 0.0010 | 0.0010 | 0.0009 | 0.0007 | C (TCM)            |
| 149 |              | 2003-08      | DC       | CNG Rental Cars (18)                                                                                                  |                       |             |           | X   | 2005                        |                      | 0.0000 | 0.0002 |        |        |        |        |        |        | SP                 |
| 150 | X            | 2003-08      | DC       | Sidewalks in D.C. (\$ 5 million)                                                                                      | X                     |             |           |     | 2005                        | 2004                 | 0.0353 | 0.0510 | 0.0204 | 0.0213 | 0.0183 | 0.0177 | 0.0165 | 0.0120 | C                  |
| 151 | X            | 2003-08      | DC       | CNG Refuse Haulers (2)                                                                                                | X                     |             |           |     | 2005                        | 2004                 | 0.0000 | 0.0018 |        |        |        |        |        |        | H (TCM)            |
| 152 | X            | 2003-08      | DC       | Circulator /Feeder Bus Routes                                                                                         | X                     |             |           |     | 2005                        | 2003                 | 0.0129 | 0.0184 | 0.0074 | 0.0077 | 0.0067 | 0.0064 | 0.0060 | 0.0043 | C                  |
| 153 | X            | 2003-08      | MDOT     | Commuter Tax Credit                                                                                                   | X                     |             |           |     | 2005                        | n/a                  | 0.0771 | 0.1123 | 0.0445 | 0.0470 | 0.0399 | 0.0390 | 0.0359 | 0.0264 | C                  |
| 155 |              | 2003-08      | MDOT     | Employer Vanpool Program (WWB)                                                                                        |                       |             |           | X   | 2005                        |                      | 0.0018 | 0.0038 |        |        |        |        |        |        | C                  |
| 156 | X            | 2003-08      | MDOT     | Green Line Link                                                                                                       |                       |             | X         |     | 2005                        | n/a                  | 0.0025 | 0.0043 | 0.0015 | 0.0018 | 0.0013 | 0.0015 | 0.0012 | 0.0010 | C                  |
| 157 | X            | 2003-08      | MDOT     | Park & Ride Lots - Southern Maryland                                                                                  |                       |             | X         |     | 2005                        | 2005                 | 0.0049 | 0.0100 | 0.0028 | 0.0042 | 0.0025 | 0.0035 | 0.0023 | 0.0023 | C                  |
| 158 | X            | 2003-08      | MDOT     | Prince George's County- Bus Exp                                                                                       |                       |             | X         |     | 2005                        | n/a                  | 0.0354 | 0.0603 | 0.0204 | 0.0252 | 0.0183 | 0.0209 | 0.0165 | 0.0142 | C                  |
| 159 | X            | 2003-08      | MDOT     | MTA - Bus Service Expansion                                                                                           |                       |             | X         |     | 2005                        | n/a                  | 0.0080 | 0.0144 | 0.0046 | 0.0060 | 0.0041 | 0.0050 | 0.0037 | 0.0034 | C                  |
| 160 | X            | 2003-08      | MDOT     | Ride- On - Super Discount                                                                                             |                       |             | X         |     | 2005                        | n/a                  | 0.0009 | 0.0013 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0004 | 0.0003 | C                  |
| 161 | X            | 2003-08      | Regional | Regional Traveler Information Systems                                                                                 |                       |             | X         |     | 2005                        |                      | 0.1016 | 0.5282 | 0.0594 | 0.1701 | 0.0533 | 0.1157 | 0.0480 | 0.0785 | TR                 |
| 162 | X            | 2003-08      | MDOT     | Universal Transportation Access (MD + WMATA) Construction of 1300 additional Parking Spaces at Grosvenor Metro Garage | X                     |             |           |     | 2005                        | n/a                  | 0.0158 | 0.0229 | 0.0091 | 0.0096 | 0.0082 | 0.0079 | 0.0074 | 0.0054 | C                  |
| 163 | X            | 2003-08      | MCG      | Bethesda Shuttle Bus Services                                                                                         | X                     |             |           |     | 2004                        |                      | 0.0045 | 0.0096 | 0.0026 | 0.0040 | 0.0025 | 0.0036 | 0.0022 | 0.0025 | C (TCM)            |
| 164 | X            | 2003-08      | MCG      | External Bicycle Racks on Ride-On Buses in Montgomery County                                                          | X                     |             |           |     | 2004                        |                      | 0.0006 | 0.0009 | 0.0003 | 0.0004 | 0.0003 | 0.0003 | 0.0003 | 0.0002 | C                  |
| 166 | X            | 2003-08      | MCG      | New CNG Powered Light Duty Vehicle fleet in the County                                                                | X                     |             |           |     | 2004                        |                      | 0.0000 | 0.0001 |        |        |        |        |        |        | SP                 |
| 167 | X            | 2003-08      | MCG      | Free Bus Service on Selected Routes on I-270                                                                          | X                     |             |           |     | 2004                        |                      | 0.0011 | 0.0015 | 0.0006 | 0.0006 | 0.0005 | 0.0005 | 0.0005 | 0.0004 | C                  |
| 168 | X            | 2003-08      | MCG      | Annual Sidewalk Program                                                                                               | X                     |             |           |     | 2004                        |                      | 0.0168 | 0.0243 | 0.0097 | 0.0102 | 0.0087 | 0.0084 | 0.0078 | 0.0057 | C                  |
| 169 |              | 2003-08      | MDOT     | Bethesda Breeze/International Express Metrobus                                                                        |                       |             |           | X   | 2005                        | Removed              | 0.0037 | 0.0049 | 0.0021 | 0.0020 | 0.0019 | 0.0017 | 0.0017 | 0.0012 | C                  |
| 170 |              | 2003-08      | MDOT     | Bethesda-8, Silver Spring Downtown Dasher and Prince Georges Co. Shuttles at 3 PNR lot                                |                       |             |           | X   | 2005                        | Removed              | 0.0087 | 0.0096 | 0.0050 | 0.0040 | 0.0045 | 0.0033 | 0.0040 | 0.0023 | C                  |
| 171 |              | 2003-08      | MDOT     | Proposed Transportation Management District in Montgomery County (Rockville and Gaithersburg)                         |                       |             |           | X   | 2005                        | Removed              | 0.0057 | 0.0072 | 0.0033 | 0.0030 | 0.0029 | 0.0025 | 0.0026 | 0.0017 | C                  |
| 172 | X            | 2003-08      | MDOT     | Sidewalks (Bikes/Pedestrian) at / near Rail Stations                                                                  | X                     |             |           |     | 2005                        | 2002                 | 0.0092 | 0.0135 | 0.0053 | 0.0057 | 0.0048 | 0.0047 | 0.0043 | 0.0032 | C                  |
| 173 | X            | 2003-08      | MDOT     | Neighborhood Sidewalks Improvements (Bike/Pedestrian)                                                                 | X                     |             |           |     | 2005                        | 2004                 | 0.0032 | 0.0015 | 0.0018 | 0.0006 | 0.0017 | 0.0005 | 0.0015 | 0.0004 | C                  |
| 174 | X            | 2003-08      | MDOT     | Neighborhood Conservation Program - Neighborhood Sidewalks Improvements (Bikes/Pedestrian)                            |                       | X           |           |     | 2005                        | Ongoing              | 0.0028 | 0.0013 | 0.0016 | 0.0006 | 0.0015 | 0.0005 | 0.0013 | 0.0003 | C                  |
| 175 | X            | 2003-08      | MDOT     | Maryland bus Transit Service Expansion                                                                                | X                     |             |           |     | 2005                        | 2004                 | 0.0139 | 0.0296 | 0.0080 | 0.0124 | 0.0072 | 0.0103 | 0.0065 | 0.0070 | C                  |

### TERM TRACKING SHEET TRANSPORTATION EMISSION REDUCTION MEASURES Part A - Daily Ozone Precursor Emissions

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| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                           | IMPLEMENTATION STATUS |             |           |     | ORIGINAL AC COMPLETION DATE | TUAL COMPLETION DATE | 2011   |        | 2020   |        | 2030   |        | 2040   |        | Project Category * |
|-----|--------------|--------------|--------|-------------------------------------------------------------------|-----------------------|-------------|-----------|-----|-----------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
|     |              |              |        |                                                                   | FULL                  | SCALED-BACK | UNDER-WAY | REM |                             |                      | VOC    | NOX    | VOC    | NOX    | VOC    | NOX    | VOC    | NOX    |                    |
|     |              |              |        |                                                                   |                       |             |           |     |                             |                      |        |        |        |        |        |        |        |        |                    |
| 176 | X            | 2003-08      | VDOT   | Universal Transportation Access Program                           | X                     |             |           |     | 2005                        | 2005-07              | 0.0012 | 0.0017 | 0.0007 | 0.0007 | 0.0006 | 0.0006 | 0.0005 | 0.0004 | C                  |
| 177 | X            | 2003-08      | VDOT   | Interactive Rideshare & Kiosk Initiative                          |                       |             | X         |     | 2008 onward                 |                      | 0.0004 | 0.0007 | 0.0002 | 0.0003 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | C                  |
| 178 | X            | 2003-08      | VDOT   | Mobile Commuter Stores                                            | X                     |             |           |     | 2005                        | 2005                 | 0.0021 | 0.0036 | 0.0012 | 0.0015 | 0.0011 | 0.0012 | 0.0010 | 0.0008 | C                  |
| 179 | X            | 2003-08      | VDOT   | Telework Incentive Program (Telework VA) <sup>1</sup>             | X                     |             |           |     | 2005                        | Fall 2006            | 0.0007 | 0.0011 | 0.0004 | 0.0005 | 0.0004 | 0.0004 | 0.0003 | 0.0003 | C                  |
| 180 | X            | 2003-08      | VDOT   | Commuter Choice                                                   | X                     |             |           |     | 2005                        |                      | 0.0009 | 0.0013 | 0.0005 | 0.0005 | 0.0005 | 0.0004 | 0.0004 | 0.0003 | C                  |
| 181 | X            | 2003-08      | VDOT   | Employer Shuttle Services                                         |                       |             |           | X   | 2005                        |                      | 0.0112 | 0.0152 | 0.0065 | 0.0064 | 0.0058 | 0.0053 | 0.0052 | 0.0036 | C                  |
| 184 | X            | 2003-08      | VDOT   | Van Start / Van Save                                              | X                     |             |           |     | 2005                        | till 2006            | 0.0014 | 0.0024 |        |        |        |        |        |        | C                  |
| 185 | X            | 2003-08      | VDOT   | Metro Shuttle Bus                                                 |                       |             | X         |     | 2005                        | 1999-2005            | 0.0012 | 0.0024 | 0.0007 | 0.0010 | 0.0006 | 0.0008 | 0.0005 | 0.0006 | C                  |
| 187 | X            | 2003-08      | VDOT   | VRE Mid-Day Train Service                                         | X                     |             |           |     | 2005                        | 2002                 | 0.0016 | 0.0027 | 0.0009 | 0.0011 | 0.0008 | 0.0009 | 0.0007 | 0.0006 | C                  |
| 190 | X            | 2003-08      | VDOT   | Employer Vanpool Program (Bridge deck)                            | X                     |             |           |     | 2005                        | 2004 - 2008          | 0.0000 | 0.0000 |        |        |        |        |        |        | C                  |
| 191 | X            | 2003-08      | VDOT   | Town of Leesburg P&R Lot                                          | X                     |             |           |     | 2005                        | 2010                 | 0.0019 | 0.0036 | 0.0011 | 0.0015 | 0.0010 | 0.0012 | 0.0009 | 0.0008 | C                  |
| 192 | X            | 2003-08      | VDOT   | District-wide P&R Lots                                            | X                     |             |           |     | 2005                        | 2001-2005            | 0.0111 | 0.0205 | 0.0064 | 0.0086 | 0.0058 | 0.0071 | 0.0052 | 0.0048 | C                  |
| 193 | X            | 2003-08      | VDOT   | Additional Parking at 4 Metro stations                            | X                     |             |           |     | 2005                        | 2005                 | 0.0143 | 0.0306 | 0.0083 | 0.0128 | 0.0074 | 0.0106 | 0.0067 | 0.0072 | C                  |
| 196 | X            | 2003-08      | WMATA  | 64 CNG Buses (Purchased in 2001)                                  | X                     |             |           |     | 2005                        | 2004                 | 0.0020 | 0.0804 |        |        |        |        |        |        | SP (TCM)           |
| 197 | X            | 2003-08      | WMATA  | 250 CNG Buses (175 buses by Dec. 2004; 75 buses by mid 2006)      | X                     |             |           |     | 2005                        | Jun-06               | 0.0079 | 0.3139 |        |        |        |        |        |        | SP                 |
| 198 | X            | 2003-08      | WMATA  | 60 Engine Replacement (MY 1992 & 1993 MY buses)                   | X                     |             |           |     | 2004                        | 2004                 | 0.0132 | 0.0697 |        |        |        |        |        |        | SP                 |
| 199 | X            | 2003-08      | WMATA  | Car Sharing Program                                               | X                     |             |           |     | 2005                        | 2004                 | 0.0008 | 0.0017 | 0.0005 | 0.0007 | 0.0004 | 0.0006 | 0.0004 | 0.0004 | C                  |
| 200 | X            | 2003-08      | WMATA  | Bikes Racks on WMATA Buses in VA (372 Bike Racks)                 | X                     |             |           |     | 2005                        | 2004                 | 0.0012 | 0.0018 | 0.0007 | 0.0007 | 0.0006 | 0.0007 | 0.0006 | 0.0004 | C (TCM)            |
| 202 |              | 2003-08      | MDOT   | Fleet Replacement (state auto fleet, gas to hybrid, 250 vehicles) |                       |             |           | X   | 2005                        |                      | 0.005  | 0.012  | 0.0055 | 0.0133 |        |        |        |        | SP                 |
| 203 | X            | 2003-08      | MDOT   | Replace 55 Montgomery County 10 yr. old buses w/ new CNG buses    |                       |             | X         |     | 2005                        | Ongoing              | 0.0440 | 0.1503 | 0.0459 | 0.1628 |        |        |        |        | SP                 |
| 204 |              | 2003-08      | MDOT   | Neighborhood Bus Shuttle (5 circulator routes)                    |                       |             |           | X   | 2005                        |                      | 0.007  | 0.011  | 0.0043 | 0.0047 | 0.0038 | 0.0039 | 0.0034 | 0.0026 | C                  |
| 205 | X            | 2003-08      | MDOT   | New Surface Parking at Transit Centers (500 spaces)               |                       |             | X         |     | 2005                        | 2005                 | 0.0026 | 0.0055 | 0.0015 | 0.0023 | 0.0013 | 0.0019 | 0.0012 | 0.0013 | C                  |
| 206 |              | 2003-08      | MDOT   | Additional Bike Lockers at Metro-Stations                         |                       |             |           | X   | 2005                        |                      | 0.0130 | 0.0192 | 0.0075 | 0.0080 | 0.0067 | 0.0067 | 0.0061 | 0.0045 | C                  |
| 207 | X            | 2003-08      | MDOT   | Bike Facilities at PnR Lots or other similar location             |                       |             | X         |     | 2005                        | 2005                 | 0.0092 | 0.0152 | 0.0053 | 0.0064 | 0.0048 | 0.0053 | 0.0043 | 0.0036 | C                  |
| 208 |              | 2003-08      | MDOT   | CNG Fueling Stations                                              |                       |             |           | X   | 2005                        |                      | 0.1217 | 0.1080 |        |        |        |        |        |        | SP                 |
| 209 |              | 2003-08      | MDOT   | Gas cap replacements (ROP Credit)                                 |                       |             |           | X   | 2005                        |                      | N/A    | N/A    | N/A    | N/A    | N/A    | N/A    |        |        | SP                 |
| 210 |              | 2003-08      | MDOT   | Gas can turnover (ROP Credit)                                     |                       |             |           | X   | 2005                        |                      | N/A    | N/A    | N/A    | N/A    | N/A    | N/A    |        |        | SP                 |
| 211 | X            | 2003-08      | MDOT   | External Bicycle Racks on WMATA Buses (486 MD buses)              | X                     |             |           |     | 2005                        | 2002                 | 0.0014 | 0.0020 | 0.0008 | 0.0008 | 0.0007 | 0.0007 | 0.0006 | 0.0005 | C (TCM)            |
| 212 | X            | 2003-08      | MDOT   | Bike \ Pedestrian Trail - Anacostia River Walk                    |                       |             | X         |     | 2005                        | Ongoing              | 0.0006 | 0.0004 | 0.0003 | 0.0002 | 0.0003 | 0.0001 | 0.0003 | 0.0001 | C                  |
| 213 |              | 2003-08      | MDOT   | Transit Prioritization - Queue Jumps                              |                       |             |           | X   | 2005                        |                      | 0.003  | 0.003  | 0.0018 | 0.0014 | 0.0016 | 0.0012 | 0.0014 | 0.0008 | C                  |
| 214 | X            | 2003-08      | MDOT   | Commuter Choice Benefit/Tax Credit - Marketing Expansion          | X                     |             |           |     | 2005                        | Ongoing              | 0.0539 | 0.0789 | 0.0311 | 0.0330 | 0.0279 | 0.0274 | 0.0251 | 0.0186 | C                  |
| 215 | X            | 2003-08      | MDOT   | Improvements to Pedestrian Access in TOD areas (4 locations)      |                       |             | X         |     | 2005                        | Ongoing              | 0.0059 | 0.0080 | 0.0034 | 0.0033 | 0.0030 | 0.0028 | 0.0027 | 0.0019 | C                  |
| 216 | X            | 2003-08      | MDOT   | Telecommuting Expansion <sup>1</sup>                              | X                     |             |           |     | 2005                        | Ongoing              | 0.0636 | 0.1109 | 0.0367 | 0.0464 | 0.0330 | 0.0385 | 0.0296 | 0.0261 | C                  |
| 217 |              | 2003-08      | MDOT   | Replace older Diesel Engine in Public Sector vehicles             |                       |             |           | X   | 2005                        |                      | 0.0227 | 0.1200 |        |        |        |        |        |        | H                  |
| 218 | X            | 2003-08      | VDOT   | MV-92 Telecommuting Program - Expanded <sup>1</sup>               | X                     |             |           |     | 2005                        | 2005                 | 0.0680 | 0.1184 | 0.0392 | 0.0496 | 0.0352 | 0.0411 | 0.0316 | 0.0279 | C                  |

**TERM TRACKING SHEET**  
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| NOs                                | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                             | IMPLEMENTATION STATUS |             |           |     | ORIGINAL AC COMPLETION DATE | TUAL COMPLETION DATE | EMISSIONS                                      |              |              |              |              |              |              |              | Project Category * |
|------------------------------------|--------------|--------------|--------|---------------------------------------------------------------------|-----------------------|-------------|-----------|-----|-----------------------------|----------------------|------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|
|                                    |              |              |        |                                                                     | FULL                  | SCALED-BACK | UNDER-WAY | REM |                             |                      | 2011                                           |              | 2020         |              | 2030         |              | 2040         |              |                    |
|                                    |              |              |        |                                                                     |                       |             |           |     |                             |                      | VOC                                            | NOX          | VOC          | NOX          | VOC          | NOX          | VOC          | NOX          |                    |
| 219                                | X            | 2003-08      | VDOT   | MV-123 Employer Outreach for Public Sector Employees <sup>2</sup>   | X                     |             |           |     | 2005                        | 2003                 | 0.0151                                         | 0.0218       | 0.0087       | 0.0091       | 0.0078       | 0.0076       | 0.0070       | 0.0051       | C                  |
| 220                                | X            | 2003-08      | REGION | Signal System Optimization                                          | X                     |             |           |     | 2005                        | 2005                 | 0.4291                                         | 0.1476       | 0.2509       | 0.0475       | 0.2252       | 0.0324       | 0.2025       | 0.0219       | TR                 |
| 221                                | X            | 2007-12      | MDOT   | Two P & R Lots in Frederick County (99 spaces)                      | X                     |             |           |     | 2007                        | 2008                 | 0.0008                                         | 0.0016       | 0.0005       | 0.0007       | 0.0005       | 0.0005       | 0.0004       | 0.0004       | C                  |
| 222                                | X            | 2007-12      | MDOT   | MDOT P & R Lots at US 340 ( 66-99 spaces, Frederick Co.)            | X                     |             |           |     | 2007                        | 2007                 | Credits shown in TS 221 (for 99 spaces)        |              |              |              |              |              |              |              |                    |
| 223                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at US 340 & Mt Zion Rd. (37 spaces)             | X                     |             |           |     | 2008                        | 2008                 | 0.0006                                         | 0.0012       | 0.0004       | 0.0005       | 0.0003       | 0.0004       | 0.0003       | 0.0003       |                    |
| 224                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at US 340 & Mt Zion Rd. - expansion (39 spaces) |                       |             | X         |     | 2011                        | 2011                 | Credits included in TS 224 (for 37+ 39 spaces) |              |              |              |              |              |              |              |                    |
| 225                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at I 70 & MD 355 (100 spaces)                   |                       |             | X         |     | 2010                        | 2010                 | 0.0008                                         | 0.0016       | 0.0005       | 0.0007       | 0.0005       | 0.0006       | 0.0004       | 0.0004       |                    |
| 226                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at I 270 & MD 80 (164 spaces)                   | X                     |             |           |     | 2009                        | 2009                 | 0.0014                                         | 0.0026       | 0.0008       | 0.0011       | 0.0007       | 0.0009       | 0.0007       | 0.0006       |                    |
| 227                                | X            | 2008-13      | MDOT   | MDOT Syglal System Reviewing                                        |                       |             | X         |     | 2010                        | on-going             | Credits shown in Regional signal TERM - TS 220 |              |              |              |              |              |              |              |                    |
| 228                                | X            | 2008-13      | MDOT   | MDOT Takoma Langely Transit Center                                  |                       |             | X         |     | 2012                        | 2012                 | 0.0000                                         | 0.0000       | 0.0000       | 0.0000       | 0.0000       | 0.0000       | 0.0000       | 0.0000       |                    |
| <b>Available Emissions Credits</b> |              |              |        |                                                                     |                       |             |           |     |                             |                      | <b>2.353</b>                                   | <b>4.429</b> | <b>1.430</b> | <b>1.113</b> | <b>1.286</b> | <b>0.755</b> | <b>1.156</b> | <b>0.512</b> |                    |

**TRANSPORTATION EMISSION REDUCTION MEASURES (CLRP Projects Only)**  
**Part A - Daily Ozone Precursor Emissions**

Project Category: TR - Traffic Stream, C - Commute, H - Engine Technology (Heavy Dudy Vehicles), SP- Specific Vehicle Type

| NOs | CREDIT TAKEN | TIP CREDITED     | AGENCY | PROJECT                                       | IMPLEMENTATION STATUS |             |           |     | PROJECTED COMPLETION DATE | ACTUAL COMPLETION DATE | TONS/DAY REDUCTION CREDITED |        |         |        |        |        |        |        | Project Category |
|-----|--------------|------------------|--------|-----------------------------------------------|-----------------------|-------------|-----------|-----|---------------------------|------------------------|-----------------------------|--------|---------|--------|--------|--------|--------|--------|------------------|
|     |              |                  |        |                                               | FULL                  | SCALED-BACK | UNDER-WAY | REM |                           |                        | 2011                        |        | 2020    |        | 2030   |        | 2040   |        |                  |
|     |              |                  |        |                                               |                       |             |           |     |                           |                        | VOC                         | NOx    | VOC     | NOx    | VOC    | NOx    | VOC    | NOx    |                  |
| 221 | X            | 1995-00 TIP      | REGION | M-24 Speed Limit Adherence                    | X                     |             |           |     | 2010                      |                        | -0.0071                     | 0.2525 | -0.0021 | 0.1206 | 0.0005 | 0.0377 | 0.0005 | 0.0256 | TR               |
| 222 |              | 1996-01 TIP      | MGC    | Rock Spring Park Pedestrian Amenities         |                       |             |           |     |                           |                        | 0.0010                      | 0.0037 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -                |
| 223 | X            | 1996-01 TIP      | MGC    | Olney Transit Center Park and Ride            |                       |             |           |     | 2015                      |                        | 0.0019                      | 0.0074 | 0.0009  | 0.0030 | 0.0003 | 0.0007 | 0.0003 | 0.0005 | C                |
| 224 | X            | 1996-01 TIP      | MGC    | Damascus Park and Ride                        |                       |             |           |     |                           | 2003                   | 0.0010                      | 0.0037 | 0.0004  | 0.0015 | 0.0001 | 0.0003 | 0.0001 | 0.0002 | C                |
| 225 | X            | 1996-01 TIP      | DC     | M-103 Taxicab Replacement (DC)                |                       |             |           | X   | 2015                      |                        | 0.0000                      | 0.0000 | 0.1745  | 0.3000 | 0.3490 | 0.6000 | 0.3138 | 0.4070 | H                |
| 226 | X            | STADIUM ANALYSIS |        | M-103 Taxicab Replacement (MD)                |                       |             |           | X   | 2008                      |                        | 0.0000                      | 0.0000 | 0.1560  | 0.2400 | 0.1560 | 0.2400 | 0.1403 | 0.1628 | H                |
| 227 | X            | 1997-02 TIP      | MDOT   | Shady Grove West Transit Center Park and Ride |                       |             |           | X   |                           |                        | 0.0000                      | 0.0092 | 0.0000  | 0.0038 | 0.0000 | 0.0009 | 0.0000 | 0.0006 | C                |
| 228 | X            | 1997-02 TIP      | MGC    | Olney Transit Center Park and Ride            |                       |             |           |     | 2015                      |                        | 0.0000                      | 0.0000 | 0.0004  | 0.0012 | 0.0003 | 0.0007 | 0.0003 | 0.0005 | C                |
| 229 | X            | 1997-02 TIP      | MGC    | White Oak Park and Ride                       |                       |             |           |     | 2008                      |                        | 0.0000                      | 0.0185 | 0.0000  | 0.0076 | 0.0000 | 0.0017 | 0.0000 | 0.0012 | C                |
| 230 | X            | 1997-02 TIP      | MGC    | Damascus Park and Ride                        |                       |             |           |     |                           | 2003                   | 0.0000                      | 0.0000 | 0.0002  | 0.0005 | 0.0001 | 0.0003 | 0.0001 | 0.0002 | C                |
| 231 | X            | 1997-02 TIP      | MGC    | Four Corners Transit Center                   |                       |             |           |     | 2015                      |                        | 0.0000                      | 0.0009 | 0.0000  | 0.0004 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | C                |
| 232 |              | 1997-02 TIP      | MGC    | Burtonsville Transit Center                   |                       |             |           | X   |                           |                        | 0.0000                      | 0.0000 | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -                |
| 233 | X            | 1997-02 TIP      | MGC    | Silver Spring Transit Access                  |                       |             |           |     |                           |                        | 0.0000                      | 0.0009 | 0.0000  | 0.0003 | 0.0000 | 0.0002 | 0.0000 | 0.0001 | C                |
| 234 | X            | 1997-02 TIP      | MGC    | Shady Grove Parking Construction              |                       |             |           |     |                           | 2003                   | 0.0048                      | 0.0175 | 0.0021  | 0.0072 | 0.0007 | 0.0017 | 0.0007 | 0.0011 | C                |

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| PLAN TOTAL | 0.0005 | 0.3015 | 0.1764 | 0.4424 | 0.3512 | 0.6434 | 0.3158 | 0.4364 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|

|                                            |       |       |       |       |       |       |       |       |
|--------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| GRAND TOTAL (Current Measures + CLRP plan) | 2.354 | 4.730 | 1.606 | 1.555 | 1.637 | 1.398 | 1.472 | 0.949 |
|--------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

DEFINITIONS: Project Numbers implemented fully prior to 2000 were removed from the TERM Tracking Sheet

CREDIT TAKEN ( X means emissions reduction credits taken):

TIP - Emissions credits are taken for projects being implemented, according to the progress reporting schedules provided by the implementing agencies (contained in Appendix J of Conformity Document ). No credit has been taken for projects in which only some components of the measure have been implemented.

CLRP - Credit is taken for each of these elements of the CLRP according to the schedule provided by the implementing agency.

IMPLEMENTATION STATUS:

FULL = project is completed as planned at the time of analysis.

SCALED BACK = project is completed, but at a different level than assumed at the time of analysis (i.e., purchased 50 buses instead of 100)

UNDERWAY = project is not complete, but is close enough that credit may be taken (i.e., under construction, NOT just out for bid)

REMOVED = project no longer expected to be implemented or constructed

COMPLETION DATE:

PROJECTED = project completion date originally expected (i.e., at time of emissions analysis)

ACTUAL = actual year project was open for use, or expected to be open for use if under construction

REMOVED

projects Emissions credits are not counted in total available emissions credits

1 Line items 218, 216, 179, 92 are all credited as part of M-92 Regional Telecommute Support TERM, line item # 75

2 Line item 108 & 219 credits are taken only for year 2010

### TERM TRACKING SHEET TRANSPORTATION EMISSION REDUCTION MEASURES Part B - Yearly PM<sub>2.5</sub> and Precursor NOx Emissions

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                              | IMPLEMENTATION STATUS |             |           |     | ORIGINAL COMPLETION DATE | ACTUAL COMPLETION DATE | 2011              |               | 2020              |               | 2030              |               | 2040              |               | Project Category * |
|-----|--------------|--------------|--------|----------------------------------------------------------------------|-----------------------|-------------|-----------|-----|--------------------------|------------------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|--------------------|
|     |              |              |        |                                                                      | FULL                  | SCALED-BACK | UNDER-WAY | REM |                          |                        | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx |                    |
|     |              |              |        |                                                                      |                       |             |           |     |                          |                        |                   |               |                   |               |                   |               |                   |               |                    |
| 9   | X            | 1994-99      | MDOT   | Park & Ride Lot - MD 210/ MD 373                                     | X                     |             |           |     | 2000                     | 2003                   | 0.0094            | 0.3912        | 0.0095            | 0.1000        | 0.0095            | 0.0830        | 0.0092            | 0.0669        | C                  |
| 19  | X            | 1994-99      | PRTC   | VRE Woodbridge Parking Expansion (add 500 spaces)                    | X                     |             |           |     |                          | 2002-2003              | n/a               | n/a           | n/a               | n/a           | n/a               | n/a           |                   |               | -                  |
| 20  | X            | 1994-99      | ALEX   | King St. Metrorail access improvements                               | X                     |             |           |     |                          | 2006                   | 0.0094            | 0.3912        | 0.0095            | 0.1000        | 0.0095            | 0.0830        | 0.0092            | 0.0669        | C                  |
| 38  | X            | 1995-00      | MDOT   | Signal Systems - MD 85 Executive Way to MD 355                       | X                     |             |           |     | 1996                     | Pre 2000               | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | TR                 |
| 39  | X            | 1995-00      | MDOT   | Signal Systems - MD 355 J-70 ramps to Grove Rd.                      | X                     |             |           |     | 1996                     | n/a                    | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | TR                 |
| 44  | X            | 1995-00      | MDOT   | Signal Systems - MD 410, 62nd Ave. to Riverdale Rd.                  | X                     |             |           |     | 1996                     | 2002                   | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | TR                 |
| 48  | X            | 1995-00      | MDOT   | MARC Replacement Coaches                                             | X                     |             |           |     | 1999                     | 2004                   | 0.0094            | 0.3912        | 0.0095            | 0.1000        | 0.0095            | 0.0830        | 0.0092            | 0.0669        | C (TCM)            |
| 49  | X            | 1995-00      | MDOT   | MARC Expansion Coaches                                               | X                     |             |           |     | 1999                     | 2004                   | 0.0874            | 3.6515        | 0.0891            | 0.9332        | 0.0891            | 0.7745        | 0.0857            | 0.6247        | C (TCM)            |
| 51  | X            | 1995-00      | VDOT   | Alexandria Telecommuting Pilot Program                               | X                     |             |           |     |                          | 2000 & 2001            | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | C                  |
| 52  | X            | 1995-00      | VDOT   | Fairfax County Bus Shelter (Fairfax Co. TDM program)                 |                       |             | X         |     | 2000                     | 2001                   | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | C                  |
| 54  | X            | 1995-00      | VDOT   | City of Fairfax Bus Shelters                                         | X                     |             |           |     | 1999                     | 2004                   | 0.0031            | 0.1304        | 0.0032            | 0.0333        | 0.0032            | 0.0277        | 0.0031            | 0.0223        | C (TCM)            |
| 56  | X            | 1995-00      | VDOT   | Cherry Hill VRE Access                                               |                       |             | X         |     |                          | Jul-08                 | 0.0749            | 3.1299        | 0.0764            | 0.7999        | 0.0764            | 0.6639        | 0.0734            | 0.5354        | C (TCM)            |
| 58  | X            | 1995-00      | WMATA  | Bus Replacement (172 buses)                                          | X                     |             |           |     | 1998                     | 1998                   |                   |               |                   |               |                   |               |                   |               | SP (TCM)           |
| 59  | X            | 1995-00      | MCG    | Shady Grove West Park and Ride                                       |                       |             | X         |     | 2010                     |                        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | C                  |
| 60  | X            | 1995-00      | MCG    | White Oak Park and Ride                                              |                       |             | X         |     | 2010                     |                        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | C                  |
| 61  | X            | 1995-00      | MCG    | Bicycle Facilities                                                   |                       |             | X         |     | FY99                     |                        | 0.0062            | 0.2608        | 0.0064            | 0.0667        | 0.0064            | 0.0553        | 0.0061            | 0.0446        | C                  |
| 62  | X            | 1995-00      | MCG    | Pedestrian Facilities to Metrorail                                   |                       |             | X         |     |                          |                        | 0.0250            | 1.0433        | 0.0255            | 0.2666        | 0.0255            | 0.2213        | 0.0245            | 0.1785        | C                  |
| 63  | X            | 1995-00      | MDOT   | MARC Replacement Coaches                                             | X                     |             |           |     | 1999                     | 2004                   | 0.0375            | 1.5649        | 0.0382            | 0.4000        | 0.0382            | 0.3319        | 0.0367            | 0.2677        | C                  |
| 64  | X            | 1995-00      | MDOT   | MARC Expansion Coaches                                               | X                     |             |           |     | 1999                     | 2004                   | 0.3246            | 13.5628       | 0.3309            | 3.4663        | 0.3309            | 2.8768        | 0.3182            | 2.3202        | C (TCM)            |
| 66  | X            | 1995-00      | VDOT   | Commuter Lots - District Wide                                        |                       |             | X         |     | varies                   | 1995, 2001             | 0.1030            | 4.3036        | 0.1050            | 1.0999        | 0.1050            | 0.9128        | 0.1010            | 0.7362        | C                  |
| 67  | X            | 1995-00      | VDOT   | I-66 and Stringfellow Rd. Park and Ride                              | X                     |             |           |     | 2000                     | 2000 end               | 0.0624            | 2.6082        | 0.0636            | 0.6666        | 0.0636            | 0.5532        | 0.0612            | 0.4462        | C                  |
| 68  | X            | 1995-00      | VDOT   | Lake Ridge Park and Ride (now called Tacketts Mill lot)              | X                     |             |           |     |                          | 1999/2000              | 0.0312            | 1.3041        | 0.0318            | 0.3333        | 0.0318            | 0.2766        | 0.0306            | 0.2231        | C                  |
| 69  | X            | 1995-00      | VDOT   | Bicycle Trails and Facilities (Arlington & Fairfax Co - 7 locations) |                       |             | X         |     | varies                   | 2010-12                | 0.0531            | 2.2170        | 0.0541            | 0.5666        | 0.0541            | 0.4702        | 0.0520            | 0.3793        | C                  |
| 70  | X            | 1995-00      | VDOT   | Improved Access to Metrorail Stations (VRE 2 Stn)                    |                       |             | X         |     | varies                   | 2000-2012              | 0.0031            | 0.1304        | 0.0032            | 0.0333        | 0.0032            | 0.0277        | 0.0031            | 0.0223        | C                  |
| 71  | X            | 1995-00      | VDOT   | I-66 HOV access at Monument Dr.                                      | X                     |             |           |     |                          | 1997                   | 0.0624            | 2.6082        | 0.0636            | 0.6666        | 0.0636            | 0.5532        | 0.0612            | 0.4462        | C                  |
| 72  | X            | 1995-00      | DC     | Bicycle Facilities                                                   | X                     |             |           |     |                          |                        | 0.0624            | 2.6082        | 0.0636            | 0.6666        | 0.0636            | 0.5532        | 0.0612            | 0.4462        | C                  |
| 73  | X            | 1995-00      | REGION | COG Regional Ridesharing Support                                     | X                     |             |           |     |                          | on-going               | 1.7573            | 69.8906       | 1.7913            | 17.8484       | 1.7913            | 14.9204       | 1.7226            | 12.0338       | C                  |
| 74  | X            | 1995-00      | REGION | M-47 Integrated Ridesharing                                          | X                     |             |           |     |                          | on-going               | 0.6082            | 24.3995       | 0.6199            | 6.2319        | 0.6199            | 5.2028        | 0.5961            | 4.1962        | C                  |
| 75  | X            | 1995-00      | REGION | M-92 Telecommuting Support                                           | X                     |             |           |     |                          | on-going               | 1.2638            | 51.9120       | 1.2883            | 13.2638       | 1.2883            | 11.0351       | 1.2388            | 8.9002        | C                  |
| 77  |              | 1996-01      | VDOT   | Duke Street Pedestrian Bridge                                        | X                     |             |           |     | 2005                     | 2007                   | n/a               | n/a           | n/a               | n/a           | n/a               | n/a           |                   |               | -                  |
| 79  | X            | 1996-01      | VDOT   | Fairfax County Bus Shelters (30 shelters with project #85)           |                       |             | X         |     | 1999                     | Summer 2001            | 0.0094            | 0.3912        | 0.0095            | 0.1000        | 0.0095            | 0.0830        | 0.0092            | 0.0669        | C                  |

### TERM TRACKING SHEET TRANSPORTATION EMISSION REDUCTION MEASURES Part B - Yearly PM<sub>2.5</sub> and Precursor NOx Emissions

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                               | IMPLEMENTATION STATUS  |             |           |     | ORIGINAL COMPLETION DATE | ACTUAL COMPLETION DATE | 2011                           |               | 2020              |               | 2030              |               | 2040              |               | Project Category * |
|-----|--------------|--------------|--------|-----------------------------------------------------------------------|------------------------|-------------|-----------|-----|--------------------------|------------------------|--------------------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|--------------------|
|     |              |              |        |                                                                       | FULL                   | SCALED-BACK | UNDER-WAY | REM |                          |                        | PM <sub>2.5</sub>              | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx |                    |
|     |              |              |        |                                                                       |                        |             |           |     |                          |                        |                                |               |                   |               |                   |               |                   |               |                    |
| 81  | X            | 1996-01      | VDOT   | Arlington County Metrocheck Program                                   | X                      |             |           |     | 1997                     | 1997 Onwards           | 0.0094                         | 0.3912        | 0.0095            | 0.1000        | 0.0095            | 0.0830        | 0.0092            | 0.0669        | C                  |
| 82  | X            | 1996-01      | VDOT   | Old Dominion Drive Bike Trail                                         |                        |             | X         |     | 2000                     | 2010-11                | 0.0031                         | 0.1304        | 0.0032            | 0.0333        | 0.0032            | 0.0277        | 0.0031            | 0.0223        | C                  |
| 83  | X            | 1996-01      | WMATA  | Bus Replacement (see line 58, above)                                  | X                      |             |           |     |                          | 1998                   | Credit taken in line 58, above |               |                   |               |                   |               |                   |               | SP                 |
| 85  | X            | 1996-01      | VDOT   | Fairfax County Bus Shelters (30 shelters with project #79)            | X                      |             |           |     | 1999                     | 2001                   | 0.0031                         | 0.1304        | 0.0032            | 0.0333        | 0.0032            | 0.0277        | 0.0031            | 0.0223        | C                  |
| 90  | X            | 1996-01      | REGION | M-47c Employer Outreach / Guaranteed Ride Home                        | X                      |             |           |     |                          | on-going               | 3.6555                         | 150.9969      | 3.7262            | 38.5840       | 3.7262            | 32.0744       | 3.5832            | 25.8692       | C                  |
| 91  | X            | 1996-01      | REGION | M-70a Bicycle Parking                                                 |                        |             | X         |     | 1999                     |                        | 0.0219                         | 0.9129        | 0.0223            | 0.2333        | 0.0223            | 0.1936        | 0.0214            | 0.1562        | C                  |
| 92  | X            |              |        | M-92 Telecommuting Support <sup>1</sup>                               | Combined with item #75 |             |           |     |                          |                        |                                |               |                   |               |                   |               |                   |               | C                  |
| 95  | X            | 1997-02      | MCG    | Germantown Transit Center                                             | X                      |             |           |     | 2005                     |                        | 0.0593                         | 2.4778        | 0.0605            | 0.6333        | 0.0605            | 0.5256        | 0.0581            | 0.4239        | C (TCM)            |
| 102 | X            | 1997-02      | PG     | Prince George's County Bus Replacement                                | X                      |             |           |     | 1998                     | 1998                   |                                |               |                   |               |                   |               |                   |               | SP (TCM)           |
| 106 | X            | 1997-02      | VDOT   | PRTC Employer Commuting Outreach Program                              | X                      |             |           |     |                          | 1977 on-going          | 0.0016                         | 0.0652        | 0.0016            | 0.0167        | 0.0016            | 0.0138        | 0.0015            | 0.0112        | C                  |
| 107 | X            | 1997-02      | VDOT   | PRTC Multimodal Strategic Marketing Implementation Plan               | X                      |             |           |     |                          | 1977 on-going          | 0.0016                         | 0.0652        | 0.0016            | 0.0167        | 0.0016            | 0.0138        | 0.0015            | 0.0112        | C                  |
| 108 | X            | 1997-02      | MDOT   | M-103 Taxicab Replacement in Maryland <sup>2</sup>                    | X                      |             |           |     | 2005                     | Stopped                |                                |               |                   |               |                   |               |                   |               | SP                 |
| 109 | X            | 1997-02      | REGION | M-70b Employer Outreach for Bicycles                                  | X                      |             |           |     | 1998                     | on going               | 0.0034                         | 0.1650        | 0.0035            | 0.0423        | 0.0035            | 0.0344        | 0.0034            | 0.0278        | C                  |
| 110 |              | 1997-02      | VDOT   | M-77b Vanpool Incentive Programs in Virginia                          |                        |             |           | X   | 1999                     | delayed                | n/a                            | n/a           | n/a               | n/a           | n/a               | n/a           |                   |               | C                  |
| 111 | X            | 1998-03      | WMATA  | Bus Replacement (108 buses)                                           | X                      |             |           |     | 1999                     | 1999                   |                                |               |                   |               |                   |               |                   |               | SP                 |
| 112 | X            | 1998-03      | MCG    | Montgomery County Bus Replacement                                     | X                      |             |           |     |                          | Ongoing                |                                |               |                   |               |                   |               |                   |               | SP                 |
| 113 | X            | 1998-03      | PG     | Prince George's County Bus Replacement                                | X                      |             |           |     | 1998                     | Ongoing                |                                |               |                   |               |                   |               |                   |               | SP                 |
| 114 | X            | 1998-03      | FDC    | Frederick County Bus Replacement                                      | X                      |             |           |     |                          |                        |                                |               |                   |               |                   |               |                   |               | SP                 |
| 117 | X            | 1998-03      | VDOT   | Arlington County Four Mile Run Bike Trail                             | X                      |             |           |     | 1999                     | 2009                   | 0.0031                         | 0.1304        | 0.0032            | 0.0333        | 0.0032            | 0.0277        | 0.0031            | 0.0223        | C                  |
| 118 | X            | 1998-03      | VDOT   | Northern Virginia Turn Bays                                           | X                      |             |           |     | 2000                     | 1998                   | 0.0055                         | 0.2295        | 0.0056            | 0.0587        | 0.0056            | 0.0487        | 0.0054            | 0.0393        | TR                 |
| 119 | X            | 1998-03      | VDOT   | Fairfax City Bus Replacement                                          | X                      |             |           |     | 2001                     | 2003                   |                                |               |                   |               |                   |               |                   |               | SP                 |
| 121 | X            | 1998-03      | WMATA  | WMATA Bus Replacement (252 buses)                                     | X                      |             |           |     | 2001                     | 2001                   |                                |               |                   |               |                   |               |                   |               | SP                 |
| 122 | X            | 97 & 98 TIP  | REGION | M-101a Mass Marketing Campaign (Consumer)                             |                        |             |           | X   |                          | 2005                   | 0.211624493                    | 8.4931        | 0.2157            | 2.1692        | 0.2157            | 1.8109        | 0.2074            | 1.4606        | C                  |
| 123 | X            | 1999-04      | MDOT   | Various Park and Ride Lots(I-270/MD124, 450 & I-170/MD-75, 54 spaces) |                        | X           |           |     | 2001/1999                | 2001                   | 0.1124                         | 4.6948        | 0.1146            | 1.1999        | 0.1146            | 0.9958        | 0.1102            | 0.8032        | C                  |
| 124 | X            | 1999-04      | MDOT   | Signal Systems (197/MD-198, MD-382 TO US-301,US301)                   | X                      |             |           |     | 2000                     | 2002                   | -0.0110                        | -0.4591       | -0.0112           | -0.1173       | -0.0112           | -0.0974       | -0.0108           | -0.0785       | TR                 |
| 125 | X            | 1999-04      | VDOT   | Transit Center at 7 Corners                                           | X                      |             |           |     | 2002                     | 2001                   | 0.0062                         | 0.2608        | 0.0064            | 0.0667        | 0.0064            | 0.0553        | 0.0061            | 0.0446        | C                  |
| 126 | X            | 1999-04      | VDOT   | Falls Church Clean Diesel Bus Service                                 | X                      |             |           |     | 2000                     | 2003                   |                                |               |                   |               |                   |               |                   |               | SP                 |
| 127 | X            | 1999-04      | VDOT   | VA 234 Bike Trail                                                     |                        |             | X         |     | 2001                     | 2010                   | 0.0000                         | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | C                  |
| 128 | X            | 1999-04      | VDOT   | PRTC Ridesharing                                                      | X                      |             |           |     | on-going                 | 2000 ongoing           | 0.0000                         | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | C                  |
| 130 | X            | 1996-01      | VDOT   | M-14: I-66 Feeder Bus Fare Buy Down                                   | X                      |             |           |     |                          | 1998 onward            | 0.1717                         | 7.1726        | 0.1750            | 1.8331        | 0.1750            | 1.5214        | 0.1683            | 1.2270        | C                  |
| 131 | X            | 2000-05      | MDOT   | Various park and Ride Lots                                            | X                      |             |           |     | 2002                     | 2003                   | 0.1015                         | 4.2398        | 0.1035            | 1.0836        | 0.1035            | 0.8993        | 0.0995            | 0.7253        | C                  |

### TERM TRACKING SHEET TRANSPORTATION EMISSION REDUCTION MEASURES Part B - Yearly PM<sub>2.5</sub> and Precursor NOx Emissions

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY   | PROJECT                                                                  | IMPLEMENTATION STATUS |             |           |     | ORIGINAL COMPLETION DATE | ACTUAL COMPLETION DATE | 2011              |               | 2020              |               | 2030              |               | 2040              |               | Project Category * |
|-----|--------------|--------------|----------|--------------------------------------------------------------------------|-----------------------|-------------|-----------|-----|--------------------------|------------------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|--------------------|
|     |              |              |          |                                                                          | FULL                  | SCALED-BACK | UNDER-WAY | REM |                          |                        | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx |                    |
|     |              |              |          |                                                                          |                       |             |           |     |                          |                        |                   |               |                   |               |                   |               |                   |               |                    |
| 132 | X            | 2000-05      | MDOT     | Signal Systems                                                           | X                     |             |           |     | Varies                   | on-going               | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | TR                 |
| 133 | X            | 2000-05      | VDOT     | 250 Spaces at Gambrill/Hoopes Rds. Park and Ride                         | X                     |             |           |     | 2002                     | 2004                   | 0.0562            | 2.3474        | 0.0573            | 0.5999        | 0.0573            | 0.4979        | 0.0551            | 0.4016        | C                  |
| 134 | X            | 2000-05      | VDOT     | 300 Spaces at Backlick Rd                                                | X                     |             |           |     | 2003                     | 2007                   | 0.0406            | 1.6954        | 0.0414            | 0.4333        | 0.0414            | 0.3596        | 0.0398            | 0.2900        | C                  |
| 135 | X            | 2000-05      | VDOT     | Accotink-Gateway Connector Trail                                         | X                     |             |           |     | 2002                     | 2005                   | 0.0312            | 1.3041        | 0.0318            | 0.3333        | 0.0318            | 0.2766        | 0.0306            | 0.2231        | C                  |
| 136 | X            | 2000-05      | VDOT     | Columbia Pike Trail                                                      |                       |             |           | X   | 2000                     | 2009                   | 0.0250            | 1.0433        | 0.0255            | 0.2666        | 0.0255            | 0.2213        | 0.0245            | 0.1785        | C                  |
| 137 | X            | 2000-05      | VDOT     | Lee Highway trail                                                        | X                     |             |           |     | 2000                     | 2007                   | 0.0125            | 0.5216        | 0.0127            | 0.1333        | 0.0127            | 0.1106        | 0.0122            | 0.0892        | C                  |
| 138 | X            | 2000-05      | VDOT     | Arlington Bus Shelter Improvements                                       | X                     |             |           |     | 2005                     | 2005                   | 0.0031            | 0.1304        | 0.0032            | 0.0333        | 0.0032            | 0.0277        | 0.0031            | 0.0223        | C                  |
| 139 | X            | 2000-05      | VDOT     | Pentagon Metrostation Improvements                                       | X                     |             |           |     |                          | 2003                   | 0.0531            | 2.2170        | 0.0541            | 0.5666        | 0.0541            | 0.4702        | 0.0520            | 0.3793        | C                  |
| 140 | X            | 2000-05      | MDOT     | East/West Intersection Improvements                                      |                       |             |           | X   | 2005                     | 2005                   | 0.0780            | 3.2603        | 0.0795            | 0.8332        | 0.0795            | 0.6915        | 0.0765            | 0.5577        | C                  |
| 141 | X            | 2001-06      | Feds     | Federal Transit/Ridesharing subsidy                                      | X                     |             |           |     | on-going                 |                        | 0.5962            | 24.9086       | 0.6078            | 6.3660        | 0.6078            | 5.2833        | 0.5844            | 4.2612        | C                  |
| 142 | X            | 2002-07      | WMATA    | 100 CNG buses                                                            | X                     |             |           |     | 2002                     |                        |                   |               |                   |               |                   |               |                   |               | SP (TCM)           |
| 143 | X            | 2002-07      | WMATA    | ULSD with CRT filters                                                    | X                     |             |           |     | 2006                     | Jun-06                 | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | H (TCM)            |
| 144 |              | 2003-08      | DC       | Replace 29 12 Taxicabs with CNG cabs                                     |                       |             |           | X   | 2005                     | 2006                   |                   |               |                   |               |                   |               |                   |               | H                  |
| 145 | X            | 2003-08      | DC       | D.C.Incident Response & TrafficManagement System                         | X                     |             |           |     | 2005                     | 2004                   | 0.2709            | 11.3165       | 0.2761            | 2.8922        | 0.2761            | 2.4003        | 0.2655            | 1.9359        | TR                 |
| 146 | X            | 2003-08      | DC       | Bicycle Lane in D. C. (35 Mile)                                          | X                     |             |           |     | 2005                     | 2008                   | 0.0420            | 2.3903        | 0.0428            | 0.6134        | 0.0428            | 0.4896        | 0.0411            | 0.3949        | C (TCM)            |
| 147 | X            | 2003-08      | DC       | Bicycle Racks in D. C. (500)                                             | X                     |             |           |     | 2005                     | 2004                   | 0.0039            | 0.2720        | 0.0040            | 0.0699        | 0.0040            | 0.0547        | 0.0038            | 0.0441        | C (TCM)            |
| 148 | X            | 2003-08      | DC       | External Bicycle Racks on WMATA Buses in D. C. (600)                     | X                     |             |           |     | 2005                     | 2003                   | 0.0202            | 0.8493        | 0.0206            | 0.2171        | 0.0206            | 0.1800        | 0.0198            | 0.1452        | C (TCM)            |
| 149 |              | 2003-08      | DC       | CNG Rental Cars (18)                                                     |                       |             |           | X   | 2005                     |                        |                   |               |                   |               |                   |               |                   |               | SP                 |
| 150 | X            | 2003-08      | DC       | Sidewalks in D.C. (\$ 5 million)                                         | X                     |             |           |     | 2005                     | 2004                   | 0.3618            | 15.2986       | 0.3688            | 3.9106        | 0.3688            | 3.2400        | 0.3547            | 2.6131        | C                  |
| 151 | X            | 2003-08      | DC       | CNG Refuse Haulers (2)                                                   | X                     |             |           |     | 2005                     | 2004                   |                   |               |                   |               |                   |               |                   |               | H (TCM)            |
| 152 | X            | 2003-08      | DC       | Circulator /Feeder Bus Routes                                            | X                     |             |           |     | 2005                     | 2003                   | 0.1300            | 5.5181        | 0.1325            | 1.4106        | 0.1325            | 1.1681        | 0.1275            | 0.9421        | C                  |
| 153 | X            | 2003-08      | MDOT     | Commuter Tax Credit                                                      | X                     |             |           |     | 2005                     | n/a                    | 0.7990            | 33.6796       | 0.8145            | 8.6087        | 0.8145            | 7.1356        | 0.7832            | 5.7551        | C                  |
| 155 |              | 2003-08      | MDOT     | Employer Vanpool Program (WWB)                                           |                       |             |           | X   | 2005                     |                        |                   |               |                   |               |                   |               |                   |               | C                  |
| 156 | X            | 2003-08      | MDOT     | Green Line Link                                                          |                       |             |           | X   | 2005                     | n/a                    | 0.0320            | 1.2827        | 0.0326            | 0.3276        | 0.0326            | 0.2735        | 0.0314            | 0.2206        | C                  |
| 157 | X            | 2003-08      | MDOT     | Park & Ride Lots - Southern Maryland                                     |                       |             |           | X   | 2005                     | 2005                   | 0.0690            | 2.6365        | 0.0704            | 0.6728        | 0.0704            | 0.5660        | 0.0677            | 0.4565        | C                  |
| 158 | X            | 2003-08      | MDOT     | Prince George's County- Bus Exp                                          |                       |             |           | X   | 2005                     | n/a                    | 0.4487            | 17.9877       | 0.4574            | 4.5942        | 0.4574            | 3.8360        | 0.4398            | 3.0939        | C                  |
| 159 | X            | 2003-08      | MDOT     | MTA - Bus Service Expansion                                              |                       |             |           | X   | 2005                     | n/a                    | 0.1087            | 4.2903        | 0.1108            | 1.0955        | 0.1108            | 0.9168        | 0.1065            | 0.7394        | C                  |
| 160 | X            | 2003-08      | MDOT     | Ride- On - Super Discount                                                |                       |             |           | X   | 2005                     | n/a                    | 0.0092            | 0.3892        | 0.0094            | 0.0995        | 0.0094            | 0.0824        | 0.0090            | 0.0665        | C                  |
| 161 | X            | 2003-08      | Regional | Regional Traveler Information Systems                                    |                       |             |           | X   | 2005                     |                        | 3.5324            | 147.5732      | 3.6007            | 37.7158       | 3.6007            | 31.3014       | 3.4626            | 25.2457       | TR                 |
| 162 | X            | 2003-08      | MDOT     | Universal Transportation Access (MD + WMATA)                             |                       |             |           | X   | 2005                     | n/a                    | 0.1622            | 6.8595        | 0.1654            | 1.7534        | 0.1654            | 1.4527        | 0.1590            | 1.1717        | C                  |
| 163 | X            | 2003-08      | MCG      | Construction of 1300 additional Parking Spaces at Grosvenor Metro Garage | X                     |             |           |     | 2004                     |                        | 0.0751            | 2.8445        | 0.0765            | 0.7258        | 0.0765            | 0.6113        | 0.0736            | 0.4930        | C (TCM)            |



**TERM TRACKING SHEET**  
**TRANSPORTATION EMISSION REDUCTION MEASURES**  
**Part B - Yearly PM<sub>2.5</sub> and Precursor NOx Emissions**

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                                                       | IMPLEMENTATION STATUS |             |           |     | ORIGINAL COMPLETION DATE | ACTUAL COMPLETION DATE | 2011              |               | 2020              |               | 2030              |               | 2040              |               | Project Category * |
|-----|--------------|--------------|--------|-----------------------------------------------------------------------------------------------|-----------------------|-------------|-----------|-----|--------------------------|------------------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|--------------------|
|     |              |              |        |                                                                                               | FULL                  | SCALED-BACK | UNDER-WAY | REM |                          |                        | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx |                    |
|     |              |              |        |                                                                                               |                       |             |           |     |                          |                        |                   |               |                   |               |                   |               |                   |               |                    |
| 164 | X            | 2003-08      | MCG    | Bethesda Shuttle Bus Services                                                                 | X                     |             |           |     | 2004                     |                        | 0.0310            | 1.3151        | 0.0316            | 0.3362        | 0.0316            | 0.2784        | 0.0304            | 0.2245        | C                  |
| 165 | X            | 2003-08      | MCG    | External Bicycle Racks on Ride-On Buses in Montgomery County                                  | X                     |             |           |     | 2004                     |                        | 0.0063            | 0.2649        | 0.0064            | 0.0677        | 0.0064            | 0.0561        | 0.0062            | 0.0453        | C                  |
| 166 | X            | 2003-08      | MCG    | New CNG Powered Light Duty Vehicle fleet in the County                                        | X                     |             |           |     | 2004                     |                        |                   |               |                   |               |                   |               |                   |               | SP                 |
| 167 | X            | 2003-08      | MCG    | Free Bus Service on Selected Routes on I-270                                                  | X                     |             |           |     | 2004                     |                        | 0.0108            | 0.4555        | 0.0110            | 0.1164        | 0.0110            | 0.0965        | 0.0106            | 0.0778        | C                  |
| 168 | X            | 2003-08      | MCG    | Annual Sidewalk Program                                                                       | X                     |             |           |     | 2004                     |                        | 0.1723            | 7.2850        | 0.1756            | 1.8622        | 0.1756            | 1.5428        | 0.1689            | 1.2444        | C                  |
| 169 |              | 2003-08      | MDOT   | Bethesda Breeze/International Express Metrobus                                                |                       |             |           | X   | 2005                     | Removed                | 0.0338            | 1.4723        | 0.0345            | 0.3765        | 0.0345            | 0.3107        | 0.0332            | 0.2506        | C                  |
| 170 |              | 2003-08      | MDOT   | Bethesda-B, Silver Spring Downtown Dasher and Prince Georges Co. Shuttles at 3 PNR lot        |                       |             |           | X   | 2005                     | Removed                | 0.0611            | 2.9008        | 0.0623            | 0.7427        | 0.0623            | 0.6058        | 0.0599            | 0.4886        | C                  |
| 171 |              | 2003-08      | MDOT   | Proposed Transportation Management District in Montgomery County (Rockville and Gaithersburg) |                       |             |           | X   | 2005                     | Removed                | 0.0486            | 2.1622        | 0.0496            | 0.5531        | 0.0496            | 0.4550        | 0.0476            | 0.3670        | C                  |
| 172 | X            | 2003-08      | MDOT   | Sidewalks (Bikes/Pedestrian) at / near Rail Stations                                          | X                     |             |           |     | 2005                     | 2002                   | 0.0964            | 4.0484        | 0.0983            | 1.0347        | 0.0983            | 0.8581        | 0.0945            | 0.6921        | C                  |
| 173 | X            | 2003-08      | MDOT   | Neighborhood Sidewalks Improvements (Bike/Pedestrian)                                         | X                     |             |           |     | 2005                     | 2004                   | 0.0037            | 0.4876        | 0.0038            | 0.1259        | 0.0038            | 0.0944        | 0.0036            | 0.0761        | C                  |
| 174 | X            | 2003-08      | MDOT   | Neighborhood Conservation Program - Neighborhood Sidewalks Improvements (Bikes/Pedestrian)    |                       | X           |           |     | 2005                     | Ongoing                | 0.0033            | 0.4266        | 0.0033            | 0.1102        | 0.0033            | 0.0826        | 0.0032            | 0.0666        | C                  |
| 175 | X            | 2003-08      | MDOT   | Maryland bus Transit Service Expansion                                                        | X                     |             |           |     | 2005                     | 2004                   | 0.2321            | 8.7946        | 0.2366            | 2.2442        | 0.2366            | 1.8900        | 0.2275            | 1.5243        | C                  |
| 176 | X            | 2003-08      | VDOT   | Universal Transportation Access Program                                                       | X                     |             |           |     | 2005                     | 2005-07                | 0.0122            | 0.5144        | 0.0124            | 0.1315        | 0.0124            | 0.1090        | 0.0120            | 0.0879        | C                  |
| 177 | X            | 2003-08      | VDOT   | Interactive Rideshare & Kiosk Initiative                                                      |                       |             | X         |     | 2008 onward              |                        | 0.0048            | 0.1943        | 0.0049            | 0.0496        | 0.0049            | 0.0414        | 0.0048            | 0.0334        | C                  |
| 178 | X            | 2003-08      | VDOT   | Mobile Commuter Stores                                                                        | X                     |             |           |     | 2005                     | 2005                   | 0.0268            | 1.0743        | 0.0273            | 0.2744        | 0.0273            | 0.2291        | 0.0263            | 0.1848        | C                  |
| 179 | X            | 2003-08      | VDOT   | Telework Incentive Program (Telework VA) <sup>1</sup>                                         | X                     |             |           |     | 2005                     | Fall 2006              | 0.0079            | 0.3283        | 0.0080            | 0.0839        | 0.0080            | 0.0696        | 0.0077            | 0.0562        | C                  |
| 180 | X            | 2003-08      | VDOT   | Commuter Choice                                                                               | X                     |             |           |     | 2005                     |                        | 0.0089            | 0.3862        | 0.0091            | 0.0988        | 0.0091            | 0.0816        | 0.0088            | 0.0658        | C                  |
| 181 | X            | 2003-08      | VDOT   | Employer Shuttle Services                                                                     |                       |             |           | X   | 2005                     |                        | 0.1060            | 4.5846        | 0.1081            | 1.1723        | 0.1081            | 0.9682        | 0.1039            | 0.7809        | C                  |
| 184 | X            | 2003-08      | VDOT   | Van Start / Van Save                                                                          | X                     |             |           |     | 2005                     | till 2006              |                   |               |                   |               |                   |               |                   |               | C                  |
| 185 | X            | 2003-08      | VDOT   | Metro Shuttle Bus                                                                             |                       |             | X         |     | 2005                     | 1999-2005              | 0.0184            | 0.7031        | 0.0188            | 0.1794        | 0.0188            | 0.1509        | 0.0180            | 0.1217        | C                  |
| 187 | X            | 2003-08      | VDOT   | VRE Mid-Day Train Service                                                                     | X                     |             |           |     | 2005                     | 2002                   | 0.0200            | 0.7986        | 0.0204            | 0.2040        | 0.0204            | 0.1704        | 0.0196            | 0.1374        | C                  |
| 190 | X            | 2003-08      | VDOT   | Employer Vanpool Program (Bridge deck)                                                        | X                     |             |           |     | 2005                     | 2004 - 2008            |                   |               |                   |               |                   |               |                   |               | C                  |
| 191 | X            | 2003-08      | VDOT   | Town of Leesburg P&R Lot                                                                      | X                     |             |           |     | 2005                     | 2010                   | 0.0274            | 1.0695        | 0.0280            | 0.2730        | 0.0280            | 0.2289        | 0.0269            | 0.1847        | C                  |
| 192 | X            | 2003-08      | VDOT   | District-wide P&R Lots                                                                        | X                     |             |           |     | 2005                     | 2001-2005              | 0.1558            | 6.1114        | 0.1589            | 1.5604        | 0.1589            | 1.3072        | 0.1528            | 1.0543        | C                  |
| 193 | X            | 2003-08      | VDOT   | Additional Parking at 4 Metro stations                                                        | X                     |             |           |     | 2005                     | 2005                   | 0.2394            | 9.0718        | 0.2440            | 2.3149        | 0.2440            | 1.9495        | 0.2347            | 1.5724        | C                  |
| 196 | X            | 2003-08      | WMATA  | 64 CNG Buses (Purchased in 2001)                                                              | X                     |             |           |     | 2005                     | 2004                   |                   |               |                   |               |                   |               |                   |               | SP (TCM)           |
| 197 | X            | 2003-08      | WMATA  | 250 CNG Buses (175 buses by Dec. 2004; 75 buses by mid 2006)                                  | X                     |             |           |     | 2005                     | Jun-06                 |                   |               |                   |               |                   |               |                   |               | SP                 |
| 198 | X            | 2003-08      | WMATA  | 60 Engine Replacement (MY 1992 & 1993 MY buses)                                               | X                     |             |           |     | 2004                     | 2004                   |                   |               |                   |               |                   |               |                   |               | SP                 |
| 199 | X            | 2003-08      | WMATA  | Car Sharing Program                                                                           | X                     |             |           |     | 2005                     | 2004                   | 0.0130            | 0.4933        | 0.0133            | 0.1259        | 0.0133            | 0.1060        | 0.0128            | 0.0855        | C                  |
| 200 | X            | 2003-08      | WMATA  | Bikes Racks on WMATA Buses in VA (372 Bike Racks)                                             | X                     |             |           |     | 2005                     | 2004                   | 0.0126            | 0.5280        | 0.0128            | 0.1350        | 0.0128            | 0.1119        | 0.0123            | 0.0903        | C (TCM)            |
| 202 |              | 2003-08      | MDOT   | Fleet Replacement (state auto fleet, gas to hybrid, 250 vehicles)                             |                       |             |           | X   | 2005                     |                        | 0.0483            | 2.0171        | 0.0492            | 0.5155        |                   |               |                   |               | SP                 |

### TERM TRACKING SHEET TRANSPORTATION EMISSION REDUCTION MEASURES Part B - Yearly PM<sub>2.5</sub> and Precursor NOx Emissions

\* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type, TCM - Transportation Control Measures

| NOs                                | CREDIT TAKEN | TIP CREDITED | AGENCY | PROJECT                                                             | IMPLEMENTATION STATUS |             |           |     | ORIGINAL COMPLETION DATE | ACTUAL COMPLETION DATE | 2011              |                | 2020              |                | 2030              |                | 2040              |                | Project Category * |
|------------------------------------|--------------|--------------|--------|---------------------------------------------------------------------|-----------------------|-------------|-----------|-----|--------------------------|------------------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|--------------------|
|                                    |              |              |        |                                                                     | FULL                  | SCALED-BACK | UNDER-WAY | REM |                          |                        | PM <sub>2.5</sub> | Precursor NOx  | PM <sub>2.5</sub> | Precursor NOx  | PM <sub>2.5</sub> | Precursor NOx  | PM <sub>2.5</sub> | Precursor NOx  |                    |
|                                    |              |              |        |                                                                     |                       |             |           |     |                          |                        |                   |                |                   |                |                   |                |                   |                |                    |
| 203                                | X            | 2003-08      | MDOT   | Replace 55 Montgomery County 10 yr. old buses w/ new CNG buses      |                       |             | X         |     | 2005                     | Ongoing                | 0.5910            | 24.6908        | 0.6024            | 6.3103         |                   |                |                   |                | SP                 |
| 204                                |              | 2003-08      | MDOT   | Neighborhood Bus Shuttle (5 circulator routes)                      |                       |             |           | X   | 2005                     |                        | 0.0808            | 3.3573         | 0.0824            | 0.8580         | 0.0824            | 0.7126         | 0.0792            | 0.5747         | C                  |
| 205                                | X            | 2003-08      | MDOT   | New Surface Parking at Transit Centers (500 spaces)                 |                       |             | X         |     | 2005                     | 2005                   | 0.0428            | 1.6235         | 0.0436            | 0.4143         | 0.0436            | 0.3488         | 0.0419            | 0.2813         | C                  |
| 206                                |              | 2003-08      | MDOT   | Additional Bike Lockers at Metro-Stations                           |                       |             |           | X   | 2005                     |                        | 0.1368            | 5.7456         | 0.1395            | 1.4685         | 0.1395            | 1.2179         | 0.1341            | 0.9823         | C                  |
| 207                                | X            | 2003-08      | MDOT   | Bike Facilities at PnR Lots or other similar location               |                       |             | X         |     | 2005                     | 2005                   | 0.1122            | 4.5381         | 0.1144            | 1.1592         | 0.1144            | 0.9667         | 0.1100            | 0.7797         | C                  |
| 208                                |              | 2003-08      | MDOT   | CNG Fueling Stations                                                |                       |             |           | X   | 2005                     |                        |                   |                |                   |                |                   |                |                   |                | SP                 |
| 209                                |              | 2003-08      | MDOT   | Gas cap replacements (ROP Credit)                                   |                       |             |           | X   | 2005                     |                        | N/A               | N/A            | N/A               | N/A            | N/A               | N/A            |                   |                | SP                 |
| 210                                |              | 2003-08      | MDOT   | Gas can turnover (ROP Credit)                                       |                       |             |           | X   | 2005                     |                        | N/A               | N/A            | N/A               | N/A            | N/A               | N/A            |                   |                | SP                 |
| 211                                | X            | 2003-08      | MDOT   | External Bicycle Racks on WMATA Buses (486 MD buses)                | X                     |             |           |     | 2005                     | 2002                   | 0.0145            | 0.6087         | 0.0148            | 0.1556         | 0.0148            | 0.1290         | 0.0142            | 0.1041         | C (TCM)            |
| 212                                | X            | 2003-08      | MDOT   | Bike \ Pedestrian Trail - Anacostia River Walk                      |                       |             | X         |     | 2005                     | Ongoing                | 0.0021            | 0.1320         | 0.0022            | 0.0339         | 0.0022            | 0.0268         | 0.0021            | 0.0216         | C                  |
| 213                                |              | 2003-08      | MDOT   | Transit Prioritization - Queue Jumps                                |                       |             |           | X   | 2005                     |                        | 0.0221            | 1.0366         | 0.0225            | 0.2654         | 0.0225            | 0.2168         | 0.0217            | 0.1748         | C                  |
| 214                                | X            | 2003-08      | MDOT   | Commuter Choice Benefit/Tax Credit - Marketing Expansion            | X                     |             |           |     | 2005                     | Ongoing                | 0.5623            | 23.6531        | 0.5732            | 6.0457         | 0.5732            | 5.0126         | 0.5512            | 4.0428         | C                  |
| 215                                | X            | 2003-08      | MDOT   | Improvements to Pedestrian Access in TOD areas (4 locations)        |                       |             | X         |     | 2005                     | Ongoing                | 0.0556            | 2.4022         | 0.0567            | 0.6142         | 0.0567            | 0.5074         | 0.0545            | 0.4092         | C                  |
| 216                                | X            | 2003-08      | MDOT   | Telecommuting Expansion <sup>1</sup>                                | X                     |             |           |     | 2005                     | Ongoing                | 0.8305            | 33.0827        | 0.8466            | 8.4488         | 0.8466            | 7.0611         | 0.8141            | 5.6950         | C                  |
| 217                                |              | 2003-08      | MDOT   | Replace older Diesel Engine in Public Sector vehicles               |                       |             |           | X   | 2005                     |                        |                   |                |                   |                |                   |                |                   |                | H                  |
| 218                                | X            | 2003-08      | VDOT   | MV-92 Telecommuting Program - Expanded <sup>1</sup>                 | X                     |             |           |     | 2005                     | 2005                   | 0.8869            | 35.3306        | 0.9041            | 9.0228         | 0.9041            | 7.5408         | 0.8694            | 6.0819         | C                  |
| 219                                | X            | 2003-08      | VDOT   | MV-123 Employer Outreach for Public Sector Employees <sup>2</sup>   | X                     |             |           |     | 2005                     | 2003                   | 0.1544            | 6.5292         | 0.1574            | 1.6690         | 0.1574            | 1.3828         | 0.1514            | 1.1152         | C                  |
| 220                                | X            | 2003-08      | REGION | Signal System Optimization                                          | X                     |             |           |     | 2005                     | 2005                   | 0.9874            | 41.2489        | 1.0065            | 10.5421        | 1.0065            | 8.7492         | 0.9678            | 7.0565         | TR                 |
| 221                                | X            | 2007-12      | MDOT   | Two P & R Lots in Frederick County (99 spaces)                      | X                     |             |           |     | 2007                     | 2008                   | 0.0119            | 0.4660         | 0.0086            | 0.0831         | 0.0086            | 0.0709         | 0.0083            | 0.0572         | C                  |
| 222                                | X            | 2007-12      | MDOT   | MDOT P & R Lots at US 340 ( 66-99 spaces, Frederick Co.)            | X                     |             |           |     | 2007                     | 2007                   |                   |                |                   |                |                   |                |                   |                |                    |
| 223                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at US 340 & Mt Zion Rd. (37 spaces)             | X                     |             |           |     | 2008                     | 2008                   | 0.0091            | 0.3577         | 0.0093            | 0.0913         | 0.0093            | 0.0765         | 0.0090            | 0.0617         |                    |
| 224                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at US 340 & Mt Zion Rd. - expansion (39 spaces) |                       |             | X         |     | 2011                     | 2011                   |                   |                |                   |                |                   |                |                   |                |                    |
| 225                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at I 70 & MD 355 (100 spaces)                   |                       |             | X         |     | 2010                     | 2010                   | 0.0120            | 0.4707         | 0.0123            | 0.1202         | 0.0123            | 0.1007         | 0.0118            | 0.0812         |                    |
| 226                                | X            | 2008-13      | MDOT   | MCG/MDOT P & R Lots at I 270 & MD 80 (164 spaces)                   | X                     |             |           |     | 2009                     | 2009                   | 0.0197            | 0.7720         | 0.0201            | 0.1971         | 0.0201            | 0.1652         | 0.0193            | 0.1332         |                    |
| 227                                | X            | 2008-13      | MDOT   | MDOT Syglal System Reviewing                                        |                       |             | X         |     | 2010                     | on-going               |                   |                |                   |                |                   |                |                   |                |                    |
| 228                                | X            | 2008-13      | MDOT   | MDOT Takoma Langely Transit Center                                  |                       |             | X         |     | 2012                     | 2012                   | 0.0000            | 0.0000         | 0.0000            | 0.0000         | 0.0000            | 0.0000         | 0.0000            | 0.0000         |                    |
| <b>Available Emissions Credits</b> |              |              |        |                                                                     |                       |             |           |     |                          |                        | <b>17.320</b>     | <b>807.642</b> | <b>15.744</b>     | <b>187.199</b> | <b>15.141</b>     | <b>150.310</b> | <b>14.560</b>     | <b>121.230</b> |                    |

**TRANSPORTATION EMISSION REDUCTION MEASURES (CLRP Projects Only)**  
**Part B - Yearly PM<sub>2.5</sub> and Precursor NOx Emissions**

Project Category: TR - Traffic Stream, C - Commute, H - Engine Technology (Heavy Dudy Vehicles), SP- Specific Vehicle Type

| NOs                                               | CREDIT TAKEN | TIP CREDITED     | AGENCY | PROJECT                                       | IMPLEMENTATION STATUS |             |           |     | PROJECTED COMPLETION DATE | ACTUAL COMPLETION DATE | TONS/ANNUM REDUCTION CREDITED |               |                   |               |                   |               |                   |               | Project Category |
|---------------------------------------------------|--------------|------------------|--------|-----------------------------------------------|-----------------------|-------------|-----------|-----|---------------------------|------------------------|-------------------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|------------------|
|                                                   |              |                  |        |                                               | FULL                  | SCALED-BACK | UNDER-WAY | REM |                           |                        | 2011                          |               | 2020              |               | 2030              |               | 2040              |               |                  |
|                                                   |              |                  |        |                                               |                       |             |           |     |                           |                        | PM <sub>2.5</sub>             | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx | PM <sub>2.5</sub> | Precursor NOx |                  |
| 221                                               | X            | 1995-00 TIP      | REGION | M-24 Speed Limit Adherence                    |                       |             |           |     | 2010                      |                        | 1.8120                        | 75.7023       | 2.1072            | 22.0719       | 0.7941            | 6.9030        | 0.7636            | 5.5675        | TR               |
| 222                                               |              | 1996-01 TIP      | MGC    | Rock Spring Park Pedestrian Amenities         |                       |             |           | X   |                           |                        | 0.0265                        | 1.1069        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | -                |
| 223                                               | X            | 1996-01 TIP      | MGC    | Olney Transit Center Park and Ride            |                       |             |           |     | 2015                      |                        | 0.0530                        | 2.2138        | 0.0531            | 0.5559        | 0.0147            | 0.1279        | 0.0142            | 0.1032        | C                |
| 224                                               | X            | 1996-01 TIP      | MGC    | Damascus Park and Ride                        |                       |             |           |     |                           | 2003                   | 0.0265                        | 1.1069        | 0.0265            | 0.2780        | 0.0074            | 0.0640        | 0.0071            | 0.0516        | C                |
| 225                                               | X            | 1996-01 TIP      | DC     | M-103 Taxicab Replacement (DC)                |                       |             |           | X   | 2015                      |                        | 0.0000                        | 0.0000        | 5.2412            | 54.8984       | 12.6415           | 109.8936      | 12.1565           | 88.6330       | H                |
| 226                                               | X            | STADIUM ANALYSIS |        | M-103 Taxicab Replacement (MD)                |                       |             |           | X   | 2008                      |                        | 0.0000                        | 0.0000        | 4.1929            | 43.9187       | 5.0566            | 43.9574       | 4.8626            | 35.4532       | H                |
| 227                                               | X            | 1997-02 TIP      | MDOT   | Shady Grove West Transit Center Park and Ride |                       |             |           | X   |                           |                        | 0.0662                        | 2.7673        | 0.0663            | 0.6949        | 0.0184            | 0.1599        | 0.0177            | 0.1290        | C                |
| 228                                               | X            | 1997-02 TIP      | MGC    | Olney Transit Center Park and Ride            |                       |             |           |     | 2015                      |                        | 0.0000                        | 0.0000        | 0.0218            | 0.2280        | 0.0147            | 0.1279        | 0.0142            | 0.1032        | C                |
| 229                                               | X            | 1997-02 TIP      | MGC    | White Oak Park and Ride                       |                       |             |           |     | 2008                      |                        | 0.1325                        | 5.5345        | 0.1327            | 1.3898        | 0.0368            | 0.3199        | 0.0354            | 0.2580        | C                |
| 230                                               | X            | 1997-02 TIP      | MGC    | Damascus Park and Ride                        |                       |             |           |     |                           | 2003                   | 0.0000                        | 0.0000        | 0.0082            | 0.0855        | 0.0055            | 0.0480        | 0.0053            | 0.0387        | C                |
| 231                                               | X            | 1997-02 TIP      | MGC    | Four Corners Transit Center                   |                       |             |           |     | 2015                      |                        | 0.0066                        | 0.2767        | 0.0066            | 0.0695        | 0.0018            | 0.0160        | 0.0018            | 0.0129        | C                |
| 232                                               |              | 1997-02 TIP      | MGC    | Burtonsville Transit Center                   |                       |             |           | X   |                           |                        | 0.0000                        | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | 0.0000            | 0.0000        | -                |
| 233                                               | X            | 1997-02 TIP      | MGC    | Silver Spring Transit Access                  |                       |             |           |     |                           |                        | 0.0066                        | 0.2767        | 0.0054            | 0.0570        | 0.0037            | 0.0320        | 0.0035            | 0.0258        | C                |
| 234                                               | X            | 1997-02 TIP      | MGC    | Shady Grove Parking Construction              |                       |             |           |     |                           | 2003                   | 0.1259                        | 5.2578        | 0.1261            | 1.3204        | 0.0350            | 0.3039        | 0.0336            | 0.2451        | C                |
| <b>PLAN TOTAL</b>                                 |              |                  |        |                                               |                       |             |           |     |                           |                        | 0.3511                        | 90.3688       | 5.6215            | 80.9544       | 12.7611           | 117.8361      | 12.2715           | 95.0389       |                  |
| <b>GRAND TOTAL (Current Measures + CLRP plan)</b> |              |                  |        |                                               |                       |             |           |     |                           |                        | 17.671                        | 898.011       | 21.365            | 268.153       | 27.902            | 268.146       | 26.832            | 216.269       |                  |

DEFINITIONS: Project Numbers implemented fully prior to 2000 were removed from the TERM Tracking Sheet

CREDIT TAKEN ( X means emissions reduction credits taken):

- TIP - Emissions credits are taken for projects being implemented, according to the progress reporting schedules provided by the implementing agencies (contained in Appendix J of Conformity Document ). No credit has been taken for projects in which only some components of the measure have been implemented.
- CLRP - Credit is taken for each of these elements of the CLRP according to the schedule provided by the implementing agency.

IMPLEMENTATION STATUS:

- FULL = project is completed as planned at the time of analysis.
- SCALED BACK = project is completed, but at a different level than assumed at the time of analysis (i.e., purchased 50 buses instead of 100)
- UNDERWAY = project is not complete, but is close enough that credit may be taken (i.e., under construction, NOT just out for bid)
- REMOVED = project no longer expected to be implemented or constructed

COMPLETION DATE:

- PROJECTED = project completion date originally expected (i.e., at time of emissions analysis)
- ACTUAL = actual year project was open for use, or expected to be open for use if under construction

REMOVED

projects Emissions credits are not counted in total available emissions credits

- 1 Line items 218, 216, 179, 92 are all credited as part of M-92 Regional Telecommute Support TERM, line item # 75
- 2 Line item 108 & 219 credits are taken only for year 2010