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 Vi rginia and the Mayor of the District of Columbia as the Metropolitan Planning Or ganization (MPO) for the Washington Metropolitan Area; and

WHEREAS, the U.S. EnvironmentalProtection Agency (EPA), inconjunction with the U.S. Department of Transportation (DOT), under the Clean Air Act Amendments of 1990 (CAAA), issued on November 24, 1993 "Cri teria 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 cr iteria 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 implement ation 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 majoprojects 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 CL RP 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 "Netro Matters" commitments for Metro's near-term funding, the transit ridership constraint to or though 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 legislationwas enacted to authorize \$150 million per year for 10 years in funding for WMATA's c apital and preventive maintenance projects, and, the legislatures of Mary land, 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 releasedfor 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 (PM2.5), and demonstrates that PM2.5 emissions meet the requirement that such emissions are not greater than 2002 levels, meets all regulatory, planning and in teragency 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.

Adopted by the Transportation Planning Board at its regular meeting on November 17, 2010.

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 $PM_{2.5}$ 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 $PM_{2.5}$ 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_{2.5}, 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_{2.5} 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 PM2.5 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,

Hon. Leta Mach, Chair

Lita M. Mach

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 (PM2.5) 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, <u>Air Quality Conformity Determination Of The 2010 Constrained Long Range Plan And The FY2011-2016 Transportation Improvement Program For The Washington Metropolitan Region</u>, 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 NOx) and CO, and a demonstration that forecast year PM_{2.5} (including both directly emitted PM_{2.5} and precursor NOx) 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, <u>Plan to Improve Air Quality in the Washington, DC-MD-VA Region,</u> 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_{2.5} Attainment Plan. Adherence to both the 8-hour ozone and PM_{2.5} 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 (NOx), PM_{2.5}, 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 NOx) and wintertime CO are inventoried for average weekday conditions, precursor NOx and direct PM_{2.5} 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_{2.5} 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*_{2.5} – *Yearly Emissions*

To develop the yearly total $PM_{2.5}$ 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 $PM_{2.5}$ 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_{2.5} 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 $PM_{2.5}$ 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 $PM_{2.5}$. 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 offnetwork 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_{2.5} pollutants. The summary result of these measures, shown as the bottom line for each section of the table, amounts to additional reductions in 2011of 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_{2.5} 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_{2.5} 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

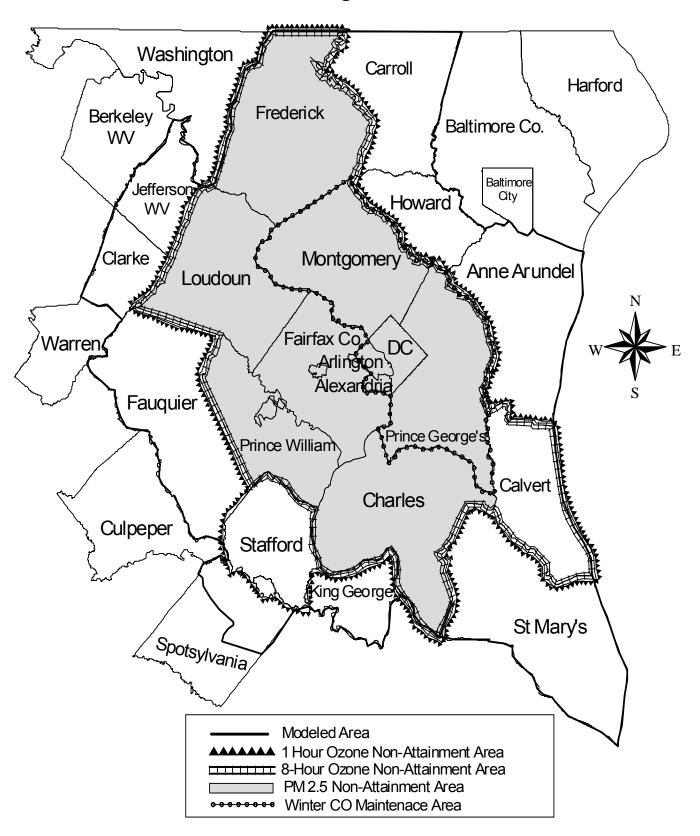


Exhibit 2

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>
Transit Trips	1,055.7	1,096.7	1,378.2	1,517.0	1,632.4
Vehicle Trips	19,535.7	22,236.8	24,560.9	26,887.4	28,777.3
VMT	145,504.9	160,327.0	177,817.0	190,672.5	199,813.8

7

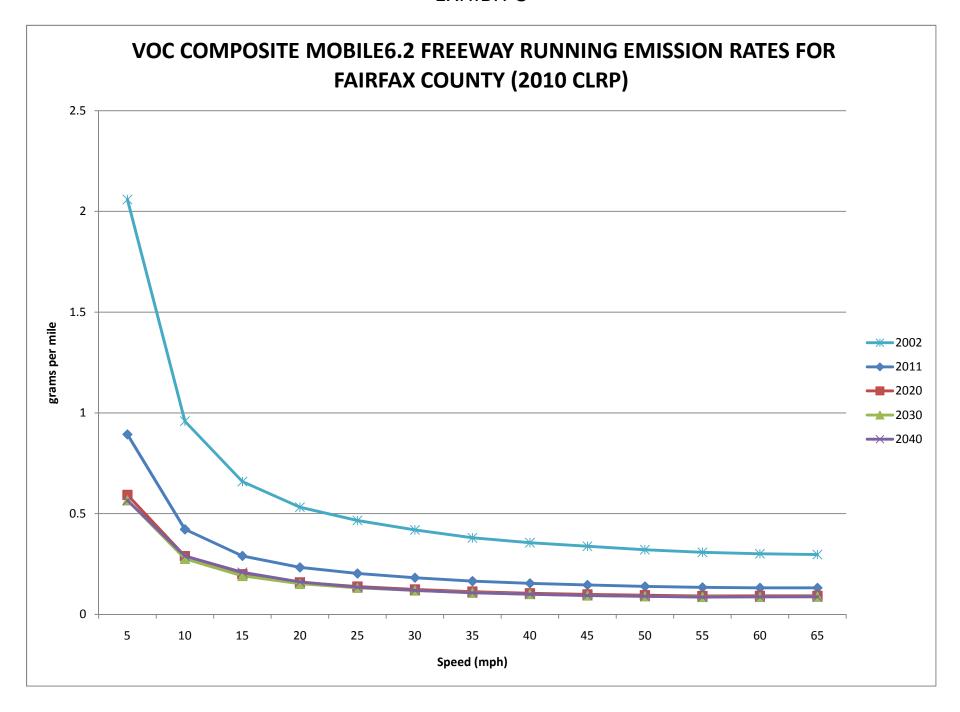
Adjustment Factors to Convert AWDT to Appropriate Season:

Ozone Season AWDT: 1.05

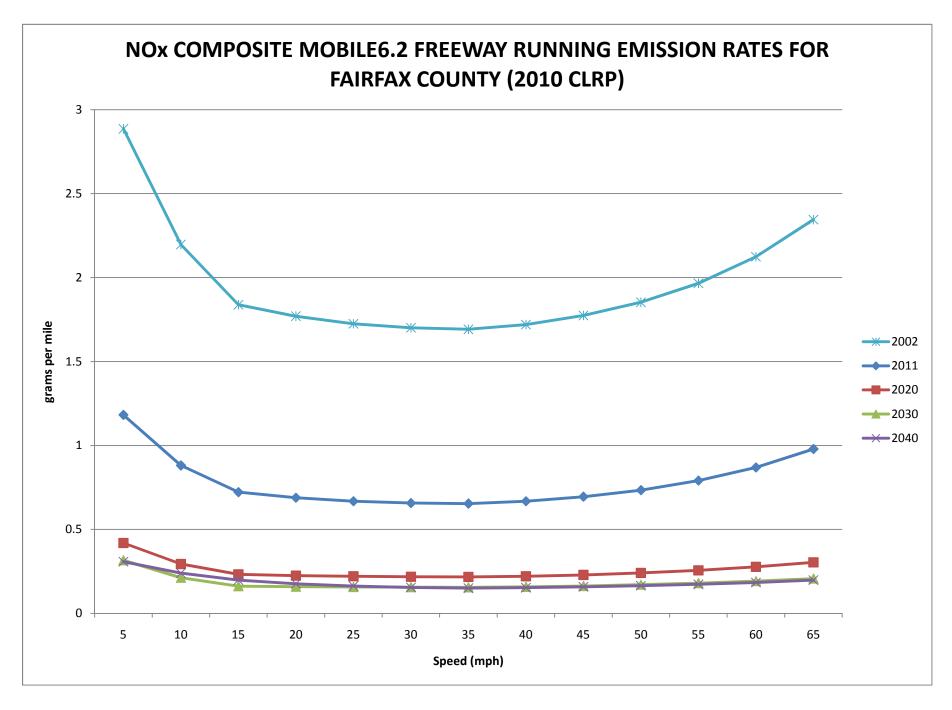
Winter Season AWDT: 0.97

PM2.5 Annual:

1 111210 / 1111100011	
Season (ADT)	Factor
Season 1 (Jan- Apr)	0.9216
Season 2 (May- Sept)	0.9873
Season 3 (Oct- Dec)	0.9282



c11exh3& 4s 8



c11exh3& 4s 9

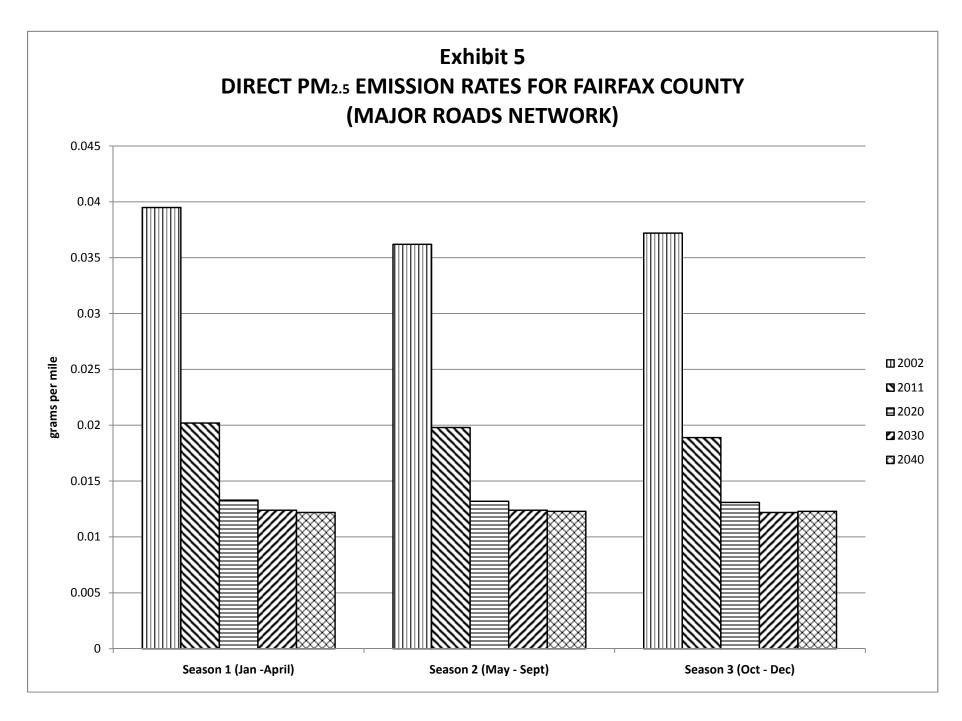


EXHIBIT 6 Mobile Source VOC Emissions for the 1-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP

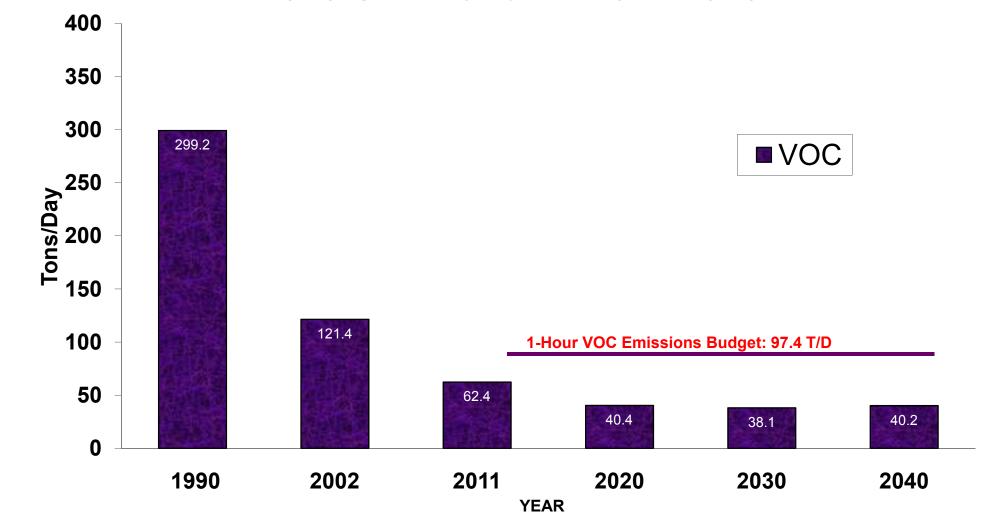


EXHIBIT 7 Mobile Source VOC Emissions for the 8-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP

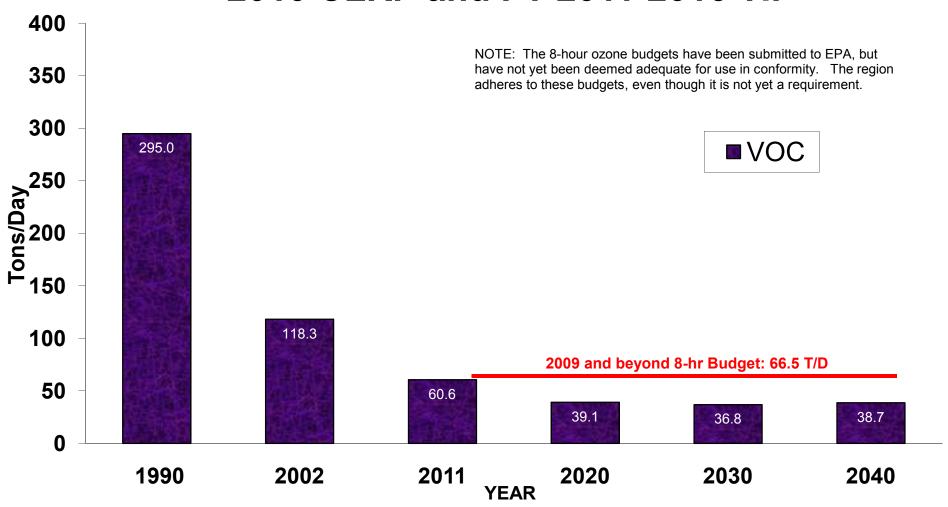


EXHIBIT 8 Mobile Source NOx Emissions for the 1-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP

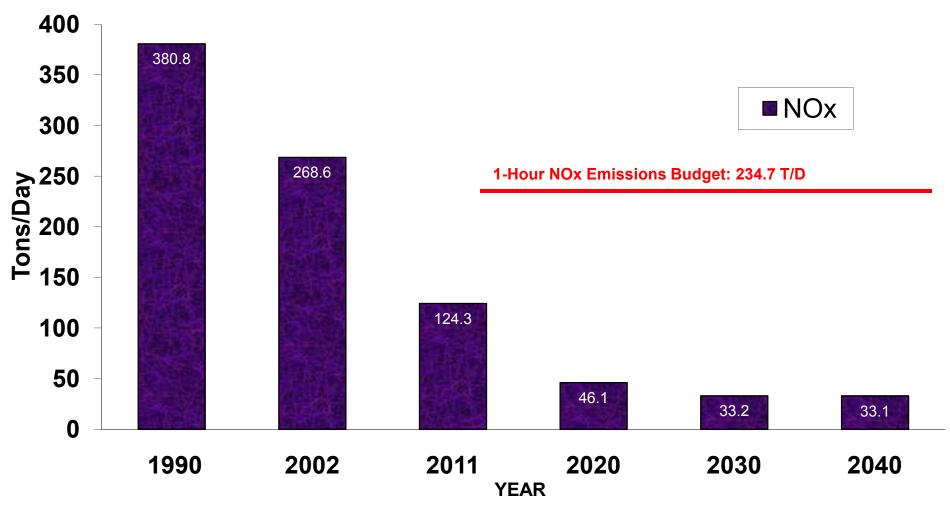


EXHIBIT 9 Mobile Source NOx Emissions for the 8-Hour Ozone Nonattainment Area 2010 CLRP and FY 2011-2016 TIP

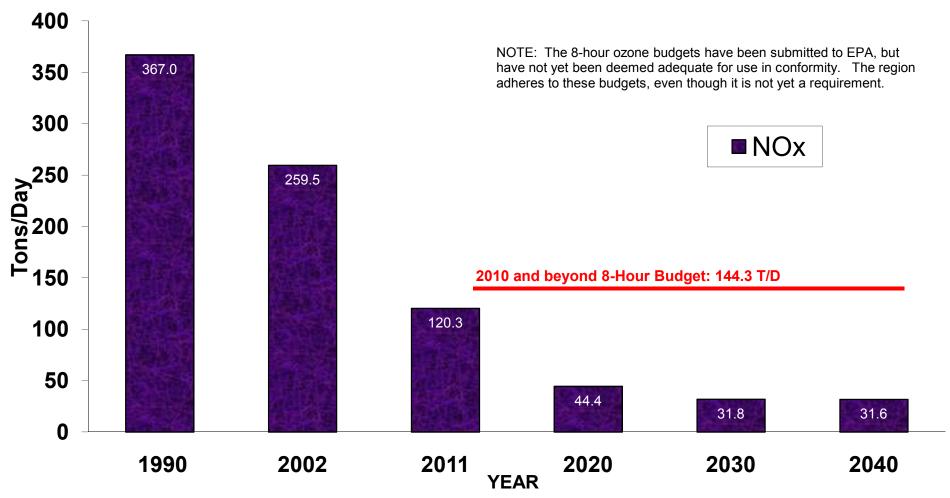


EXHIBIT 10 Mobile Source Emissions 2010 CLRP and FY 2011-2016 TIP Direct PM_{2.5}

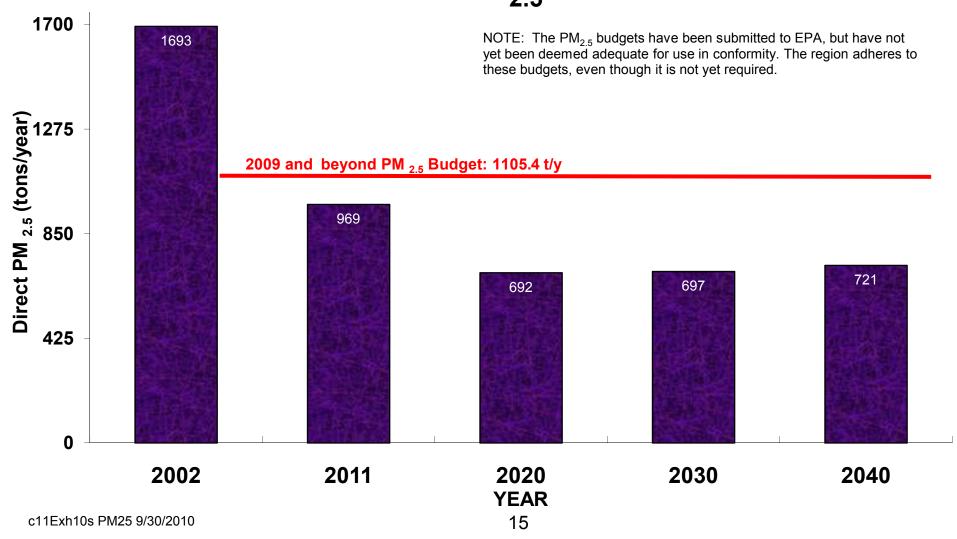
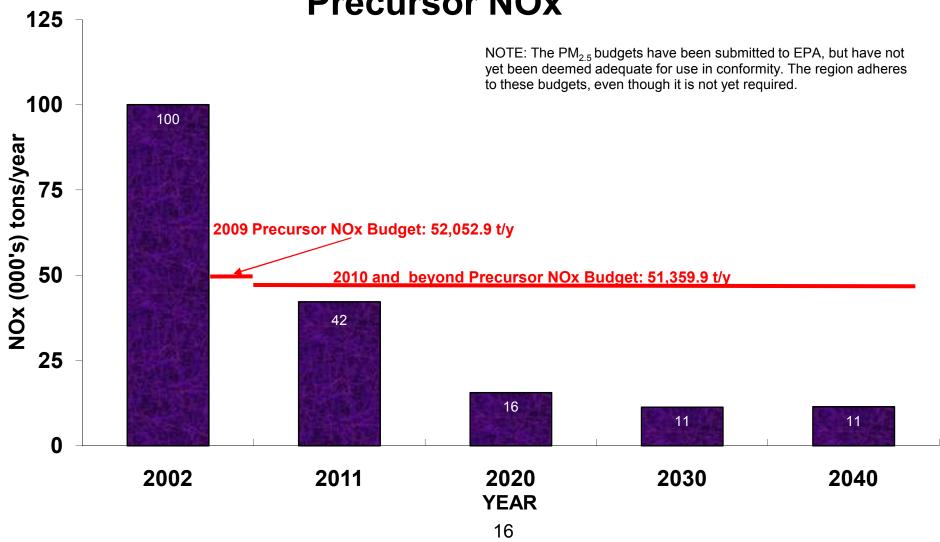


EXHIBIT 11 Mobile Source Emissions 2010 CLRP and FY 2011-2016 TIP Precursor NOx



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 offpeak 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 45th 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) 9th Street NW from Constitution Avenue NW to K Street NW (0.7 mile)
- b) 15th Street NW from Constitution Avenue NW to W Street NW (2 miles)
- c) L Street from 11th Street NW to 25th Street NW (1.3 miles)
- d) M Street from 15th Street NW to 29th Street NW (1 mile)
- e) Pennsylvania Avenue NW from 3rd Street NW to 14th 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.

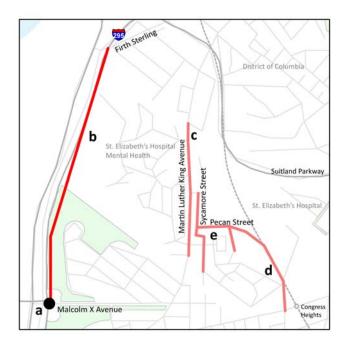
3. St. Elizabeth's Access Improvements

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 5th lane
- d) Construct a 2-lane extension of 13th 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 34th 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



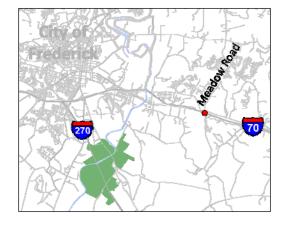
MARYLAND

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

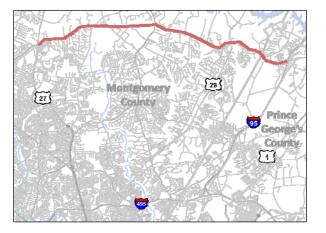
7. MD 28, Norbeck Road/MD 198, Spencerville Road from MD 97 to I-95

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

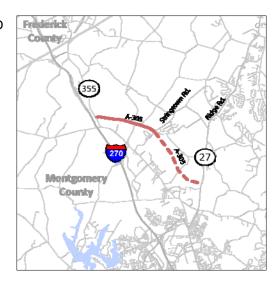
Source: Federal and State



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	Old Date	New Date
 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)

5	Old	New
Projects delayed 10 years or more	Date	Date
 US 1, bus right turn lanes from VA 235 N to I-95 VA 7/US 15 Bypass, widen to 6 lanes from VA 7 W to 	2025 2025	2035 2035
US 15 S		
 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
Projects removed from the Plan		
 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

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

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
D.C.	746265	793350	868257	923988	977162	1.31
MONTGOMERY	484992	513109	585409	673515	723707	1.49
PR.GEORGES	341706	360418	383232	419127	473940	1.39
ARLINGTON	187501	207971	243988	268795	281308	1.50
ALEXANDRIA	95891	110651	124115	142257	160447	1.67
FAIRFAX	624194	689123	788508	863803	917484	1.47
LOUDOUN	106435	148499	206460	257196	285415	2.68
PR. WILLIAM	127881	148961	188769	232597	280697	2.19
FREDERICK	106647	144200	158254	167233	175084	1.64
CHARLES	48569	63485	71743	77549	83152	1.71
STAFFORD	33200	43859	55167	65741	74956	2.26
CALVERT	26639	36332	44441	47142	48936	1.84
SUBTOTAL	2,929,920	3,259,958	3,718,343	4,138,943	4,482,288	1.53
ADDITIONAL COUNTIES.						
ADDITIONAL COUNTIES: HOWARD	140774	168941	195196	219748	227002	1.61
ANNE ARUNDEL	260717	293170	328008	357305	369880	
CARROLL	57372	68004	70825	72455	74080	1.42 1.29
FREDERICKSBURG (VA)	24171	29491	35483	41786	47207	1.29
JEFFERSON	17008	21564	26112	30674	35782	2.10
N. SPOTSYLVANIA	29614	36806	46698	55689	63484	2.10
FAUQUIER	22320	27961	35765	43365	52576	2.14
CLARKE	6079	6882	7685	8550	9517	1.57
K. GEORGE	9334	9506	13150	16390	19339	2.07
ST. MARY'S	49629	60165	67273	71964	75849	1.53
SUBTOTAL	617,018	722,490	826,195	917,926	974,716	
	,	,			•	
TOTAL	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%
Oity of McAunaria	0.070	5.170	0.570	1.070	3.770	3.770	3.170	2.070
Central Jurisdictions	0.0%	-3.1%	-2.8%	-4.3%	-3.7%	-3.8%	-4.0%	-3.8%
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%
Inner Suburbs	-0.4%	-1.4%	-2.4%	-2.2%	-2.0%	-1.6%	-1.2%	-1.4%
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%
Outer Suburbs	1.0%	-0.5%	-0.6%	-1.2%	-1.1%	-0.8%	-0.8%	-0.9%
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%
Modeled Region - Baltimore Area Jurisdictions	0.0%	-0.8%	-0.6%	-0.5%	-0.4%	-0.3%	-0.1%	-0.1%
Battimore Area Jurisaictions								
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%
Modeled Portion Only	13.2%	5.0%	0.0%	0.1%	0.0%	0.1%	0.0%	-0.5%
City of Fredericksburg (5)	5.4%	2.3%	0.0%	0.1%	0.0%	0.1%	0.0%	-0.2%
Modeled Region -	1.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
Fredericksburg Area Jurisdictions								
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%
Modeled Region - Other Jurisdictions	-0.1%	-0.1%	-0.1%	-0.1%	-0.2%	-0.2%	-0.2%	-0.2%
Northern Virginia	-0.6%	0.9%	1.5%	1.5%	1.0%	0.7%	0.4%	0.7%
Suburban Maryland	-0.7%	-1.6%	-2.3%	-2.5%	-2.5%	-2.0%	-1.7%	-1.5%
MSA (1983) REGIONAL TOTAL	-0.7%	-1.6%	-2.3%	-2.5%	-2.5%	-2.0%	-1.7%	-1.5%
TPB Model Region Total	0.2%	-1.3%	-1.7%	-2.0%	-1.7%	-1.5%	-1.4%	-1.4%

⁽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 forecas 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%
Central Jurisdictions	0.0%	-1.1%	-1.4%	-1.6%	-1.0%	-1.2%	0.9%	1.0%
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%
Inner Suburbs	0.1%	-1.9%	-2.8%	-1.8%	-2.0%	-2.1%	-2.5%	-2.7%
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%
Outer Suburbs	-1.2%	-4.0%	-4.5%	-4.0%	-3.7%	-3.3%	-2.7%	-2.5%
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%
Modeled Region - Baltimore Area Jurisdictions	0.0%	-0.5%	-1.4%	-2.4%	-2.8%	-3.2%	-3.3%	-3.3%
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%
Modeled Portion Only	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%
Modeled Region -	-1.1%	-0.4%	0.0%	0.1%	0.0%	0.2%	0.1%	-0.3%
Fredericksburg Area Jurisdictions								
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%
Modeled Region - Other Jurisdictions	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Northern Virginia	-0.4%	-3.9%	-5.7%	-4.1%	-3.2%	-2.8%	-1.9%	-1.8%
Suburban Maryland	0.0%	-0.8%	-1.4%	-1.6%	-2.1%	-2.5%	-3.0%	-3.2%
MSA (1983) REGIONAL TOTAL	-0.1%	-2.0%	-2.7%	-2.2%	-2.0%	-2.1%	-1.5%	-1.5%
TPB Model Region Total	-0.1%	-1.7%	-2.4%	-2.1%	-2.1%	-2.1%	-1.7%	-1.7%

⁽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 Comple:
(4) Forecasts for all years do not include Fairfax County Government employees (+/- 2,000 jobs) working in the Massey Comple:
(5)Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecast 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

* Projec	ct Catego	ry: TR - Traff	ic Stream, C	C - Commute, H - Heavy Duty Vehicles (Engine Technology), SF															
					IM	PLEMENTA	TION STA	TUS	ORIGINAL AC	TUAL									
NOs	CREDIT	TIP				SCALED-	UNDER-		COMPLETION)11)20		30		140	Project
	TAKEN	CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	VOC	NOX	VOC	NOX	VOC	NOX	VOC	NOX	Category *
9	Х	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	С
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	Х	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	С
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	Х	1995-00	MDOT	Signal Systems - MD 355 ,I-70 ramps to Grove Rd.	Х				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.	х				1996	2002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	TR
48	Х	1995-00	MDOT	MARC Replacement Coaches	Х				1999	2004	0.0006	0.0013	0.0003	0.0005	0.0003	0.0005	0.0003	0.0003	C (TCM)
49	Х	1995-00	MDOT	MARC Expansion Coaches	Х				1999	2004	0.0051	0.0122	0.0029	0.0051	0.0026	0.0042	0.0024	0.0029	C (TCM)
51	Х	1995-00	VDOT	Alexandria Telecommuting Pilot Program	Х					2000 & 2001	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	С
52	х	1995-00	VDOT	Fairfax County Bus Shelter (Fairfax Co. TDM program)			х		2000	2001	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	С
54	Х	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	Х	1995-00	VDOT	Cherry Hill VRE Access			Х			Jul-08	0.0040	0.0104	0.0023	0.0044	0.0020	0.0036	0.0018	0.0025	C (TCM)
58	Х	1995-00	WMATA	Bus Replacement (172 buses)	Х				1998	1998	0.0661	0.2326					0.0000	0.0000	SP (TCM)
59	Х	1995-00	MCG	Shady Grove West Park and Ride			Х		2010		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	С
60	х	1995-00	MCG	White Oak Park and Ride			х		2010		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	С
61	Х	1995-00	MCG	Bicycle Facilities			Х		FY99		0.0017	0.0009	0.0010	0.0004	0.0009	0.0003	0.0008	0.0002	С
62	Х	1995-00	MCG	Pedestrian Facilities to Metrorail			Х				0.0028	0.0035	0.0016	0.0015	0.0015	0.0012	0.0013	0.0008	С
63	Х	1995-00	MDOT	MARC Replacement Coaches	Х				1999	2004	0.0023	0.0052	0.0013	0.0022	0.0012	0.0018	0.0011	0.0012	С
64	Х	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	Х	1995-00	VDOT	Commuter Lots - District Wide	Х				varies	1995, 2001	0.0062	0.0144	0.0036	0.0060	0.0032	0.0050	0.0029	0.0034	С
67	Х	1995-00	VDOT	I-66 and Stringfellow Rd. Park and Ride	Х				2000	2000 end	0.0056	0.0087	0.0033	0.0036	0.0029	0.0030	0.0026	0.0020	С
68	Х	1995-00	VDOT	Lake Ridge Park and Ride (now called Tacketts Mill lot)	Х					1999/2000	0.0000	0.0044	0.0000	0.0018	0.0000	0.0015	0.0000	0.0010	С
69	Х	1995-00	VDOT	Bicycle Trails and Facilities (Arlington & Fairfax Co - 7 locations)			х		varies	2010-12	0.0011	0.0074	0.0007	0.0031	0.0006	0.0026	0.0005	0.0017	С
70	х	1995-00	VDOT	Improved Acceess to Metrorail Stations (VRE 2 Stn)			х		varies	2000-2012	0.0003	0.0004	0.0002	0.0002	0.0001	0.0002	0.0001	0.0001	С
71	Х	1995-00	VDOT	I-66 HOV access at Monument Dr.	Х					1997	0.0028	0.0044	0.0033	0.0036	0.0029	0.0030	0.0026	0.0020	С
72	X	1995-00	DC	Bicycle Facilities	х						0.0136	0.0087	0.0078	0.0036	0.0070	0.0030	0.0063	0.0020	С
73	Х	1995-00	REGION	COG Regional Ridesharing Support	х					on-going	0.1323	0.2340	0.0778	0.0980	0.0710	0.0818	0.0638	0.0555	С
74	Х	1995-00	REGION	M-47 Integrated Ridesharing	х					on-going	0.0477	0.0816	0.0279	0.0342	0.0254	0.0285	0.0228	0.0193	С
75	Х	1995-00	REGION	M-92 Telecommuting Support	х					on-going	0.1099	0.1734	0.0639	0.0726	0.0576	0.0603	0.0518	0.0409	С
77		1996-01	VDOT	Duke Street Pedestrian Bridge	x				2005	2007	n/a	n/a	n/a	n/a	n/a	n/a			
79	Х	1996-01	VDOT	Fairfax County Bus Shelters (30 shelters with project #85)			х		1999	ummer 200	0.0011	0.0013	0.0007	0.0005	0.0006	0.0005	0.0005	0.0003	С
81	Х	1996-01	VDOT	Arlington County Metrocheck Program	х				1997	1997 Onwards	0.0011	0.0013	0.0007	0.0005	0.0006	0.0005	0.0005	0.0003	С
82	х	1996-01	VDOT	Old Dominion Drive Bike Trail			х		2000	2010-11	0.0006	0.0004	0.0003	0.0002	0.0003	0.0002	0.0003	0.0001	С
83	Х	1996-01	WMATA	Bus Replacement (see line 58, above)	х					1998		Credi	t taken in lir	ne 58, abov	re e				SP
85	х	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	С

NOs CRED TAKE 90 X 91 X 92 X 95 X 102 X		AGENCY REGION REGION	PROJECT M-47c Employer Outreach / Guaranteed Ride Home	FULL	SCALED-	TION STATURE UNDER-	rus	ORIGINAL AC			111	000		20	130	-		
90 X 91 X 92 X 95 X 102 X	N CREDITED 1996-01 1996-01	REGION		FULL		UNDER-		COMPLETION			111	000		20	20	0.0		l .
90 X 91 X 92 X 95 X 102 X	1996-01 1996-01	REGION		FULL					COMPLETION	20		202					040	Project
91 X 92 X 95 X 102 X	1996-01		M-47c Employer Outreach / Guaranteed Ride Home		BACK	WAY	REM	DATE	DATE	VOC	NOX	VOC	NOX	VOC	NOX	VOC	NOX	Category *
92 X 95 X 102 X		REGION		Х					on-going	0.3256	0.5041	0.1887	0.2111	0.1698	0.1753	0.1527	0.1189	С
95 X 102 X	1997-02		M-70a Bicycle Parking			Х		1999		0.0040	0.0030	0.0023	0.0013	0.0020	0.0011	0.0018	0.0007	С
102 X	1997-02		M-92 Telecommuting Support ¹	Combined	d with item #	75				0.0000	0.0000							С
		MCG	Germantown Transit Center	Х				2005		0.0028	0.0083	0.0016	0.0035	0.0015	0.0029	0.0013	0.0019	C (TCM)
106 X	1997-02	PG	Prince George's County Bus Replacement	Х				1998	1998	0.0029	0.0083							SP (TCM)
	1997-02	VDOT	PRTC Employer Commuting Outreach Program	Х					1977 on-going	0.0011	0.0002	0.0007	0.0001	0.0006	0.0001	0.0005	0.0001	С
107 X	1997-02	VDOT	PRTC Multimodal Strategic Marketing Implementation Plan	Х					1977 on-going	0.0000	0.0002	0.0000	0.0001	0.0000	0.0001	0.0000	0.0001	С
108 X	1997-02	MDOT	M-103 Taxicab Replacement in Maryland ²	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	Х				1998	on going	0.0005	0.0005	0.0030	0.0090	0.0003	0.0002	0.0002	0.0001	С
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			С
111 X	1998-03	WMATA	Bus Replacement (108 buses)	х				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	х				1998	Ongoing	0.0010	0.0018							SP
114 X	1998-03	FDC	Frederick County Bus Replacement	х						0.0010	0.0000							SP
117 X	1998-03	VDOT	Arlington County Four Mile Run Bike Trail	х				1999	2009	0.0006	0.0004	0.0003	0.0002	0.0003	0.0002	0.0003	0.0001	С
118 X	1998-03	VDOT	Northern Virginia Turn Bays	х				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	х				2001	2003	n/a	n/a							SP
121 X	1998-03	WMATA	WMATA Bus Replacement (252 buses)	Х				2001	2001	0.1016	0.3563							SP
122 X	97 & 98 TIF	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	С
			Various Park and Ride Lots(I-270/MD124, 450 & I-170/MD-					2004/4000										
123 X	1999-04	MDOT	75, 54 spaces)		X			2001/1999	2001	0.0045	0.0157	0.0026	0.0066	0.0023	0.0054	0.0021	0.0037	С
124 X	1999-04	MDOT	Signal Systems (197/MD-198, MD-382 TO US-301,US301)	Х				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	С
126 X	1999-04	VDOT	Falls Church Clean Diesel Bus Service	Х				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	С
128 X	1999-04	VDOT	PRTC Ridesharing	Х				on-going	2000 ongoing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	С
130 X	1996-01	VDOT	M-14: I-66 Feeder Bus Fare Buy Down	Х					1998 onward	0.0141	0.0239	0.0082	0.0100	0.0073	0.0083	0.0066	0.0056	С
131 X	2000-05	MDOT	Various park and Ride Lots	х				2002	2003	0.0039	0.0141	0.0023	0.0059	0.0020	0.0049	0.0018	0.0033	С
132 X	2000-05	MDOT	Signal Systems	х				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	х				2002	2004	0.0040	0.0078	0.0023	0.0033	0.0020	0.0027	0.0018	0.0018	С
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	С
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	С
136 X	2000-05	VDOT	Columbia Pike Trail	х				2000	2009	0.0034	0.0035	0.0020	0.0015	0.0018	0.0012	0.0016	0.0008	С
137 X	2000-05	VDOT	Lee Highway trail	х				2000	2007	0.0017	0.0017	0.0010	0.0007	0.0009	0.0006	0.0008	0.0004	С
138 X	2000-05	VDOT	Arlington Bus Shelter Improvements	х				2005	2005	0.0006	0.0004	0.0003	0.0002	0.0003	0.0002	0.0003	0.0001	С
139 X	2000-05	VDOT	Pentagon Metrostation Improvements	х					2003	0.0045	0.0074	0.0026	0.0031	0.0023	0.0026	0.0021	0.0017	С

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NOs	CREDIT	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	20	011	20	20	20	30	20	140	Project
1403		CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	VOC	NOX	VOC	NOX	VOC	NOX	VOC	NOX	Category '
140	х	2000-05	MDOT	East/West Intersection Improvements			х		2005	2005	0.0232	0.0109	0.0134	0.0046	0.0120	0.0038	0.0108	0.0026	С
141	х	2001-06	Feds	Federal Transit/Ridesharing subsidy	х				on-going		0.0576	0.0831	0.0333	0.0348	0.0298	0.0288	0.0268	0.0196	С
142	х	2002-07	WMATA	100 CNG buses	Х				2002		0.0000	0.1254							SP (TCM)
143	х	2002-07	WMATA	ULSD with CRT filters	х				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				Х	2005	2006	0.0085	0.0145							н
145	х	2003-08	DC	D.C.Incident Response & TrafficManagement System	х				2005	2004	0.0162	0.0405	0.0094	0.0130	0.0100	0.0168	0.0090	0.0114	TR
146	х	2003-08	DC	Bicycle Lane in D. C. (35 Mile)	Х				2005	2008	0.0094	0.0078	0.0054	0.0032	0.0049	0.0027	0.0044	0.0018	C (TCM)
147	х	2003-08	DC	Bicycle Racks in D. C. (500)	Х				2005	2004	0.0013	0.0009	0.0008	0.0004	0.0007	0.0003	0.0006	0.0002	C (TCM)
148	х	2003-08	DC	External Bicycle Racks on WMATA Buses in D. C. (600)	Х				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)				Х	2005		0.0000	0.0002							SP
150	х	2003-08	DC	Sidewalks in D.C. (\$ 5 million)	Х				2005	2004	0.0353	0.0510	0.0204	0.0213	0.0183	0.0177	0.0165	0.0120	С
151	х	2003-08	DC	CNG Refuse Haulers (2)	Х				2005	2004	0.0000	0.0018							H (TCM)
152	х	2003-08	DC	Circulator /Feeder Bus Routes	Х				2005	2003	0.0129	0.0184	0.0074	0.0077	0.0067	0.0064	0.0060	0.0043	С
153	х	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	С
155		2003-08	MDOT	Employer Vanpool Program (WWB)				Х	2005		0.0018	0.0038							С
156	х	2003-08	MDOT	Green Line Link			Х		2005	n/a	0.0025	0.0043	0.0015	0.0018	0.0013	0.0015	0.0012	0.0010	С
157	х	2003-08	MDOT	Park & Ride Lots - Southern Maryland			Х		2005	2005	0.0049	0.0100	0.0028	0.0042	0.0025	0.0035	0.0023	0.0023	С
158	х	2003-08	MDOT	Prince George's County- Bus Exp			Х		2005	n/a	0.0354	0.0603	0.0204	0.0252	0.0183	0.0209	0.0165	0.0142	С
159	х	2003-08	MDOT	MTA - Bus Service Expansion			Х		2005	n/a	0.0080	0.0144	0.0046	0.0060	0.0041	0.0050	0.0037	0.0034	С
160	Х	2003-08	MDOT	Ride- On - Super Discount			Х		2005	n/a	0.0009	0.0013	0.0005	0.0005	0.0005	0.0005	0.0004	0.0003	С
161	х	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	х	2003-08	MDOT	Universal Transportation Access (MD + WMATA)			х		2005	n/a	0.0158	0.0229	0.0091	0.0096	0.0082	0.0079	0.0074	0.0054	С
163	х	2003-08	MCG	Construction of 1300 additional Parking Spaces at Grosvenor Metro Garage	Х				2004		0.0045	0.0096	0.0026	0.0040	0.0025	0.0036	0.0022	0.0025	C (TCM)
164	х	2003-08	MCG	Bethesda Shuttle Bus Services	Х				2004		0.0031	0.0044	0.0018	0.0018	0.0016	0.0015	0.0014	0.0010	С
165	х	2003-08	MCG	External Bicycle Racks on Ride-On Buses in Montgomery County	Х				2004		0.0006	0.0009	0.0003	0.0004	0.0003	0.0003	0.0003	0.0002	С
166	х	2003-08	MCG	New CNG Powered Light Duty Vehicle fleet in the County	Х				2004		0.0000	0.0001							SP
167	Х	2003-08	MCG	Free Bus Service on Selected Routes on I-270	х				2004		0.0011	0.0015	0.0006	0.0006	0.0005	0.0005	0.0005	0.0004	С
168	х	2003-08	MCG	Annual Sidewalk Program	Х				2004		0.0168	0.0243	0.0097	0.0102	0.0087	0.0084	0.0078	0.0057	С
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	С
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	С
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	С
172	х	2003-08	MDOT	Sidewalks (Bikes/Pedestrian) at / near Rail Stations	Х				2005	2002	0.0092	0.0135	0.0053	0.0057	0.0048	0.0047	0.0043	0.0032	С
173	х	2003-08	MDOT	Neighborhood Sidewalks Improvements (Bike/Pedestrian)	Х				2005	2004	0.0032	0.0015	0.0018	0.0006	0.0017	0.0005	0.0015	0.0004	С
174	х	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	С
175	х	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	С

Proje	ect Catego	ry: IR - Traf	TIC Stream, (C - Commute, H - Heavy Duty Vehicles (Engine Technology), SI			pe, TCM - T ATION STAT		ORIGINAL AC	TUAL									
NOs	CREDIT	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	20	011	20	20	20	130	20	140	Project
NOS		CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	VOC	NOX	VOC	NOX	VOC	NOX	VOC	NOX	Category *
176	х	2003-08	VDOT	Universal Transportation Access Program	х				2005	2005-07	0.0012	0.0017	0.0007	0.0007	0.0006	0.0006	0.0005	0.0004	С
177	х	2003-08	VDOT	Interactive Rideshare & Kiosk Initiative			х		2008 onward		0.0004	0.0007	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	С
178	х	2003-08	VDOT	Mobile Commuter Stores	х				2005	2005	0.0021	0.0036	0.0012	0.0015	0.0011	0.0012	0.0010	0.0008	С
179	х	2003-08	VDOT	Telework Incentive Program (Telework VA) ¹	х				2005	Fall 2006	0.0007	0.0011	0.0004	0.0005	0.0004	0.0004	0.0003	0.0003	С
180	х	2003-08	VDOT	Commuter Choice	Х				2005		0.0009	0.0013	0.0005	0.0005	0.0005	0.0004	0.0004	0.0003	С
181	х	2003-08	VDOT	Employer Shuttle Services				X	2005		0.0112	0.0152	0.0065	0.0064	0.0058	0.0053	0.0052	0.0036	С
184	Х	2003-08	VDOT	Van Start / Van Save	Х				2005	till 2006	0.0014	0.0024							С
185	х	2003-08	VDOT	Metro Shuttle Bus			Х		2005	1999-2005	0.0012	0.0024	0.0007	0.0010	0.0006	0.0008	0.0005	0.0006	С
187	Х	2003-08	VDOT	VRE Mid-Day Train Service	Х				2005	2002	0.0016	0.0027	0.0009	0.0011	0.0008	0.0009	0.0007	0.0006	С
190	х	2003-08	VDOT	Employer Vanpool Program (Bridge deck)	х				2005	2004 - 2008	0.0000	0.0000							С
191	х	2003-08	VDOT	Town of Leesburg P&R Lot	х				2005	2010	0.0019	0.0036	0.0011	0.0015	0.0010	0.0012	0.0009	0.0008	С
192	х	2003-08	VDOT	District-wide P&R Lots	Х				2005	2001-2005	0.0111	0.0205	0.0064	0.0086	0.0058	0.0071	0.0052	0.0048	С
193	х	2003-08	VDOT	Additional Parking at 4 Metro stations	х				2005	2005	0.0143	0.0306	0.0083	0.0128	0.0074	0.0106	0.0067	0.0072	С
196	х	2003-08	WMATA	64 CNG Buses (Purchased in 2001)	Х				2005	2004	0.0020	0.0804							SP (TCM)
197	х	2003-08	WMATA	250 CNG Buses (175 buses by Dec. 2004; 75 buses by mid 2006)	х				2005	Jun-06	0.0079	0.3139							SP
198	Х	2003-08	WMATA	60 Engine Replacement (MY 1992 & 1993 MY buses)	Х				2004	2004	0.0132	0.0697							SP
199	х	2003-08	WMATA	Car Sharing Program	х				2005	2004	0.0008	0.0017	0.0005	0.0007	0.0004	0.0006	0.0004	0.0004	С
200	х	2003-08	WMATA	Bikes Racks on WMATA Buses in VA (372 Bike Racks)	Х				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)				Х	2005		0.005	0.012	0.0055	0.0133					SP
203	х	2003-08	MDOT	Replace 55 Montgomery County 10 yr. old buses w/ new CNG buses			х		2005	Ongoing	0.0440	0.1503	0.0459	0.1628					SP
204		2003-08	MDOT	Neighborhood Bus Shuttle (5 circulator routes)				Х	2005		0.007	0.011	0.0043	0.0047	0.0038	0.0039	0.0034	0.0026	С
205	х	2003-08	MDOT	New Surface Parking at Transit Centers (500 spaces)			х		2005	2005	0.0026	0.0055	0.0015	0.0023	0.0013	0.0019	0.0012	0.0013	С
206		2003-08	MDOT	Additional Bike Lockers at Metro-Stations				Х	2005		0.0130	0.0192	0.0075	0.0080	0.0067	0.0067	0.0061	0.0045	С
207	х	2003-08	MDOT	Bike Facilities at PnR Lots or other similar location			х		2005	2005	0.0092	0.0152	0.0053	0.0064	0.0048	0.0053	0.0043	0.0036	С
208		2003-08	MDOT	CNG Fueling Stations				Х	2005		0.1217	0.1080							SP
209		2003-08	MDOT	Gas cap replacements (ROP Credit)				Х	2005		N/A	N/A	N/A	N/A	N/A	N/A			SP
210		2003-08	MDOT	Gas can turnover (ROP Credit)				Х	2005		N/A	N/A	N/A	N/A	N/A	N/A			SP
211	х	2003-08	MDOT	External Bicycle Racks on WMATA Buses (486 MD buses)	Х				2005	2002	0.0014	0.0020	0.0008	0.0008	0.0007	0.0007	0.0006	0.0005	C (TCM)
212	х	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	С
213		2003-08	MDOT	Transit Prioritization - Queue Jumps				Х	2005		0.003	0.003	0.0018	0.0014	0.0016	0.0012	0.0014	0.0008	С
214	х	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	С
215	х	2003-08	MDOT	Improvements to Pedestrian Access in TOD areas (4 locations)			х		2005	Ongoing	0.0059	0.0080	0.0034	0.0033	0.0030	0.0028	0.0027	0.0019	С
216	х	2003-08	MDOT	Telecommuting Expansion ¹	x				2005	Ongoing	0.0636	0.1109	0.0367	0.0464	0.0330	0.0385	0.0296	0.0261	С
217		2003-08	MDOT	Replace older Diesel Engine in Public Sector vehicles				Х	2005		0.0227	0.1200							Н
218	х	2003-08	VDOT	MV-92 Telecommuting Program - Expanded ¹	x				2005	2005	0.0680	0.1184	0.0392	0.0496	0.0352	0.0411	0.0316	0.0279	С

				- Commute, 11- Heavy Duty Venicles (Engine Technology), Si		PLEMENTA		'	ORIGINAL AC										
						LEMENT		-	0.410114712710										
NOs	CREDI	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	20	111	20	20	20	30	20)40	Project
	TAKEN	CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	VOC	NOX	VOC	NOX	VOC	NOX	VOC	NOX	Category *
219	х	2003-08	VDOT	MV-123 Employer Outreach for Public Sector Employees ²	х				2005	2003	0.0151	0.0218	0.0087	0.0091	0.0078	0.0076	0.0070	0.0051	С
220	х	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)	Х				2007	2008	0.0008	0.0016	0.0005	0.0007	0.0005	0.0005	0.0004	0.0004	С
222	х	2007-12	MDOT	MDOT P & R Lots at US 340 (66-99 spaces, Frederick Co.)	Х				2007	2007	Credits shown in	TS 221 (for 99 s	paces)						
223	х	2008-13	MDOT	MCG/MDOT P & R Lots at US 340 & Mt Zion Rd. (37 speces)	X				2008	2008	0.0006	0.0012	0.0004	0.0005	0.0003	0.0004	0.0003	0.0003	
224	х	2008-13	MDOT	MCG/MDOT P & R Lots at US 340 & Mt Zion Rd expansion (39:	speces)		X		2011	2011	Credits included	in TS 224 (for 37	+ 39 spaces)						
225	х	2008-13	MDOT	MCG/MDOT P & R Lots at I 70 & MD 355 (100 speces)			X		2010	2010	0.0008	0.0016	0.0005	0.0007	0.0005	0.0006	0.0004	0.0004	
226	х	2008-13	MDOT	MCG/MDOT P & R Lots at I 270 & MD 80 (164 speces)	Х				2009	2009	0.0014	0.0026	0.0008	0.0011	0.0007	0.0009	0.0007	0.0006	
227	х	2008-13	MDOT	MDOT Syglal System Reviewing			X		2010	on-going	Credits shown in	Regional signal 1	TERM - TS 220						
228	х	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	
									Available Em	ssions Credits	2.353	4.429	1.430	1.113	1.286	0.755	1.156	0.512	

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

					IM	IPLEMENTA	TION STAT	US	PROJECTED	ACTUAL			TONS/D.	AY REDUC	CTION CRE	DITED			
NOs	CREDIT	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	201	11	202	20	20)30	20	140	Project
	TAKEN	CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	Category
221	Х	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				Х			0.0010	0.0037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
223	Х	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	С
224	Х	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	С
225	Х	1996-01 TIP	DC	M-103 Taxicab Replacement (DC)				Х	2015		0.0000	0.0000	0.1745	0.3000	0.3490	0.6000	0.3138	0.4070	Н
226	Х	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	Н
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	С
228	Х	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	С
229	Х	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	С
230	Х	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	С
231	Х	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	С
232		1997-02 TIP	MGC	Burtonsville Transit Center				Х			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
233	Х	1997-02 TIP	MGC	Silver Spring Transit Access							0.0000	0.0009	0.0000	0.0003	0.0000	0.0002	0.0000	0.0001	С
234	Х	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	С

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 toal available emissions credits

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

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

r roject Cate	gory. TK - Traffic Stream,	C - Commute, H - Heavy Duty Vehicles (Engine Technology), S						1							1	
			II.	MPLEMENTATION ST	ATUS	ORIGINAL AC	TUAL					T				-
NOs CRED	IT TIP			SCALED- UNDER	-	COMPLETION	COMPLETION	2	011	2	2020	2	030	2	040	Project
TAKE	N CREDITED AGENC	Y PROJECT	FULL	BACK WAY	REM	DATE	DATE	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	Category *
9 X	1994-99 MDOT	Park & Ride Lot - MD 210/ MD 373	х			2000	2003	0.0094	0.3912	0.0095	0.1000	0.0095	0.0830	0.0092	0.0669	С
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	С
38 X	1995-00 MDOT	Signal Systems - MD 85 Executive Way to MD 355	х			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.	х			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.	х			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	х			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	х			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	Х				2000 & 2001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	С
52 X	1995-00 VDOT	Fairfax County Bus Shelter (Fairfax Co. TDM program)		х		2000	2001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	С
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)	х			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	С
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	С
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	С
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	С
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	С
64 X	1995-00 MDOT	MARC Expansion Coaches	Х			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		х		varies	1995, 2001	0.1030	4.3036	0.1050	1.0999	0.1050	0.9128	0.1010	0.7362	С
67 X	1995-00 VDOT	I-66 and Stringfellow Rd. Park and Ride	х			2000	2000 end	0.0624	2.6082	0.0636	0.6666	0.0636	0.5532	0.0612	0.4462	С
68 X	1995-00 VDOT	Lake Ridge Park and Ride (now called Tacketts Mill lot)	Х				1999/2000	0.0312	1.3041	0.0318	0.3333	0.0318	0.2766	0.0306	0.2231	С
69 X	1995-00 VDOT	Bicycle Trails and Facilities (Arlington & Fairfax Co - 7 locations)		х		varies	2010-12	0.0531	2.2170	0.0541	0.5666	0.0541	0.4702	0.0520	0.3793	С
70 X	1995-00 VDOT	Improved Acceess 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	С
71 X	1995-00 VDOT	I-66 HOV access at Monument Dr.	Х				1997	0.0624	2.6082	0.0636	0.6666	0.0636	0.5532	0.0612	0.4462	С
72 X	1995-00 DC	Bicycle Facilities	х					0.0624	2.6082	0.0636	0.6666	0.0636	0.5532	0.0612	0.4462	С
73 X	1995-00 REGION	COG Regional Ridesharing Support	х				on-going	1.7573	69.8906	1.7913	17.8484	1.7913	14.9204	1.7226	12.0338	С
74 X	1995-00 REGION	M-47 Integrated Ridesharing	х				on-going	0.6082	24.3995	0.6199	6.2319	0.6199	5.2028	0.5961	4.1962	С
75 X	1995-00 REGION	M-92 Telecommuting Support	х				on-going	1.2638	51.9120	1.2883	13.2638	1.2883	11.0351	1.2388	8.9002	С
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)		х		1999	Summer 2001	0.0094	0.3912	0.0095	0.1000	0.0095	0.0830	0.0092	0.0669	С

riojeci	Categor	iy. IIX - IIai	ic Stream, v	C - Commute, H - Heavy Duty Vehicles (Engine Technology), S		PLEMENTA			ORIGINAL AC	TUAL									
NOs (CREDIT	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	20)11	2	2020	20	030	20	040	Project
	TAKEN	CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	Category *
81	Х	1996-01	VDOT	Arlington County Metrocheck Program	Х				1997	1997 Onwards	0.0094	0.3912	0.0095	0.1000	0.0095	0.0830	0.0092	0.0669	С
82	х	1996-01	VDOT	Old Dominion Drive Bike Trail			х		2000	2010-11	0.0031	0.1304	0.0032	0.0333	0.0032	0.0277	0.0031	0.0223	С
83	x	1996-01	WMATA	Bus Replacement (see line 58, above)	х					1998		Cre	dit taken in	line 58, abov	е				SP
85	Х	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	С
90	Х	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	С
91	х	1996-01	REGION	M-70a Bicycle Parking			Х		1999		0.0219	0.9129	0.0223	0.2333	0.0223	0.1936	0.0214	0.1562	С
92	Х			M-92 Telecommuting Support ¹	Combined	I with item #	75												С
95	х	1997-02	MCG	Germantown Transit Center	Х				2005		0.0593	2.4778	0.0605	0.6333	0.0605	0.5256	0.0581	0.4239	C (TCM)
102	Х	1997-02	PG	Prince George's County Bus Replacement	х				1998	1998									SP (TCM)
106	Х	1997-02	VDOT	PRTC Employer Commuting Outreach Program	х					1977 on-going	0.0016	0.0652	0.0016	0.0167	0.0016	0.0138	0.0015	0.0112	С
107	х	1997-02	VDOT	PRTC Multimodal Strategic Marketing Implementation Plan	Х					1977 on-going	0.0016	0.0652	0.0016	0.0167	0.0016	0.0138	0.0015	0.0112	С
108	Х	1997-02	MDOT	M-103 Taxicab Replacement in Maryland ²	х				2005	Stopped									SP
109	Х	1997-02	REGION	M-70b Employer Outreach for Bicycles	х				1998	on going	0.0034	0.1650	0.0035	0.0423	0.0035	0.0344	0.0034	0.0278	С
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			С
111	Х	1998-03	WMATA	Bus Replacement (108 buses)	х				1999	1999									SP
112	х	1998-03	MCG	Montgomery County Bus Replacement	X					Ongoing									SP
113	Х	1998-03	PG	Prince George's County Bus Replacement	х				1998	Ongoing									SP
114	х	1998-03	FDC	Frederick County Bus Replacement	х														SP
117	х	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	С
118	Х	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	Х	1998-03	VDOT	Fairfax City Bus Replacement	X				2001	2003									SP
121	Х	1998-03	WMATA	WMATA Bus Replacement (252 buses)	х				2001	2001									SP
122	Х	97 & 98 TIP	REGION	M-101a Mass Marketing Campagin (Consumer)			х			2005	0.211624493	8.4931	0.2157	2.1692	0.2157	1.8109	0.2074	1.4606	С
123	х	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	С
124	Х	1999-04	MDOT	Signal Systems (197/MD-198, MD-382 TO US-301,US301)	х				2000	2002	-0.0110	-0.4591	-0.0112	-0.1173	-0.0112	-0.0974	-0.0108	-0.0785	TR
125	Х	1999-04	VDOT	Transit Center at 7 Corners	х				2002	2001	0.0062	0.2608	0.0064	0.0667	0.0064	0.0553	0.0061	0.0446	С
126	Х	1999-04	VDOT	Falls Church Clean Diesel Bus Service	Х				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	С
128	Х	1999-04	VDOT	PRTC Ridesharing	х				on-going	2000 ongoing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	С
130	Х	1996-01	VDOT	M-14: I-66 Feeder Bus Fare Buy Down	х					1998 onward	0.1717	7.1726	0.1750	1.8331	0.1750	1.5214	0.1683	1.2270	С
131	х	2000-05	MDOT	Various park and Ride Lots	х				2002	2003	0.1015	4.2398	0.1035	1.0836	0.1035	0.8993	0.0995	0.7253	С

* Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology)														
	II.	MPLEMENTATION STA	TUS	ORIGINAL AC	TUAL									+
NOs CREDIT TIP		SCALED- UNDER-		COMPLETION	COMPLETION		011 Precursor		2020		030 Precursor		040 Precursor	Project
TAKEN CREDITED AGENCY PROJECT	FULL	BACK WAY	REM	DATE	DATE	PM _{2.5}	NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	NOx	PM _{2.5}	NOx	Category *
132 X 2000-05 MDOT Signal Systems	х			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/Hooes Rds. Park and Ride	×			2002	2004	0.0562	2.3474	0.0573	0.5999	0.0573	0.4979	0.0551	0.4016	С
134 X 2000-05 VDOT 300 Spaces at Backlick Rd	×			2003	2007	0.0406	1.6954	0.0414	0.4333	0.0414	0.3596	0.0398	0.2900	С
135 X 2000-05 VDOT Accotink-Gateway Connector Trail	×			2002	2005	0.0312	1.3041	0.0318	0.3333	0.0318	0.2766	0.0306	0.2231	С
136 X 2000-05 VDOT Columbia Pike Trail		х		2000	2009	0.0250	1.0433	0.0255	0.2666	0.0255	0.2213	0.0245	0.1785	С
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	С
138 X 2000-05 VDOT Arlington Bus Shelter Improvements	х			2005	2005	0.0031	0.1304	0.0032	0.0333	0.0032	0.0277	0.0031	0.0223	С
139 X 2000-05 VDOT Pentagon Metrostation Improvements	х				2003	0.0531	2.2170	0.0541	0.5666	0.0541	0.4702	0.0520	0.3793	С
140 X 2000-05 MDOT East/West Intersection Improvements		×		2005	2005	0.0780	3.2603	0.0795	0.8332	0.0795	0.6915	0.0765	0.5577	С
141 X 2001-06 Feds Federal Transit/Ridesharing subsidy	х			on-going		0.5962	24.9086	0.6078	6.3660	0.6078	5.2833	0.5844	4.2612	С
142 X 2002-07 WMATA 100 CNG buses	Х			2002										SP (TCM)
143 X 2002-07 WMATA ULSD with CRT filters	×			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-23 12 Taxicabs with CNG cabs			х	2005	2006									н
145 X 2003-08 DC D.C.Incident Response & TrafficManagement System	х			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)	х			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)	х			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)			Х	2005										SP
150 X 2003-08 DC Sidewalks in D.C. (\$ 5 million)	×			2005	2004	0.3618	15.2986	0.3688	3.9106	0.3688	3.2400	0.3547	2.6131	С
151 X 2003-08 DC CNG Refuse Haulers (2)	х			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	С
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	С
155 2003-08 MDOT Employer Vanpool Program (WWB)			Х	2005										С
156 X 2003-08 MDOT Green Line Link		х		2005	n/a	0.0320	1.2827	0.0326	0.3276	0.0326	0.2735	0.0314	0.2206	С
157 X 2003-08 MDOT Park & Ride Lots - Southern Maryland		х		2005	2005	0.0690	2.6365	0.0704	0.6728	0.0704	0.5660	0.0677	0.4565	С
158 X 2003-08 MDOT Prince George's County- Bus Exp		х		2005	n/a	0.4487	17.9877	0.4574	4.5942	0.4574	3.8360	0.4398	3.0939	С
159 X 2003-08 MDOT MTA - Bus Service Expansion		х		2005	n/a	0.1087	4.2903	0.1108	1.0955	0.1108	0.9168	0.1065	0.7394	С
160 X 2003-08 MDOT Ride- On - Super Discount		х		2005	n/a	0.0092	0.3892	0.0094	0.0995	0.0094	0.0824	0.0090	0.0665	С
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)		х		2005	n/a	0.1622	6.8595	0.1654	1.7534	0.1654	1.4527	0.1590	1.1717	С
Construction of 1300 additional Parking Spaces at 163 X 2003-08 MCG Grosvenor Metro Garage	х			2004		0.0751	2.8445	0.0765	0.7258	0.0765	0.6113	0.0736	0.4930	C (TCM)
· · · · · · · · · · · · · · · · · · ·					,						 			

				C - Commute, H - Heavy Duty Vehicles (Engine Technology), SI			TION STA		ORIGINAL AC				T	Т					1
NOs (CREDIT	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	20	011	2	2020	2	030	2	040	Project
	TAKEN	CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	Category *
164	х	2003-08	MCG	Bethesda Shuttle Bus Services	х				2004		0.0310	1.3151	0.0316	0.3362	0.0316	0.2784	0.0304	0.2245	С
165	x	2003-08	MCG	External Bicycle Racks on Ride-On Buses in Montgomery County	Х				2004		0.0063	0.2649	0.0064	0.0677	0.0064	0.0561	0.0062	0.0453	С
166	x	2003-08	MCG	New CNG Powered Light Duty Vehicle fleet in the County	X				2004										SP
167	Х	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	С
168	Х	2003-08	MCG	Annual Sidewalk Program	Х				2004		0.1723	7.2850	0.1756	1.8622	0.1756	1.5428	0.1689	1.2444	С
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	С
170		2003-08	MDOT	Bethesda-8, 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	С
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	С
172	Х	2003-08	MDOT	Sidewalks (Bikes/Pedestrian) at / near Rail Stations	х				2005	2002	0.0964	4.0484	0.0983	1.0347	0.0983	0.8581	0.0945	0.6921	С
173	Х	2003-08	MDOT	Neighborhood Sidewalks Improvements (Bike/Pedestrian)	Х				2005	2004	0.0037	0.4876	0.0038	0.1259	0.0038	0.0944	0.0036	0.0761	С
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	С
175	Х	2003-08	MDOT	Maryland bus Transit Service Expansion	Х				2005	2004	0.2321	8.7946	0.2366	2.2442	0.2366	1.8900	0.2275	1.5243	С
176	Х	2003-08	VDOT	Universal Transportation Access Program	Х				2005	2005-07	0.0122	0.5144	0.0124	0.1315	0.0124	0.1090	0.0120	0.0879	С
177	Х	2003-08	VDOT	Interactive Rideshare & Kiosk Initiative			х		2008 onward		0.0048	0.1943	0.0049	0.0496	0.0049	0.0414	0.0048	0.0334	С
178	Х	2003-08	VDOT	Mobile Commuter Stores	Х				2005	2005	0.0268	1.0743	0.0273	0.2744	0.0273	0.2291	0.0263	0.1848	С
179	Х	2003-08	VDOT	Telework Incentive Program (Telework VA) ¹	х				2005	Fall 2006	0.0079	0.3283	0.0080	0.0839	0.0080	0.0696	0.0077	0.0562	С
180	Х	2003-08	VDOT	Commuter Choice	х				2005		0.0089	0.3862	0.0091	0.0988	0.0091	0.0816	0.0088	0.0658	С
181	Х	2003-08	VDOT	Employer Shuttle Services				X	2005		0.1060	4.5846	0.1081	1.1723	0.1081	0.9682	0.1039	0.7809	С
184	Х	2003-08	VDOT	Van Start / Van Save	X				2005	till 2006									С
185	Х	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	С
187	Х	2003-08	VDOT	VRE Mid-Day Train Service	Х				2005	2002	0.0200	0.7986	0.0204	0.2040	0.0204	0.1704	0.0196	0.1374	С
190	Х	2003-08	VDOT	Employer Vanpool Program (Bridge deck)	х				2005	2004 - 2008									С
191	Х	2003-08	VDOT	Town of Leesburg P&R Lot	х				2005	2010	0.0274	1.0695	0.0280	0.2730	0.0280	0.2289	0.0269	0.1847	С
192	Х	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	С
193	Х	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	С
196	Х	2003-08	WMATA	64 CNG Buses (Purchased in 2001)	х				2005	2004									SP (TCM)
197	Х	2003-08	WMATA	250 CNG Buses (175 buses by Dec. 2004; 75 buses by mid 2006)	Х				2005	Jun-06									SP
198	Х	2003-08	WMATA	60 Engine Replacement (MY 1992 & 1993 MY buses)	Х				2004	2004									SP
199	Х	2003-08	WMATA	Car Sharing Program	Х	-			2005	2004	0.0130	0.4933	0.0133	0.1259	0.0133	0.1060	0.0128	0.0855	С
200	Х	2003-08	WMATA	Bikes Racks on WMATA Buses in VA (372 Bike Racks)	Х				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)				Х	2005		0.0483	2.0171	0.0492	0.5155					SP

* Projec	t Catego	ry: TR - Traff	ic Stream, (C - Commute, H - Heavy Duty Vehicles (Engine Technology), SF	P- Specific	Vehicle Typ	e, TCM - T	ransportatio	n Control Measures	S									
					IM	PLEMENTA	TION STAT	rus	ORIGINAL AC	TUAL									<u> </u>
NOs	CREDIT	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	20	2011 PM _{2.5} Precursor NOx		2020		030	2040		Project
	TAKEN	CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE	PM _{2.5}			Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	Category *
203	х	2003-08	MDOT	Replace 55 Montgomery County 10 yr. old buses w/ new CNG buses			Х		2005	Ongoing	0.5910	24.6908	0.6024	6.3103					SP
204		2003-08	MDOT	Neighborhood Bus Shuttle (5 circulator routes)				Х	2005	- Sangaring	0.0808	3.3573	0.0824	0.8580	0.0824	0.7126	0.0792	0.5747	С
204	х	2003-08	MDOT	New Surface Parking at Transit Centers (500 spaces)			х		2005	2005	0.0428	1.6235	0.0024	0.4143	0.0436	0.3488	0.0419	0.2813	С
206		2003-08	MDOT	Additional Bike Lockers at Metro-Stations				X	2005	2003	0.1368	5.7456	0.1395	1.4685	0.1395	1.2179	0.1341	0.9823	С
207	Х	2003-08	MDOT	Bike Facilities at PnR Lots or other similar location			х		2005	2005	0.1122	4.5381	0.1144	1.1592	0.1144	0.9667	0.1100	0.7797	С
208		2003-08	MDOT	CNG Fueling Stations			^	Х	2005	2000	0.1122	4.5501	0.1144	1.1002	0.1144	0.5007	0.1100	0.1131	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	х	2003-08	MDOT	External Bicycle Racks on WMATA Buses (486 MD buses)	Х				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				Х	2005	21.921.9	0.0221	1.0366	0.0225	0.2654	0.0225	0.2168	0.0217	0.1748	С
214	Х	2003-08	MDOT	Commuter Choice Benefit/Tax Credit - Marketing Expansion	Х				2005	Ongoing	0.5623	23.6531	0.5732	6.0457	0.5732	5.0126	0.5512	4.0428	С
215	X	2003-08	MDOT	Improvements to Pedestrian Access in TOD areas (4 locations)			х		2005	Ongoing	0.0556	2.4022	0.0567	0.6142	0.0567	0.5074	0.0545	0.4092	С
216		2003-08	MDOT	Telecommuting Expansion ¹	х				2005	Ongoing	0.8305	33.0827	0.8466	8.4488	0.8466	7.0611	0.8141	5.6950	С
217		2003-08	MDOT	Replace older Diesel Engine in Public Sector vehicles				Х	2005										н
218	х	2003-08	VDOT	MV-92 Telecommuting Program - Expanded ¹	х				2005	2005	0.8869	35.3306	0.9041	9.0228	0.9041	7.5408	0.8694	6.0819	С
219	x	2003-08	VDOT	MV-123 Employer Outreach for Public Sector Employees ²	х				2005	2003	0.1544	6.5292	0.1574	1.6690	0.1574	1.3828	0.1514	1.1152	С
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)	Х				2007	2008	0.0119	0.4660	0.0086	0.0831	0.0086	0.0709	0.0083	0.0572	С
222	х	2007-12	MDOT	MDOT P & R Lots at US 340 (66-99 spaces, Frederick Co.)	Х				2007	2007									
223	х	2008-13	MDOT	MCG/MDOT P & R Lots at US 340 & Mt Zion Rd. (37 speces)	Х				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 speces)			X		2011	2011									
225	х	2008-13	MDOT	MCG/MDOT P & R Lots at I 70 & MD 355 (100 speces)			X		2010	2010	0.0120	0.4707	0.0123	0.1202	0.0123	0.1007	0.0118	0.0812	
226	Х	2008-13	MDOT	MCG/MDOT P & R Lots at I 270 & MD 80 (164 speces)	x				2009	2009	0.0197	0.7720	0.0201	0.1971	0.0201	0.1652	0.0193	0.1332	
227	Х	2008-13	MDOT	MDOT Syglal System Reviewing			X		2010	on-going									
228	Х	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	
									Available I	Emissions Credits	17.320	807.642	15.744	187.199	15.141	150.310	14.560	121.230	

TRANSPORTATION EMISSION REDUCTION MEASURES (CLRP Projects Only) Part B - Yearly PM $_{2.5}$ and Precursor NOx Emissions

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

				- Commute, 11 - Engine Technology (Fleavy Budy V		IPLEMENTA			PROJECTED	ACTUAL	TONS/ANNUM REDUCTION CREDITED								
NOs	CREDIT	TIP				SCALED-	UNDER-		COMPLETION	COMPLETION	2011		2020		2030		2040		Project
	T.1./=1.	00501750		220.507		5.00			2.75	2175	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	PM _{2.5}	Precursor NOx	0.1
		CREDITED	AGENCY	PROJECT	FULL	BACK	WAY	REM	DATE	DATE									Category
221	Х	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	С
224	Х	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	С
225	Х	1996-01 TIP	DC	M-103 Taxicab Replacement (DC)				Х	2015		0.0000	0.0000	5.2412	54.8984	12.6415	109.8936	12.1565	88.6330	Н
226	Х	STADIUM A	ANALYSIS	M-103 Taxicab Replacement (MD)				X	2008		0.0000	0.0000	4.1929	43.9187	5.0566	43.9574	4.8626	35.4532	Н
227	Х	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	С
228	Х	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	С
229	Х	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	С
230	Х	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	С
231	Х	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	С
232		1997-02 TIP	MGC	Burtonsville Transit Center				Х			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	С
234	Х	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	С

PLAN TOTAL	0.3511	90.3688	5.6215	80.9544	12.7611	117.8361	12.2715	95.0389
GRAND TOTAL (Current Measures + CLRP plan)	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 toal available emissions credits

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