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

RESOLUTION FINDING THAT AN AMENDMENT TO THE 2009 CONSTRAINED LONG RANGE PLAN AND THE TRANSPORTATION IMPROVEMENT PROGRAM FOR FY 2010-2015 TO INCLUDE THE PURPLE LINE LIGHT RAIL PROJECT AND THE TRANSPORTATION COMPONENTS ASSOCIATED WITH THE 'RETURN TO L'ENFANT" DEVELOPMENT OF I-395 CONFORM WITH THE REQUIREMENTS OF THE CLEAN AIR ACT AMENDMENTS OF 1990

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

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

**WHEREAS**, a work program to conduct a conformity assessment of this amendment was developed to address all procedures and requirements, including public and interagency consultation, and the work program was released for public comment on May 14 and approved by the TPB at its June 17, 2009 meeting; and

**WHEREAS,** on June 17, 2009, the TPB approved the submissions for inclusion in the air quality conformity assessment for this amendment to the 2009 CLRP and FY 2010-2015 TIP which includes the following:

- the Purple Line Light Rail project,
- changing the MD 3 highway widening project from US 50 to the Anne Arundel County Line to a study,
- changing the MD28/198 Norbeck Road/Spencerville Road reconstruction project from MD 97 to I-95 to a study,
- the transportation component inputs associated with the "Return to

- L'Enfant" development over I-395,
- changing the number of general purpose travel lanes along K Street NW between 7th Street and 23rd Street from three to two; and

**WHEREAS**, on September 10, 2009, the draft air quality conformity determination results for this amendment to the 2009 CLRP and FY 2010-2015 TIP and web-based information were released for a 30-day public comment period and inter-agency review; and

WHEREAS, the analysis reported in a report entitled: Air Quality Conformity
Assessment: Maryland Department of Transportation and District of Columbia
Department of Transportation Amendments to the 2009 Constrained Long Range Plan
and the FY 2010-2015 Transportation Improvement Program for the Washington
Metropolitan Region, dated October 21, 2009 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 interagency consultation requirements, and therefore provides
the basis for a finding of conformity of this amendment to the plan and program with the
requirements of the CAAA; and

WHEREAS, in the attached letter of September 23, 2009, the Metropolitan Washington Air Quality Committee (MWAQC) has provided favorable comments on the Air Quality Conformity Determination for An Amendment to the 2009 CLRP and FY 2010-2015 TIP to Include the Purple Line Light Rail Project and the Transportation Components Associated with the "Return to L'Enfant" Development Over I-395, expressed pleasure that the analysis showed that the addition of the Purple Line will result in an overall increase in transit ridership and a decrease in vehicle miles traveled, and also stated it supports continued investment in transit to assist the region to meet its air quality improvement and greenhouse gas reduction goals;

**NOW, THEREFORE, BE IT RESOLVED THAT** THE NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD determines that this amendment to the 2009 CLRP and FY 2010-2015 TIP, as described in the attached memorandum, the TPB web site, and Appendices A and B of the Air Quality Conformity report, conforms with all requirements of the Clean Air Act Amendments of 1990.

Adopted by the Transportation Planning Board at its regular meeting on October 21, 2009

### **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

September 23, 2009

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

### Dear Chair Jenkins:

The Metropolitan Washington Air Quality Committee (MWAQC) has reviewed the September 16, 2009 Draft Air Quality Conformity Assessment for An Amendment to the 2009 CLRP and FY 2010-2015 TIP to Include the Purple Line Light Rail Project and the Transportation Components Associated with the "Return to L'Enfant" Development over I-395. We are pleased the proposed transportation plan meets both the interim emissions tests and the proposed new motor vehicle emissions budgets for the PM2.5 standards, as well as the new 2008 Reasonable Further Progress (RFP) ozone motor vehicle budget which became effective on September 21, 2009.

As allowed by EPA in the interim before the 2009/2010 8-hour ozone and PM<sub>2.5</sub> mobile budgets are developed and approved, conformity for the 8-hour ozone standard is being tested against the 1-hour ozone mobile budgets as well as the 2008 8-hour ozone reasonable further progress (RFP) mobile budgets in the region's SIP. We understand that the 8-hour ozone budgets have been submitted to EPA, but only the 2008 Reasonable Further Progress (RFP) budget has been deemed adequate for use in conformity. We are pleased that the region adheres to the 2009 attainment budget, even though it is not yet a requirement. For PM<sub>2.5</sub>, the revised air quality conformity analyses for the 2009 CLRP/FY 2010-2015 TIP passes the build no greater than 2002 interim emissions test the region had previously selected, as well as the new proposed motor vehicle emission budgets proposed in the region's PM2.5 SIP.

We note that this analysis is for an amendment to the regional transportation plan that includes three new projects, including the Purple Line transit rail project in Maryland. We are pleased that the analysis shows that the addition of this project will result in an overall increase in transit ridership and a decrease in Vehicle Miles Traveled. MWAQC supports continued investment in transit to assist the region to meet our air quality improvement and greenhouse gas reduction goals.

We acknowledge the expectation that there will be substantial reductions in transportation emissions occurring by 2020 and in succeeding years, resulting in transportation emissions well below the current maximum allowable emission levels. However, as you are aware, the EPA recently promulgated more stringent National Ambient Air Quality Standard (NAAQS) for both 8-hour ozone and PM<sub>2.5</sub>. EPA is also now considering whether to further tighten the ozone NAAQS and may release 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. If the region is designated as a nonattainment area under these new standards, State Implementation Plans will be due to EPA in

2013. Additional emission reductions will very likely be needed across all sectors to meet these new more stringent standards. 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 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. Phil Mendelson, Chair

Metropolitan Washington Air Quality Committee

### National Capital Region Transportation Planning Board

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

### **MEMORANDUM**

October 21, 2009

To: Transportation Planning Board

From: Jane A. Posey

Subject: Air Quality Conformity Analysis of the 2009 CLRP and FY2010-2015 TIP

Amendments and Responses to Comment

### **INTRODUCTION**

In late Spring, 2009, The Maryland Department of Transportation (MDOT) and the District Department of Transportation (DDOT) each requested an amendment to the 2009 Constrained Long Range Plan (CLRP). MDOT's was for the construction of the Purple Line Light Rail from New Carrollton to Bethesda. It also included the downgrade of two projects in the CLRP to "study" status. These are the widening of MD 3 from US 50 to the Anne Arundel County line, and the reconstruction of MD 28/MD 198 from MD 97 to I-95. DDOT's was for the "Return to L'Enfant" project, a proposed development in the air rights over I-395 between E St. and Massachusetts Ave., NW, as well as a modification to K St., NW to accommodate current plans for the K St. Transitway. Both amendments affect the air quality conformity analysis, and therefore required a new demonstration of air quality conformity before they could be adopted as plan and program elements by the Transportation Planning Board (TPB). This memo summarizes results of the conformity analysis of the amendments and presents data for this analysis compared to that of the original 2009 CLRP approved by the TPB in July. It should be noted that the data included in this report are the results of a complete regional analysis and reflect updated land activity forecasts as well as transportation network changes for the District's Return to L'Enfant project, the Purple Line Light Rail project, and a modified K St. Transitway in the District of Columbia.

### **INPUTS**

### **Land Activity**

With the addition of the Purple Line and the Return to L'Enfant amendments to the CLRP, COG staff asked local jurisdictions to review their land activity data and consider the potential impacts of the projects on the Round 7.2 Cooperative Forecasts. Montgomery County, Prince George's County, and the District of Columbia all made revisions to their data to reflect the inclusion of the projects in the regional analysis. Additionally, some corrections were made to the Prince George's data that were not related to the Purple Line Project. The resulting Cooperative Forecasts are Round 7.2A. Exhibit 1 and Exhibit 2, below, show household and employment changes for the three analysis years for the affected jurisdictions.

### EXHIBIT 1 HOUSEHOLD DATA (ROUND 7.2 VS. 7.2A)

	2010	2010	2010	2020	2020	2020	2030	2030	2030
	7.2	7.2A	DIFF	7.2	7.2A	DIFF	7.2	7.2A	DIFF
DC	275,963	275,963	0	312,611	313,063	+452	334,682	335,196	+514
MONT	362,768	362,768	0	408,769	408,769	0	440,829	441,230	+401
PG	316,927	317,113	+186	343,598	344,020	+422	366,118	367,004	+886
TOTAL	955,658	955,844	+186	1,064,978	1,065,852	+874	1,141,629	1,143,430	+1,801

### EXHIBIT 2 EMPLOYMENT DATA (ROUND 7.2 VS. 7.2A)

	2010	2010	2010	2020	2020	2020	2030	2030	2030
	7.2	7.2A	DIFF	7.2	7.2A	DIFF	7.2	7.2A	DIFF
DC	788,162	788,162	0	859,160	860,915	+1,755	920,576	922,419	+1,843
MONT	510,600	510,600	0	590,662	590,675	+13	670,713	673,725	+3,012
PG	362,286	362,286	0	398,224	398,536	+312	453,423	454,207	+784
TOTAL	1,661,048	1,661,048	0	1,848,046	1,850,126	+2,080	2,044,712	2,050,351	+5,639

### Project Information / Networks

MDOT and DDOT staff provided details necessary to include the projects in the regional highway and transit networks. The Purple Line is a 16-mile long light rail facility featuring 21 stations, with connections to Metrorail at Bethesda, Silver Spring, College Park, New Carrollton, as well as to MARC and Amtrak rail stations. It is scheduled to open in 2018. Also, the projects widening MD 3 from US 50 to the Anne Arundel County line, and reconstructing MD 28/ MD 198 from MD 97 to I-95 were changed to "study" status and removed from the highway networks.

The transportation components of the Return to L'Enfant development include the reconfiguration of two ramps and the closure of the south-bound exit ramp to the 200 block of 3<sup>rd</sup> St. on the portion of I-395 between E. St. and Massachusetts Ave, NW. Also, the reconnection of F St. between 2<sup>nd</sup> and 3<sup>rd</sup> streets for vehicular, bicycle, and pedestrian traffic; and the reconnection of G St. between 2<sup>nd</sup> and 3<sup>rd</sup> streets for bicycle and pedestrian use. The development is scheduled to be completed in 2014, but the closure of the south-bound exit ramp is scheduled for 2010. Additionally, for this analysis, DDOT requested that the networks be revised to reflect the current plans for the K St. Transitway. DDOT noted that the network coding for the K St. Transitway included in the current conforming CLRP shows three general purpose travel lanes on K St., NW between 7<sup>th</sup> St. and 23<sup>rd</sup> St. Recent studies show that a third transit lane is required to allow buses to by-pass buses

that are stopped. As a result, only two general purpose travel lanes will be available along K St. The K St. Transitway is currently scheduled to open in 2017.

To include all components of the projects, it was necessary to complete an analysis for 2010, 2020, and 2030 forecast years. The 2010 networks reflected the closure of the I-395 exit ramp, and the 2020 and 2030 networks reflected all inputs for the amendments, as well as the revision to K St.

### **OUTPUTS**

### Travel Data

Using updated land activity forecasts and networks, travel demand forecasting procedures were executed. When compared with an analysis without the amendments, data trends are as expected. For 2010, with a small network change and only a slight increase in households, changes at the regional level are negligible, with a slight decrease in total vehicle trips, a slight increase in transit trips, and an increase in vehicle miles traveled (VMT). For 2020 and 2030, travel estimates show increases in total vehicle trips, increases in transit trips, and decreases in VMT. This is as expected, with the additional households generating an increase in total trips, but with additional transit service producing a net increase in transit trips as well as a decrease in VMT. Exhibit 3, below, shows summary travel data with and without the amendments.

### Exhibit 3 TRAVEL DATA (2009 CLRP VS. AMENDMENTS)

	2010					
	2009 CLRP	AMENDMENTS	DIFF	PCT DIFF		
TOTAL VEHICLE TRIPS	22,095,449	22,093,363	-2,086	0.00		
TOTAL TRANSIT TRIPS	1,161,497	1,162,146	649	0.00		
VEHICLE MILES TRAVELED	160,882,521	160,911,318	28,797	0.00		

	2020					
	2009 CLRP	<b>AMENDMENTS</b>	DIFF	PCT DIFF		
TOTAL VEHICLE TRIPS	24,906,860	24,908,164	1,304	0.00		
TOTAL TRANSIT TRIPS	1,518,362	1,527,479	9,117	0.01		
VEHICLE MILES TRAVELED	182,831,773	182,789,481	-42,292	0.00		

	2030					
	2009 CLRP	AMENDMENTS	DIFF	PCT DIFF		
TOTAL VEHICLE TRIPS	27,287,108	27,288,108	1,000	0.00		
TOTAL TRANSIT TRIPS	1,651,950	1,664,694	12,744	0.01		
VEHICLE MILES TRAVELED	197,574,487	197,516,602	-57,885	0.00		

### **Emissions**

Using output from the travel demand forecasting process, emissions estimates were produced for ozone season pollutants (VOC and NOx) and fine particles pollutants (direct PM <sub>2.5</sub> and precursor NOx). As expected, emissions generally stayed the same or decreased with the amendments relative to the 2009 CLRP.

### **CONFORMITY ASSESSMENT CRITERIA**

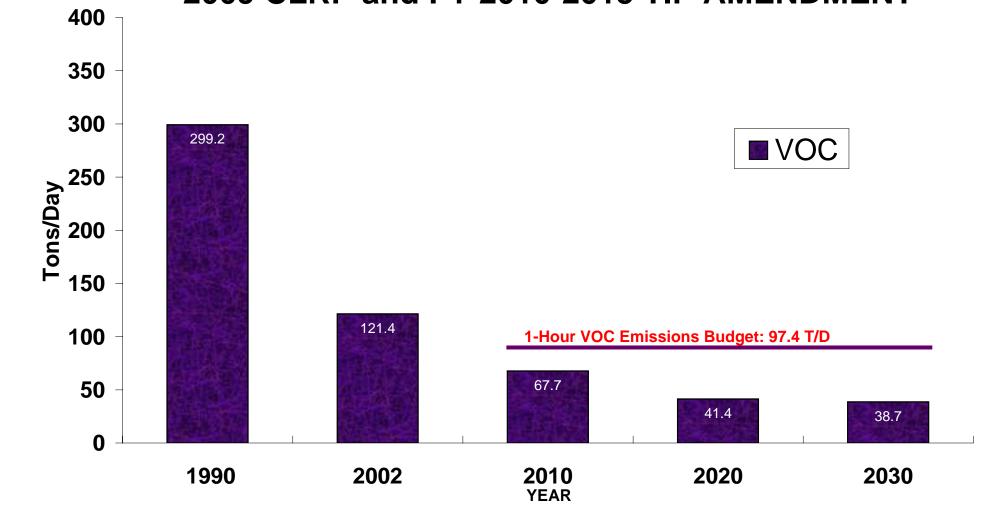
Each pollutant is assessed based on specific criteria. Ozone season pollutants must adhere to EPA-approved mobile emissions budgets. Fine particles pollutants must not be greater in forecast years than in the 2002 base. The bar charts on the following pages show the total estimated emissions for each analysis year, and the budget adherence line for each pollutant. Each chart shows that estimated emissions adhere to all requirements, i.e., are either within the mobile source emissions budgets for each pollutant (including the proposed 8-hour ozone SIP budgets and  $PM_{2.5}$  budgets awaiting EPA's approval actions), or meet emissions reduction requirements in the case of  $PM_{2.5}$  pollutants.

### **COMMENT / RESPONSE TO COMMENT**

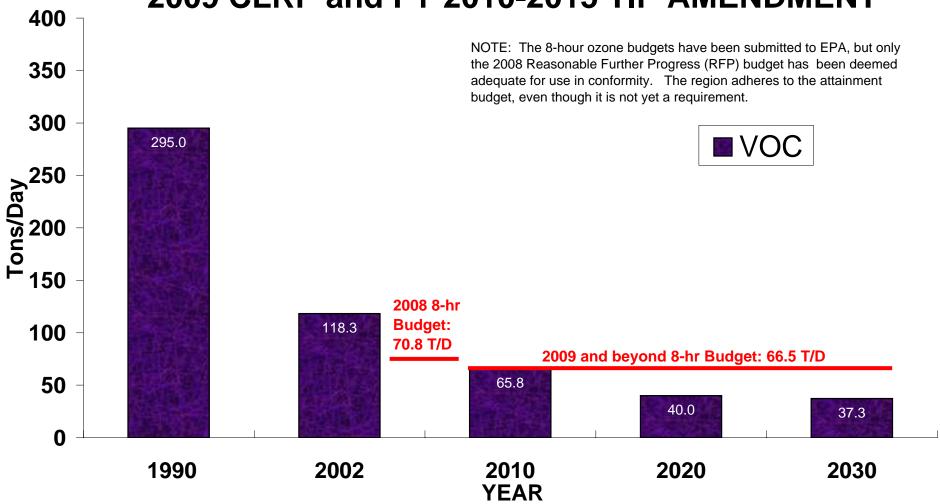
Comment: The Metropolitan Washington Air Quality Committee (MWAQC) provided written comment in its September 23, 2009 letter. Their letter notes that they are pleased that the proposed CLRP and TIP meet all mobile source emissions tests for conformity. They also are pleased that the analysis shows that the amendments will result in an overall increase in transit ridership and a decrease in Vehicle Miles Traveled. They caution that while substantial reductions in transportation emissions are expected by 2020 and beyond, that EPA's release of a new motor vehicle emission model "could substantially affect emission estimates in the region even if there are no changes in the transportation network". The Committee continues to urge state and local governments to maintain their commitments to TERMs and other emissions reduction measures.

<u>Response:</u> The TPB appreciates MWAQC's support and, similarly, endorses the maintenance of commitments to TERMs and other emissions reduction measures.

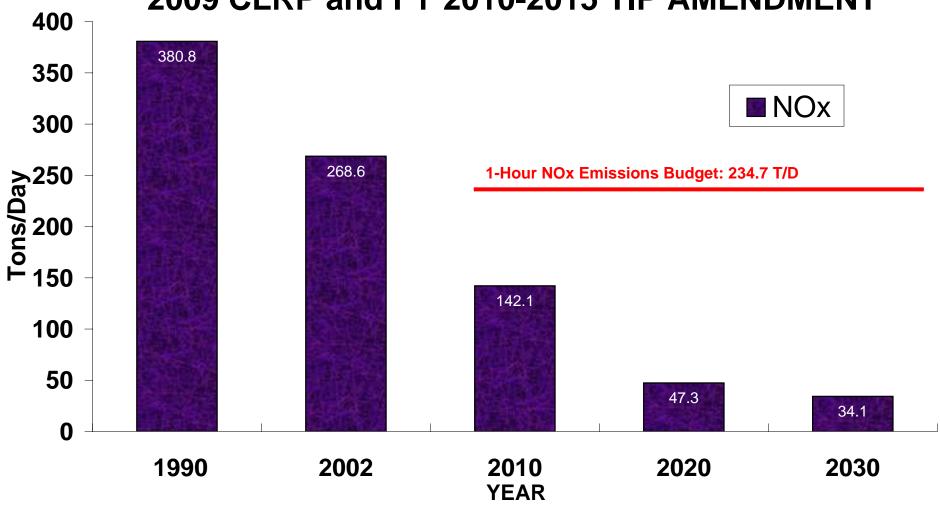
# EXHIBIT 4 Mobile Source VOC Emissions for the 1-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT



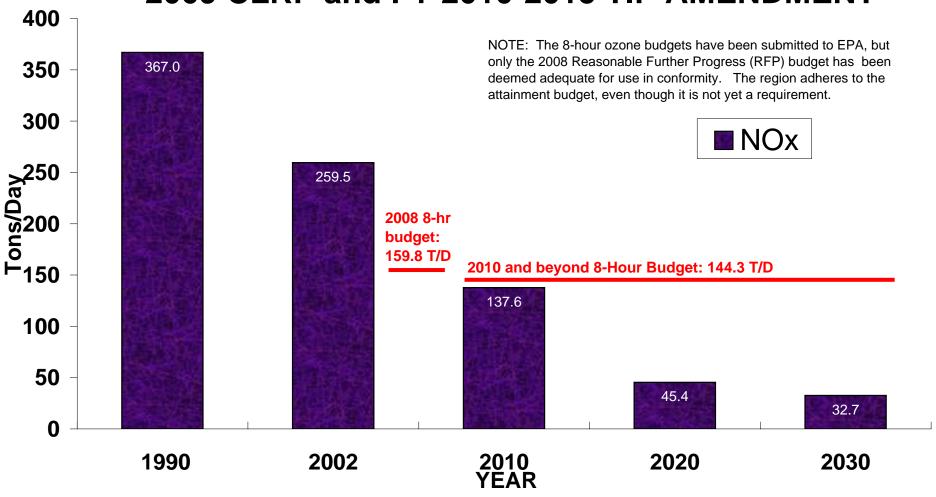
# EXHIBIT 5 Mobile Source VOC Emissions for the 8-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT



# EXHIBIT 6 Mobile Source NOx Emissions for the 1-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT

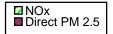


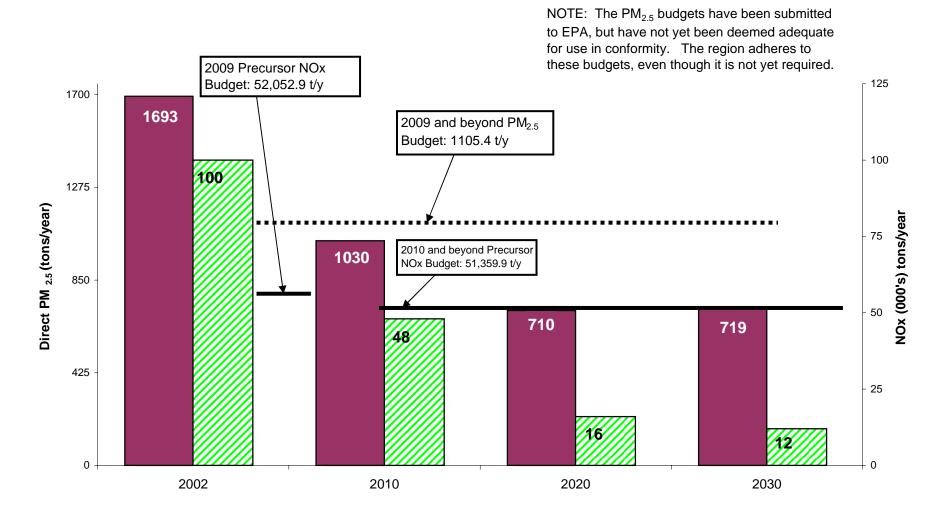
# EXHIBIT 7 Mobile Source NOx Emissions for the 8-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT



### **Exhibit 8**

### Mobile Source Emissions 2009 CLRP and FY 2010-2015 TIP Amendment PM<sub>2.5</sub> Direct and Precursor NOx





### **FINDINGS**

The analytical results described in this air quality assessment provide a basis for a determination by the TPB of conformity of the 2009 CLRP and the FY2010-2015 TIP as amended to include the addition of the Purple Line Light Rail and the downgrade of the MD 3 and MD28/MD198 projects to "study" status in Maryland, and the transportation components of the Return to L'Enfant development and the K St. Busway modifications in the District of Columbia.

# AIR QUALITY CONFORMITY ASSESSMENT MARYLAND DEPARTMENT OF TRANSPORTATION DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION AMENDMENTS TO THE 2009 CONSTRAINED LONG RANGE PLAN AND THE FY2010-2015 TRANSPORTATION IMPROVEMENT PROGRAM FOR THE WASHINGTON METROPOLITAN REGION

October 21, 2009

NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS

### EXECUTIVE SUMMARY

This report documents the air quality conformity assessment of the 2009 Constrained Long Range Plan (CLRP) and the FY2010-2015 Transportation Improvement Program (TIP) amendments to include the Purple Line Light Rail and the downgrade of two projects in the CLRP to "study" status in Maryland. The two projects are the widening of MD 3 from US 50 to the Anne Arundel County line, and the reconstruction of MD 28/MD 198 from MD 97 to I-95. Also included are the Return to L'Enfant development and K St. Busway modifications in the District of Columbia. This assessment was carried out under the regulations contained in the Environmental Protection Agency's final rule, published in the November 24, 1993 Federal Register, with subsequent amendments and additional federal guidance published by the Environmental Protection Agency (EPA) and by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). The process involved consultation with affected agencies such as the EPA, the FHWA, the FTA, and the Metropolitan Washington Air Quality Committee (MWAQC), as well as with the public. The assessment is a responsibility of the National Capital Region Transportation Planning Board.

The report includes a summary of the approach and technical methods, including explanations of updated land activity forecasts and project descriptions. Exhibits show travel demand outputs (trips, VMT, etc.) and regional emissions for ozone season and fine particles pollutants for each of the three forecast years analyzed. Conformity assessment criteria are defined.

The findings of the assessment provide a basis for a determination of conformity of the 2009 CLRP and the FY2010-2015 TIP as amended to include the addition of the Purple Line Light Rail in Maryland, and the Return to L'Enfant development and the K St. Busway modifications in the District of Columbia.

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### I. INTRODUCTION

The Maryland Department of Transportation (MDOT) and the District Department of Transportation (DDOT) requested amendments to the 2009 Constrained Long Range Plan (CLRP) and the FY2010-2015 Transportation Improvement Program (TIP). MDOT's amendment, described in Appendix A, includes the addition of the 16-mile Purple Line light rail between Bethesda and New Carrollton in Montgomery and Prince George's Counties and the downgrade of two projects in the CLRP to "study" status in Maryland. The two projects are the widening of MD 3 from US 50 to the Anne Arundel County line, and the reconstruction of MD 28/MD 198 from MD 97 to I-95. DDOT's amendment, described in Appendix B, includes the key transportation components of the "Return to L"Enfant" development, as well as a technical correction to modify the cross section of K St. NW to accommodate the K St. Busway project. The amendments affect the air quality conformity analysis, and therefore required a new demonstration of air quality conformity before they could be adopted as plan and program elements by the Transportation Planning Board (TPB). The Departments of Transportation requested that TPB staff perform the assessment, and the TPB approved the scope of work, included as Appendix C, at its June 17, 2009 meeting. This report describes the technical methods and results of the assessment. This report supplements the 2009 CLRP and FY2010-2015 air quality conformity report adopted by the TPB on July 15, 2009, and relies on the same technical methods and documentation contained therein.

### II. APPROACH

Staff designed the scope of work for the conformity assessment to address all current technical and consultation requirements. These included requirements contained in the air quality conformity regulations: (1) as originally published by the Environmental Protection Agency (EPA) in the November 24, 1993 Federal Register, and (2) as subsequently amended, most recently on January 24, 2008, and (3) as detailed in periodic FHWA / FTA and EPA guidance. These regulations specify both technical criteria and consultation procedures to follow in performing the assessment.

Per the conformity regulations, the analytical approach involves incorporating the proposed projects into the transportation networks for the plan and program (forecast years 2010, 2020 and 2030), performing travel demand and emissions analyses, and applying relevant evaluation criteria to assess conformity. The study effort utilizes the same travel demand model (TPB's Version 2.2 model), emissions factor model (EPA's Mobile6.2), and evaluation criteria as applied in the conformity assessment of the 2009 CLRP and the FY2010-2015 TIP, which was approved by the TPB on July 15, 2009. However the land activity assumptions were updated

(Round 7.2A) to reflect refinements associated with the projects. TPB's consultation procedures were applied to solicit public comment and interagency consultation on the analysis.

### III. TECHNICAL METHODS

### A. Land Activity Forecasts

With the addition of the Purple Line and the Return to L'Enfant amendments to the CLRP, COG staff asked local jurisdictions to review their land activity data and consider the potential impacts of the projects on the Round 7.2 Cooperative Forecasts. Montgomery County, Prince George's County, and the District of Columbia all made revisions to their data. The resulting Cooperative Forecasts are Round 7.2A. The Metropolitan Development Policy Committee (MDPC) approved the Round 7.2A Cooperative Forecasts at their July, 2009 meeting for use in the air quality conformity analysis. Correspondence relating to the updated land activity forecasts is included as Appendix D.

### **B.** Network Development

The first step in the preparation of the travel forecasts was to update the 2009 CLRP networks to include the projects. 2010, 2020, and 2030 highway networks were prepared. Highway and transit network development files were modified to reflect the updates identified in Appendices A and B.

### C. Travel Modeling Process

Using the same analytical approach as in the Spring, 2009 analysis, but with updated networks and land use, travel demand forecasting procedures were executed. Exhibit 1 graphically defines the geographical analysis areas of the travel demand model (modeled area), the 1-hour ozone nonoattainment area (1983 Metropolitan Statistical Area), the 8-hour ozone nonattainment area, the PM<sub>2.5</sub> nonattainment are, and the wintertime CO nonattainment area. Exhibits 2 and 3 present Round 7.2A household data and employment data for each of the year in the conformity assessment. Exhibits 4A and 4B summarize work travel and daily travel for the modeled area as output by the mode choice model. Exhibit 5 presents average annual weekday vehicle trips and vehicle miles traveled.

### D. Emissions

Using the same emissions factors developed in prior conformity analysis, staff

executed the mobile source emissions calculations process to estimate required emissions for each milestone analysis year. This includes the estimation of emissions for the 2010, 2020 and 2030 analysis years. Exhibits 6 through 11 present these emissions for each milestone year. Exhibits 6A and 6B summarize ozone season VOC and NOx emissions for the 1-hour and 8-hour areas respectively. Exhibits 7 and 8 summarize direct  $PM_{2.5}$  and precursor NOx pollutant emissions. Exhibits 9-11 show data for these same pollutants in a bar chart format to provide a graphic representation of emissions relative to the budget for that pollutant.

### IV. CONFORMITY ASSESSMENT CRITERIA

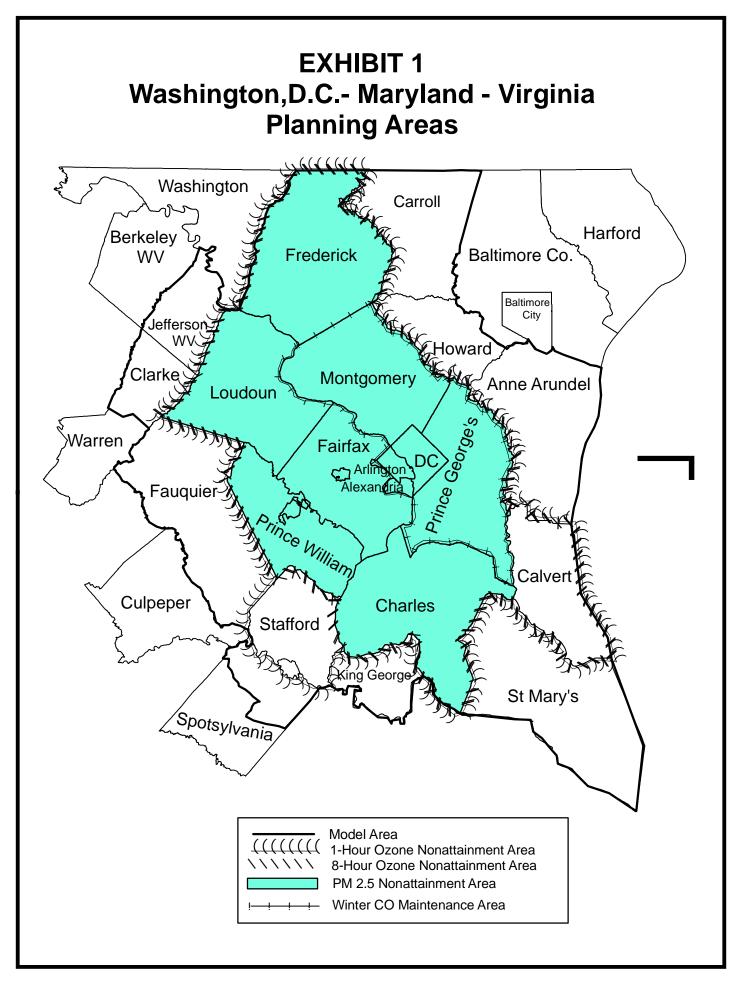
Each pollutant is assessed based on specific criteria. Ozone season pollutants must adhere to EPA-approved totals from the Metropolitan Washington Air Quality Committee's (MWAQC's) February, 2004 'severe area' (1-hour ozone)

State Implementation Plan (SIP). These budgets received federal approval in Spring, 2005. Ozone season pollutants also must adhere to the recently approved 8-hour ozone 2008 Reasonable Further Progress (RFP) motor vehicle budgets which EPA found adequate on July 29, 2009. The conformity analysis also addressed the additional emissions budgets (2009 VOC and NOx and 2010 NOx) contained in the 8-hour ozone SIP, as well as budgets in the PM<sub>2.5</sub> SIP, which await EPA's signoff. Where there are no approved mobile budgets for PM<sub>2.5</sub> pollutants, EPA allows for an assessment that shows emissions in "action" scenarios are no greater than those in a 2002 base. This criterion was established and applied, with the concurrence of MWAQC, in all PM<sub>2.5</sub> conformity assessments done to date.

The exhibits show that estimated emissions adhere to all requirements, i.e., are either within the mobile source emissions budgets for each pollutant (including the proposed 8-hour ozone SIP budgets and PM<sub>2.5</sub> budgets awaiting EPA's approval actions), or meet emissions reduction requirements in the case of PM<sub>2.5</sub> pollutants.

### V. FINDINGS

The analytical results described in this air quality assessment provide a basis for a determination by the TPB of conformity of the 2009 CLRP and the FY2010-2015 TIP as amended to include the addition of the Purple Line Light Rail and the downgrade of the MD 3 and MD28/MD 198 projects to "study" status in Maryland, and the transportation components of the Return to L'Enfant development and the K St. Busway modifications in the District of Columbia.



### EXHIBIT 2 HOUSEHOLD DATA

MSA:	2010	2020	2030
D.C.	275963	313063	335196
MONTGOMERY	362768	408769	441230
PR.GEORGES	317113	344020	367004
ARLINGTON	99886	116059	120863
ALEXANDRIA	70434	77234	86110
FAIRFAX	402024	444927	479299
LOUDOUN	101667	133828	155939
PR.WILLIAM	157610	189677	214227
FREDERICK	87708	104139	123125
CHARLES	50951	64302	75850
STAFFORD	41384	58997	72662
CALVERT	32049	36026	38349
SUBTOTAL	1,999,557	2,291,041	2,509,854
SUBTOTAL ADDITIONAL COUNTIES:	1,999,557	2,291,041	2,509,854
	<b>1,999,557</b> 109550	<b>2,291,041</b> 125466	<b>2,509,854</b> 132965
ADDITIONAL COUNTIES:			
ADDITIONAL COUNTIES: HOWARD	109550	125466	132965
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL	109550 202359	125466 218039	132965 229513
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL	109550 202359 63495	125466 218039 71163	132965 229513 77401
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA)	109550 202359 63495 10003	125466 218039 71163 12453	132965 229513 77401 13955
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON	109550 202359 63495 10003 20427	125466 218039 71163 12453 25957	132965 229513 77401 13955 33075
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA	109550 202359 63495 10003 20427 34702	125466 218039 71163 12453 25957 48484	132965 229513 77401 13955 33075 58733
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA FAUQUIER	109550 202359 63495 10003 20427 34702 26872	125466 218039 71163 12453 25957 48484 35729	132965 229513 77401 13955 33075 58733 47506
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA FAUQUIER CLARKE	109550 202359 63495 10003 20427 34702 26872 6142	125466 218039 71163 12453 25957 48484 35729 6860	132965 229513 77401 13955 33075 58733 47506 7770
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA FAUQUIER CLARKE K.GEORGE	109550 202359 63495 10003 20427 34702 26872 6142 8392	125466 218039 71163 12453 25957 48484 35729 6860 11395	132965 229513 77401 13955 33075 58733 47506 7770 14005

### SOURCE:

MWCOG Revised Round 7.2A Cooperative Forecasts BMC Round 7 Cooperative Forecasts

### **EXHIBIT 3 EMPLOYMENT DATA**

MSA:	2010	2020	2030
D.C.	788162	860915	922419
MONTGOMERY	510600	590675	673725
PR.GEORGES	362286	398536	454207
ARLINGTON	214501	259600	271715
ALEXANDRIA	109109	136032	156831
FAIRFAX	700872	800470	870584
LOUDOUN	158819	227459	275196
PR.WILLIAM	152264	197682	243725
FREDERICK	142412	158278	167257
CHARLES	62239	71749	77550
STAFFORD	43197	55065	65638
CALVERT	35157	44438	47137
SUBTOTAL	3,279,618	3,800,899	4,225,984
ADDITIONAL COUNTIES:	3,279,618	3,800,899	4,225,984
	<b>3,279,618</b> 165822	<b>3,800,899</b> 195195	<b>4,225,984</b> 219747
ADDITIONAL COUNTIES:			
ADDITIONAL COUNTIES: HOWARD	165822	195195	219747
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL	165822 291592	195195 342525	219747 379142
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL	165822 291592 67603	195195 342525 70821	219747 379142 72451
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA)	165822 291592 67603 29430	195195 342525 70821 35467	219747 379142 72451 41767
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON	165822 291592 67603 29430 21058	195195 342525 70821 35467 26113	219747 379142 72451 41767 30674
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA	165822 291592 67603 29430 21058 35362	195195 342525 70821 35467 26113 46607	219747 379142 72451 41767 30674 55567
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA FAUQUIER	165822 291592 67603 29430 21058 35362 27325	195195 342525 70821 35467 26113 46607 35767	219747 379142 72451 41767 30674 55567 43367
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA FAUQUIER CLARKE	165822 291592 67603 29430 21058 35362 27325 6793	195195 342525 70821 35467 26113 46607 35767 7685	219747 379142 72451 41767 30674 55567 43367 8552
ADDITIONAL COUNTIES: HOWARD ANNE ARUNDEL CARROLL FREDERICKSBURG (VA) JEFFERSON N. SPOTSYLVANIA FAUQUIER CLARKE K.GEORGE	165822 291592 67603 29430 21058 35362 27325 6793 9032	195195 342525 70821 35467 26113 46607 35767 7685 13118	219747 379142 72451 41767 30674 55567 43367 8552 16343

### SOURCE:

MWCOG Revised Round 7.2A Cooperative Forecasts BMC Round 7 Cooperative Forecasts

NOTE: Includes Census Adjustment

### **EXHIBIT 4A**

### 2009 CLRP AND FY2010-2015 TIP AMENDMENT AIR QUALITY CONFORMITY DAILY REGIONAL HOME BASED WORK PURPOSE MODE ANALYSIS BY YEAR (Based on Mode Choice Output- 6th Iteration)

	MOTORIZED	TOTAL HBW	HBW LOV	HBW HOV	TOTAL HBW	HBW	HBW	HBW TRANSIT
YEAR	PERSON	AUTO PSN	AUTO DRV	AUTO DRV	AUTO DRV	CAROCC	TRANSIT	(%)
2010	4,749,592	4,107,246	3,628,433	31,394	3,659,827	1.120	642,346	13.50%
2020	5,414,462	4,618,020	4,045,453	40,319	4,085,772	1.130	796,442	14.70%
2030	5,930,147	5,066,329	4,430,242	47,540	4,477,782	1.130	863,818	14.60%

### **EXHIBIT 4B**

### 2009 CLRP AND FY2010-2015 TIP AMENDMENT AIR QUALITY CONFORMITY DAILY REGIONAL ANALYSIS BY YEAR FOR ALL TRIP PURPOSES (Based on Mode Choice Output- 6th Iteration)

	MOTORIZED	TOTAL	LOV	HOV	TOTAL	TOTAL	TOTAL	TRANSIT
YEAR	PERSON	AUTO PSN	AUTO DRV	AUTO DRV	AUTO DRV	CAROCC	TRANSIT	(%)
2010	25,751,254	24,589,108	19,422,411	31,394	19,453,805	1.260	1,162,146	4.50%
2020	29,118,655	27,591,176	21,831,833	40,319	21,872,152	1.260	1,527,479	5.20%
2030	31,779,252	30,114,558	23,891,314	47,540	23,938,853	1.260	1,664,694	5.20%

<sup>\*</sup>Note: Starting in 2020, all HOV facilities are HOV3+.

### **EXHIBIT 5**

### 2009 CLRP / FY2010-2015 TIP AMENDMENT AIR QUALITY CONFORMITY MODELED AREA TRIPS AND VEHICLE MILES TRAVELED (000's) AVERAGE WEEKDAY TRAFFIC (AWDT) (Based on Final Iteration)

	WORK AND	TRUCKS	MISC + THRU	COMMERCIAL	TOTAL	TOTAL
YEAR	NON-WORK AUTO DRV	(Med + Hvy)	TRIPS	VEHICLES	VEH. TRIPS	VMT
2010	19,454,441	532,235	842,547	1,264,140	22,093,363	160,911,318
2020	21,872,884	618,515	971,960	1,444,805	24,908,164	182,789,481
2030	23,939,474	688,504	1,076,606	1,583,524	27,288,108	197,516,602

### **Adjustment Factors to Convert AAWDT to Appropriate Season:**

**Ozone Season AWDT: 1.05** 

Winter Season AWDT: 0.97

### PM<sub>2.5</sub> Annual:

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

NOTE: AWDT reflects a five day average ADT reflects a seven day average

**EXHIBIT 6 A** 9/02/09

### 2009 CLRP and FY 2010-2015 TIP Amendment Summary Table - 1-Hour Ozone Nonattainment Area Mobile Source Emissions Inventories AIR QUALITY CONFORMITY

(Tons/Day)

	20	02	20	10	20	20	20	30
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
I Network								
Start	25.5	12.9	11.4	6.7	7.0	2.9	6.5	2.3
Running	58.9	230.9	30.5	120.2	20.4	39.0	20.8	28.8
Soak	11.6		9.9		5.6		4.5	
II Off-Network								
Diurnal	2.4		1.8		1.0		0.7	
Resting Loss	12.3		8.5		3.8		2.5	
Local Roads	8.9	10.6	4.5	6.0	2.9	2.4	3.0	2.0
School Buses	0.4	6.1	0.4	4.5	0.2	1.7	0.2	0.5
Transit Buses	0.4	6.6	0.2	4.2	0.1	1.0	0.1	0.4
Auto Access	1.3	1.5	0.8	1.0	0.5	0.5	0.5	0.4
Total	121.8	268.7	67.8	142.6	41.5	47.5	38.8	34.4
TCMs Net Emissions	-0.4 121.4	-0.1 268.6	-0.2 67.7	-0.4 142.1	-0.1 41.4	-0.3 47.3	-0.1 38.7	-0.3 34.1
Mobile Emissions Budgets:			97.4	234.7	97.4	234.7	97.4	234.7
Budget Adherence Margin:			29.7	92.6	56.0	187.4	58.7	200.6

### **EXHIBIT 6 B**

### 2009 CLRP and FY 2010-2015 TIP Amendment Summary Table - 8-Hour Ozone Nonattainment Area Mobile Source Emissions Inventories AIR QUALITY CONFORMITY

(Tons/Day)

	200	02	20	10	20	20	20	30
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
I Network								
Start	25.0	12.7	11.2	6.6	6.8	2.9	6.3	2.2
Running	57.2	222.6	29.6	116.1	19.7	37.4	20.0	27.5
Soak	11.3		9.6		5.4		4.3	
II Off-Network								
Diurnal	2.4		1.7		0.9		0.6	
Resting Loss	11.9		8.2		3.7		2.4	
Local Roads	8.7	10.4	4.4	5.9	2.9	2.3	2.9	2.0
School Buses	0.4	6.0	0.3	4.4	0.2	1.7	0.2	0.5
Transit Buses	0.4	6.5	0.2	4.1	0.1	1.0	0.1	0.4
Auto Access	1.3	1.5	0.8	0.9	0.5	0.4	0.5	0.4
Total	118.6	259.6	65.9	138.1	40.2	45.7	37.4	32.9
TCMs	-0.4	-0.1	-0.2	-0.4	-0.1	-0.3	-0.1	-0.3
Net Emissions	118.2	259.5	65.8	137.6	40.0	45.4	37.3	32.7
Mobile Emissions Budgets:			66.5	144.3	66.5	144.3	66.5	144.3
Budget Adherence Margin:			0.7	6.7	26.5	98.9	29.2	111.6

### EXHIBIT 7 2009 CLRP and FY 2010-2015 TIP Amendment

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

Mobile Source Emissions Inventories Air Quality Conformity Summary Table (Tons)

R			20	)10	20	20	20	)30
₽Ā		Days	Daily	seasonal	Daily	seasonal	Daily	seasonal
Ż	Major Roads	120	2.5	294.0	1.7	206.9	1.7	209.8
₹	Local Roads	120	0.1	16.3	0.1	15.6	0.1	16.6
1 (	School Buses	76	0.3	20.2	0.0	2.2	0.0	1.3
Z	Transit Buses	120	0.1	10.2	0.0	1.6	0.0	1.2
SO	Auto Access	83	0.0	0.9	0.0	1.2	0.0	1.3
∥ ∢	Total (Daily)		2.9		1.9		1.9	
SE	SEASON TOTAL			341.6		227.4		230.1

Р)								
ш			20	)10	20	)20	20	)30
(-S		Days	Daily	seasonal	Daily	seasonal	Daily	seasonal
A	Major Roads	153	2.5	389.5	1.8	281.7	1.9	286.1
(MA	Local Roads	153	0.1	22.3	0.1	21.6	0.1	22.8
7	School Buses	83	0.2	20.2	0.0	2.3	0.0	1.4
O	Transit Buses	153	0.1	12.1	0.0	2.0	0.0	1.5
SC	Auto Access	107	0.0	1.2	0.0	1.6	0.0	1.8
EA:	Total (Daily)		3.0		2.0		2.1	
	SEASON TOTAL			445.3		309.1		313.5

$\widehat{\mathfrak{O}}$								
<b>■</b>			20	)10	20	)20	20	)30
P		Days	Daily	seasonal	Daily	seasonal	Daily	seasonal
5	Major Roads	92	2.3	211.0	1.7	158.1	1.7	160.0
l Ö	Local Roads	92	0.1	12.2	0.1	12.1	0.1	12.7
<u>ب</u>	School Buses	55	0.2	12.5	0.0	1.5	0.0	0.7
Z	Transit Buses	92	0.1	7.0	0.0	1.2	0.0	0.8
SO	Auto Access	61	0.0	0.6	0.0	0.9	0.0	0.9
■ <	Total (Daily)		2.7		1.9		1.9	
SE	SEASON TOTAL			243.4		173.7		175.2

ANNUAL				
TOTAL		1030.3	710.1	718.8

Mobile Emissions Budgets: 1105.4

Budget Adherence Margin: 75.1

### EXHIBIT 8 2009 CLRP and FY 2010-2015 TIP Amendment

PM<sub>2.5</sub> Precursor Emissions: NOx Mobile Source Emissions Inventories Air Quality Conformity Summary Table (Tons)

8								
4			2	2010	2	2020	2030	
<u>₹</u>		Days	Daily	seasonal	Daily	seasonal	Daily	seasonal
¥	Major Roads-Starts	120	10.1	1214.0	4.2	499.9	3.2	382.2
	Major Roads-VMT	120	122.2	14659.3	38.6	4627.7	28.3	3391.3
_	Local Roads	120	6.4	770.4	2.3	279.6	1.9	232.6
N N	School Buses	76	3.9	294.6	1.5	111.3	0.4	31.2
S	Transit Buses	120	4.1	488.3	1.0	121.8	0.3	41.0
₩	Auto Access	83	1.2	97.6	0.3	27.8	0.3	24.7
S	Total (Daily)		147.8		47.9		34.4	
	SEASON 1 TOTAL			17524.2		5668.1		4103.0

<u>P</u>								
SE			2	010		2020	2030	
<b>'</b>		Days	Daily	seasonal	Daily	seasonal	Daily	seasonal
(MA)	Major Roads-Starts	153	7.2	1103.0	3.1	468.6	2.4	365.8
≥	Major Roads-VMT	153	107.8	16490.6	34.5	5274.1	25.2	3858.7
2	Local Roads	153	5.3	806.2	2.0	309.8	1.7	263.6
SON	School Buses	83	3.6	295.2	1.4	112.5	0.4	32.7
S	Transit Buses	153	3.8	581.4	1.0	145.4	0.3	51.3
EA	Auto Access	107	0.9	94.5	0.3	28.7	0.2	26.2
S	Total (Daily)		128.5		42.1		30.3	
	SEASON 2 TOTAL			19370.8		6339.1		4598.3

ပ်								
ШŬ			2	010		2020	2	2030
₹		Days	Daily	seasonal	Daily	seasonal	Daily	seasonal
ြွ	Major Roads-Starts	92	8.8	807.4	3.8	349.5	3.0	276.4
9	Major Roads-VMT	92	104.2	9585.0	35.3	3244.7	26.9	2476.7
က	Local Roads	92	5.5	503.0	2.1	196.7	1.9	170.3
8	School Buses	55	3.5	193.2	1.3	72.1	0.3	17.0
S	Transit Buses	92	3.7	337.7	0.8	77.4	0.3	27.0
E	Auto Access	61	1.0	60.9	0.3	18.9	0.3	17.5
S	Total (Daily)		126.6		43.7		32.7	
	SEASON 3 TOTAL			11487.2		3959.4		2984.9

	40202.2		45000.0		44606.0
1	48382.2		15966.6		11686.2
		48382.2	48382.2	48382.2 15966.6	48382.2 15966.6

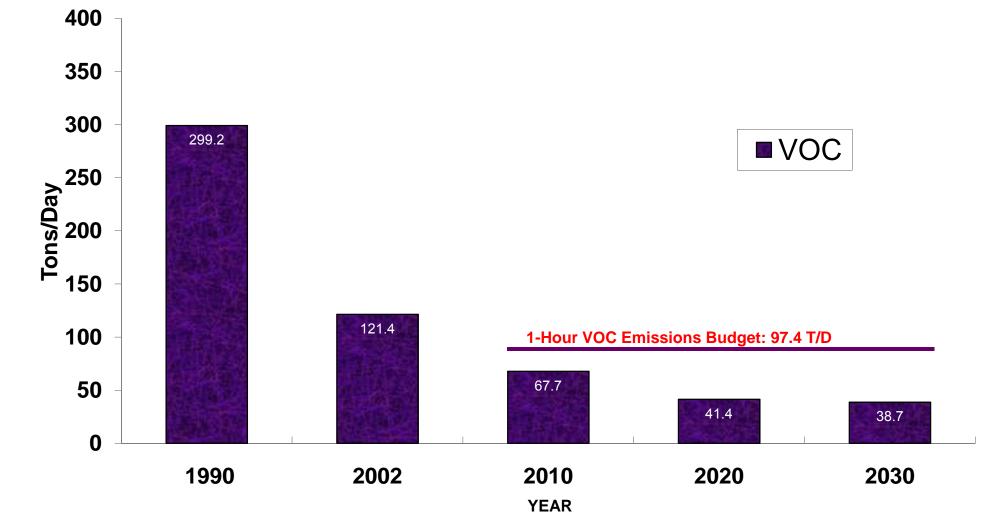
Mobile Emissions Budget:

51359.9

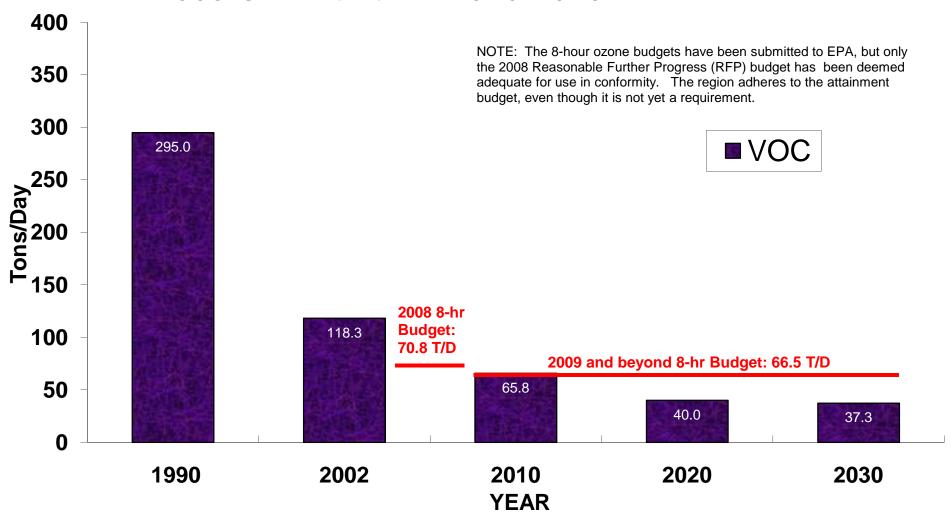
Budget Adherence Margin:

2977.7

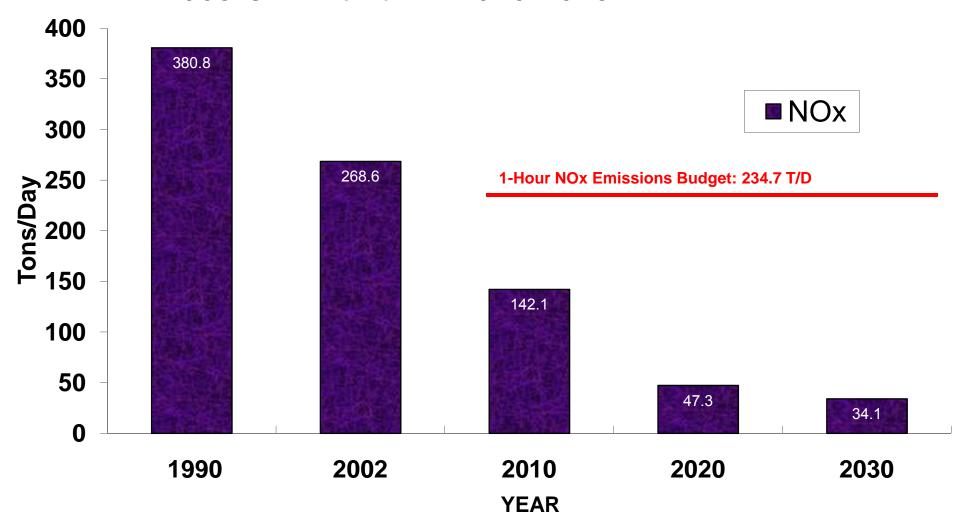
## EXHIBIT 9A Mobile Source VOC Emissions for the 1-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT



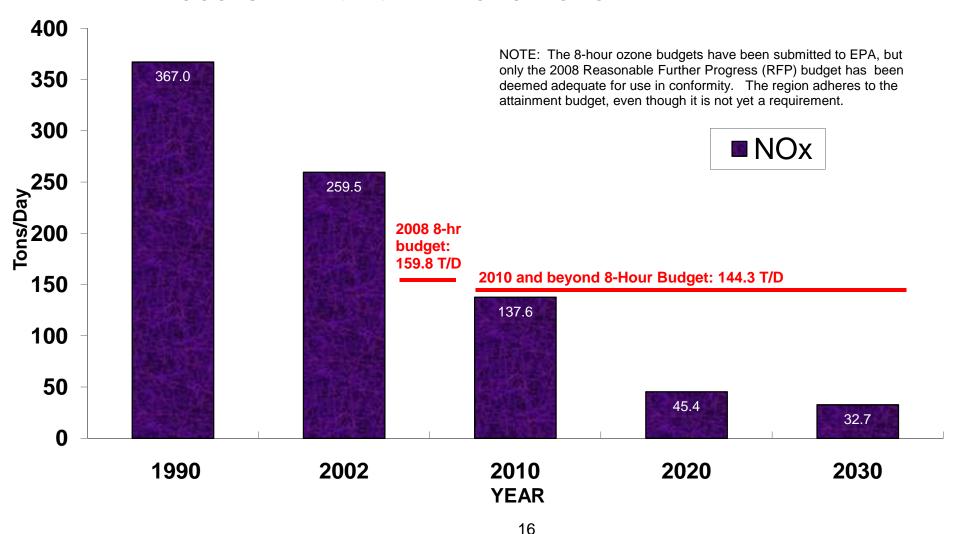
# EXHIBIT 9B Mobile Source VOC Emissions for the 8-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT



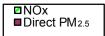
# EXHIBIT 10A Mobile Source NOx Emissions for the 1-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT

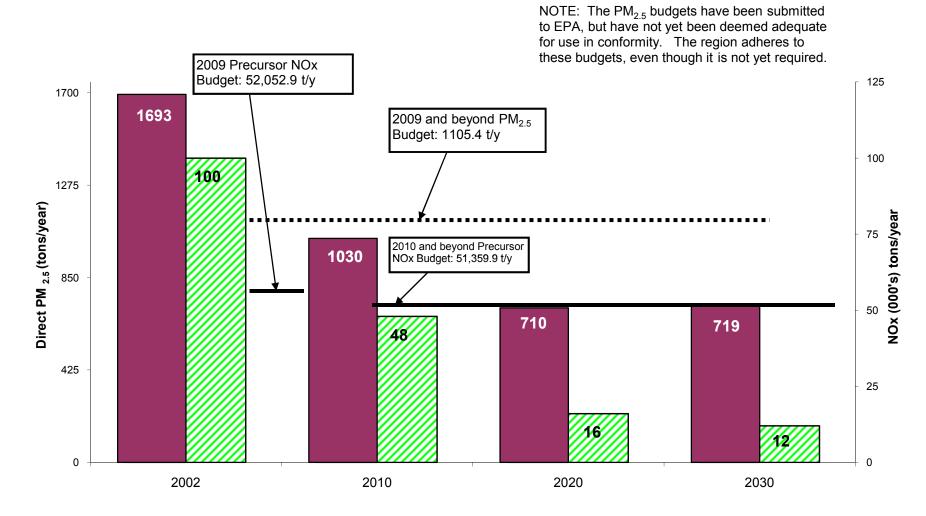


# EXHIBIT 10B Mobile Source NOx Emissions for the 8-Hour Ozone Nonattainment Area 2009 CLRP and FY 2010-2015 TIP AMENDMENT



### Exhibit 11 Mobile Source Emissions 2009 CLRP and FY 2010-2015 TIP Amendment PM<sub>2.5</sub> Direct and Precursor NOx





# **APPENDIX A**

**MDOT's Amendment** 



May 14, 2009

Martin O'Malley Governor

Anthony G. Brown Lt. Governor

John D. Porcari Secretary

Beverley K. Swaim-Staley Deputy Secretary

The Honorable Charles A. Jenkins, Chairman National Capital Region Transportation Planning Board Metropolitan Washington Council of Governments 777 North Capitol Street, N.E. – Suite300 Washington DC 20002

#### Dear Chairman Jenkins:

As you are aware, the Maryland Department of Transportation (MDOT) has requested that the amendment process be initiated to include the Purple Line Transit Project in the FY 2009 Constrained Long Range Plan (CLRP). The Purple Line is a future 16-mile transitway between New Carrollton and Bethesda Metrorail Stations. Please refer to our letter dated April 23 describing the project and the amendment in detail.

This letter is to inform you that we are revising our amendment request, and to provide details on the financial analysis that makes this amendment possible. There has been one change to the amendment request as it relates to the Purple Line project. The project costs that were provided are shown in 2009 "constant dollars," and federal rules require that costs be considered in "year of expenditure dollars." This requirement means an inflation rate must be applied to the project cost, which will increase it to an amount higher than previously indicated. We applied an average inflation rate of 2.8%. For the purposes of the fiscal constraint analysis, the cost of the project is now \$1.68 billion. Please see the attached revised CLRP Form, which reflects this cost.

Even with these higher costs, we wish to continue our request to amend the Purple Line into the CLRP. As you know, federal regulations mandate that the CLRP be fiscally constrained and that the funding sources for projects must be "reasonably expected to be available." To accommodate these requirements, MDOT would like to include the additional revenue expected to be received from legislation enacted by the Maryland General Assembly in the Fall 2007 and revise the original amendment request to include the removal of two projects within 2009 CLRP. The two projects to be removed from the CLRP are the MD 28/MD 198 and the MD 3 Highway Projects. They will be downgraded to the Illustrative List as a "Study."

The current CLRP is operating under the "Analysis of Resources for the 2006 Financially Constrained Long-Range Transportation Plan for the Washington Region" (CLRP Financial Plan). Since approval of the 2006 CLRP Financial Plan, the State of Maryland legislatively enacted a revenue increase to the Transportation Trust Fund (TTF) during the 2007 Special

My telephone number is

Toll Free Number 1-888-713-1414, TTY Users Call Via MD Relay
7201 Corporate Center Drive, Hanover, Maryland 21076

The Honorable Charles A. Jenkins Page Two

Session. This legislative action increased the State's sales tax and vehicle titling tax. A portion of the sales tax and all of the titling tax is dedicated to the TTF to support the operating programs and capital projects of the Department.

Because of the methodology used in its development, the projections provided for the 2006 CLRP Financial Plan would not ordinarily be revised. MDOT develops its projections based on the underlying trends of its historical sources of funds. These trends include normal growth caused by increased volume, population and inflation, as well as, prior periodic revenue increases. By using this data to project future funding, the impact of future periodic increases is automatically built into the revenue projections. However, as we learned from a recent exercise done for the Baltimore Regional Transportation Board (BRTB), the revenue increase from the 2007 Special Session was larger than the trend analysis projected.

The BRTB requested an analysis on the impact the 2007 General Assembly Revenue Increase had on their CLRP forecast. Focusing on just the change in State dollars, the analysis showed that additional funding would be available sooner than anticipated. Starting in fiscal 2012, the additional funds available statewide would be split between system preservation and expansion, allotted between surface and non-surface transportation, and then allocated by region using the same factors as the original 2006 update. On February 24, 2009, the BRTB approved an amendment to their CLRP to include the 2007 Revenue Increase and add projects to their Plan.

This recently approved statewide analysis was used as the basis to determine the Washington Region's portion of the revenue increase. As detailed in the attachment, this analysis shows that nearly \$500 million in additional state funding can be available through 2030 from the Maryland Transportation Trust Fund. Consistent with the 2006 CLRP Financial Plan, MDOT assumes that 50 percent of the funding for major transit projects will be Federal New Starts Funding. Applying the same assumption to the Revenue Increase funding, MDOT has determined there is an additional \$1 billion of funding that can reasonably be expected to be available (\$500 million in state dollars and \$500 million in New Starts dollars) for the Purple Line project.

In the 2006 CLRP Financial Plan, on Page 5, Table 2, MDOT identified \$419 million for the Purple Line. MDOT also identified \$61 million as a placeholder for future New Starts projects. In combination, this means that the 2006 CLRP Financial Plan has already identified \$480 million dollars available for the project (\$240 million in state dollars, and \$240 million in New Starts dollars).

As mentioned above, MDOT is requesting that the MD 28/MD 198 construction project and the MD 3 construction project be removed from the CLRP and the associated funding be applied to the Purple Line project. The attached CLRP forms demonstrate that we are proposing to remove \$324 million from these the MD 28/MD 198 project, and \$212 million from the MD 3 project.

The Honorable Charles A. Jenkins Page Three

As previously stated, the cost of the Purple Line project is \$1.68 billion. New state funding provided by the Revenue Increase, combined with the project placeholders already in the 2006 CLRP Financial Plan, and the removal of the highway projects, will enable us to add the full cost of the Purple Line project into the CLRP. MDOT is confident this analysis demonstrates that the amended 2009 CLRP is fiscally constrained.

We would like to thank both Montgomery County and Prince George's County for their cooperation in support of the Purple Line project, as well as, supporting our decision to change the status of these two highway projects in the current CLRP. MDOT does anticipate that these projects will be able to be restored with the 2010 CLRP update next year and this action will be our first priority.

We appreciate your cooperation in this matter. If you have any questions or concerns, please do not hesitate to contact Ms. Lyn Erickson at 410-865-1279, toll-free at 888-713-1414 or via email at lerickson@mdot.state.md.us. Of course, please feel free to contact me directly.

Sincerely,

Donald A. Halligan, Director

m 40g

Office of Planning and Capital Programming

#### Attachments

cc:

Ms. Lyn Erickson, Manager, Regional Planning, Office of Planning and Capital Programming, Maryland Department of Transportation

Mr. Ronald Kirby, Director, Department of Transportation Planning, Metropolitan Washington Council of Governments

Ms. Heather Murphy, Deputy Director, Office of Planning and Capital Programming, Maryland Department of Transportation

Mr. Michael Nixon, MPO Manager, Regional Planning, Office of Planning and Capital Programming, Maryland Department of Transportation

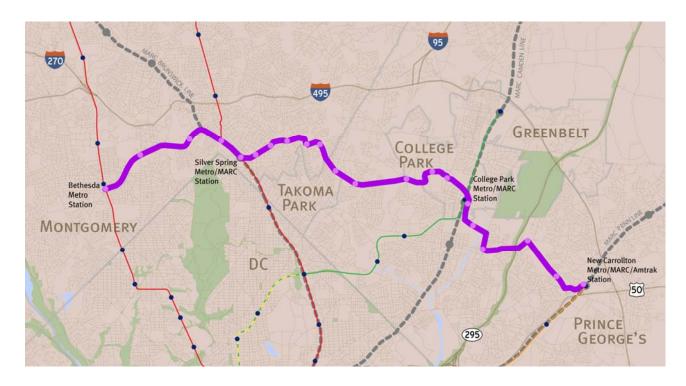
Ms. Diane Ratcliff, Director, Office of Planning, Maryland Transit Administration

Mr. Greg Slater, Maryland, Director, Office of Planning and Preliminary Engineering, State Highway Administration

# Proposed for Amendment to the 2009 Update to the Constrained Long-Range Transportation Plan (CLRP)



#### **Purple Line from Bethesda to New Carrolton**



Design, construct and operate a light rail system in Montgomery and Prince George's Counties between Bethesda and New Carrolton. The 16-mile long facility features 21 stations and will connect to Metro stations on the Red Line (Bethesda, Silver Spring), the Green Line (College Park) and Orange Line (New Carrolton), as well as MARC and Amtrak rail stations.

Length: 16 miles Complete: 2018

Cost: \$1.685 billion

Source: Federal and state funding



## Purple Line Connections Legend

O MARC Station Purple Line - Bethesda to New Carrollton

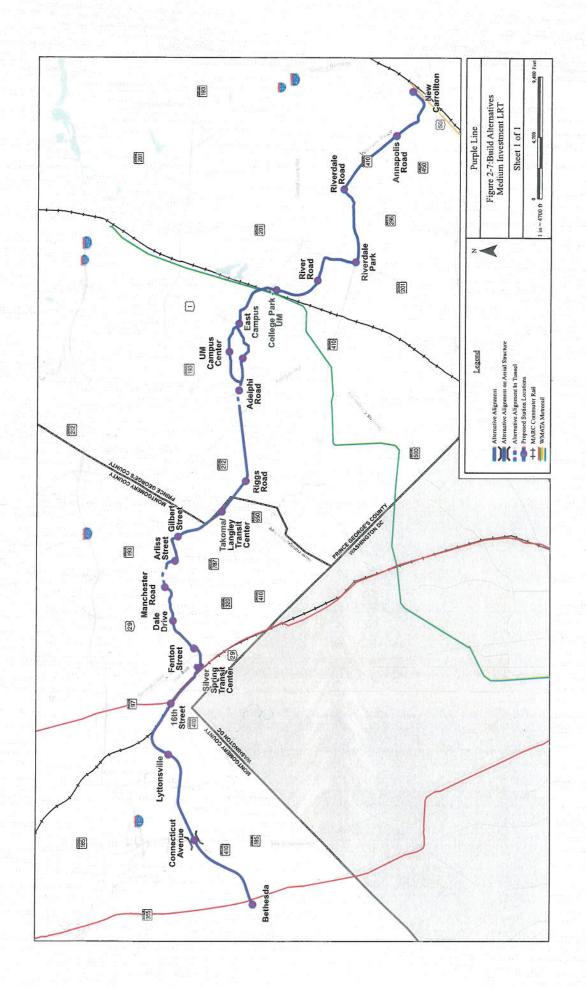
Red Line - Glenmont to Shady Grove

Orange Line - New Carrollton to Vienna/Fairfax-GMA Blue Line - Franconia-Springfield to Largo Town Center

Green Line - Branch Avenue to Greenbelt

Yellow Line - Huntington to Mt. Vernon Sq./7th St.-Convention Center





#### CONSTRAINED LONG RANGE PLAN (CLRP)

Proposed Project or Action Description Form

1. Location and Jurisdiction:

2. Submitting Agency:

MDOT/Mary land Transit

Administration

Last Modified On:

5/13/2009

Date of Completion or Implementation:

2017

Facility: From/At:

Bethesda

To:

**New Carrollton** 

Jurisdiction: Montgomery County, Prince George's

County

3. Project Type and Description:

#### Transit

Description of project or action:

Preparation of Alternatives Analysis, Draft Environmental Impact Statement (DEIS) and Preliminary Engineering/Final Environmental Impact Assessment (FEIS) and New Starts Application. Construct the proposed Purple Line which will provide high-capacity transit along a 16-mile corridor that extends from Bethesda to the New Carrollton with connections to the Metrorail Red Line, Green Line and Orange Line as well as all three MARC lines, AMTRAK and regional and local bus services. The project includes approximately 21 stations with a forecasted daily ridership of 62,600. Of the daily ridership, approximately 19,200 riders will be new riders and translate into a net reduction of auto trips.

Bicycle/pedestrian accommodations included

4. Project Phasing:

Project	ln	Improvement	Facility	From	Тο	#Lan	e	Completion D	ate
ID	TIP					From	Tο		
1042	Yes	Construct						2017	

- 5. Purpose / Contribution to regional goals:
- 6. Funding and Schedule Information:

Cost (In Thousands):

\$1,685,000.00 Federal, State

Source:

Cost and Schedule The AA/DEIS is anticipated to be submitted to FTA by summer 2008;

Remarks:

public hearings in fall, 2008. The Purple Line AA/DEIS was completed and submitted to FTA in September 2008. A 90-day public review period was completed on January 14, 2009. Four public hearings were held in November 2008 that yellded over 3000 comments. The County Councils and County Executives of

both Montgomery and Prince George's Counties unanimously Maryland-National Capital Park and Planning Commissions in both counties endorsed the Medium Investment light-rail alternative. -Constuction to begin to 2014 with

services starting in 2017.

7 CMS Documentation:

A-Ï

Is this a highway capacity-increasing project on a limited access or other principal arterial highway?: **No** If yes, does this project require a CMS Documentation form under the given criteria?: If not, please identify the criteria that exempt the project here:

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#### **CONSTRAINED LONG RANGE PLAN (CLRP)**

Proposed Project or Action Description Form

1. Location and Jurisdiction: 2. Submitting Agency: MDOT/State Highway

Administration

Facility: MD 28/198 Norbeck Road/Spencerville Last Modified On: 5/12/2009

Road

From/At: **MD 97** To: **I 95** 

Jurisdiction: Montgomery County, Prince George's

County

3. Project Type and Description:

#### Secondary

Description of project or action:

Study to develop alternatives for capacity improvments in the MD 28 and MD 198 corridors in Montgomery and Prince George's Counties. Wide curb lanes will be included to accommodate bicycles. Sidewalks to be included where appropriate.

Bicycle/pedestrian accommodations included

4. Project Phasing:

Project ID	In TIP	Improvement	Facility	From		#La	احسا	Completion Date
	Yes	Widen Study	MD 28/198 Norbeck Road/Spencerville Road	MD 97	95	2/4	4/6	2020

- 5. Purpose / Contribution to regional goals:
- 6. Funding and Schedule Information:

Cost (In Thousands): \$324,481.00 Date of Completion or Implementation: 2020

Source: Federal, State

Cost and Schedule Remarks:

7. CMS Documentation:

Is this a highway capacity-increasing project on a limited access or other principal arterial highway?: **No** If yes, does this project require a CMS Documentation form under the given criteria?:

If not, please identify the criteria that exempt the project here:

#### **CONSTRAINED LONG RANGE PLAN (CLRP)**

Proposed Project or Action Description Form

1. Location and Jurisdiction: 2. Submitting Agency: MDOT/State Highway

Administration

Facility: MD 3 Robert Crain Highway Last Modified On: 12/3/2008

From/At: US 50

To: Anne Arundel County Line
Jurisdiction: Prince George's County

3. Project Type and Description:

#### **Primary**

Description of project or action:

Study to upgrade MD 3 from US 50 to MD 32 to address safety and capacity concerns. Wide curb lanes and shoulders will accomodate bicycles.

Bicycle/pedestrian accommodations included

4. Project Phasing:

ID AT1981	TIP Yes		MD 3 Robert Crain	US	Anne Arundel County	Fron	n To	Date 2020
A11901	162	Study	Highway	50	Line	*	"	2020

- 5. Purpose / Contribution to regional goals:
- 6. Funding and Schedule Information:

Cost (In \$212,659.00 Date of Completion or Implementation: 2020

Thousands):

Source: Federal, State

Cost and Schedule Remarks: Project planning is expected to be complete by Summer 2009. Cost includes construction in Prince George's County only.

7. CMS Documentation:

Is this a highway capacity-increasing project on a limited access or other principal arterial highway?: Yes

If yes, does this project require a CMS Documentation form under the given criteria?: No

If not, please identify the criteria that exempt the project here: The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange

**Return to Projects** 

# **APPENDIX B**

**DDOT's Amendment** 

## GOVERNMENT OF THE DISTRICT OF COLUMBIA DISTRICT DEPARTMENT OF TRANSPORTATION



Transportation Policy and Planning Administration

April 23, 2009

Mr. Charles Jenkins
Chair
Transportation Planning Board
Metropolitan Washington Council of Governments
777 North Capitol Street, NE – Suite 300
Washington, DC 20002

Dear Mr. Jenkins and members of the TPB,

The District Department of Transportation (DDOT) requests an amendment to the FY 2009 Constrained Long Range Plan (CLRP) and the FY 2010 – 2015 Transportation Improvement Program (TIP) to include roadway changes related to an air rights development project above I-395 between Massachusetts Avenue, NW on the north and E Street, NW on the south. The east-west boundaries of the project are 3<sup>rd</sup> Street, NW on the west and 2<sup>nd</sup> Street, NW on the east. (See attached site photo.)

At the present time, this segment of I-395 (referred to as the "Center Leg Freeway") sits in an open trench between the streets mentioned above. This trench currently interrupts both G Street, and F Street, NW. Thus there are about three city blocks between E Street and Massachusetts Avenue where there is no east-west surface transportation for vehicles, cyclists or pedestrians.

A private developer and the District of Columbia are proceeding with a proposal to develop the air rights above this trench. As part of this proposal, F Street will be reconnected for both vehicular and pedestrian traffic and G Street will be reconnected for pedestrians and cyclists. The developer has named the project "Return to L'Enfant" because it will partially recreate the street grid that was disrupted by the freeway's construction. If the project can pass the various legal and economic requirements and procedures for a project of this type, then the new development (commercial, retail and some residential) combined with the reconnected street grid will add vitality to this area while facilitating greater walking, cycling and transit use. Both the location of this development and its green design and construction will make it a premier example of "smart growth."

DDOT CLRP & TIP Amendment Request April 23, 2009 Page Two

DDOT requests that the TPB follow a proposed schedule (attached) which was developed in cooperation with TPB staff for the purpose of introducing new projects into the FY 2009 CLRP and the FY 2010 – 2015 TIP. The proposed CLRP and TIP amendment sheets are attached for your review, with the understanding that the TPB would not take formal action on this proposal until June  $17^{th}$  when it would receive the results of the public comment period and decide whether to approve a scope of work for conformity testing associated with this proposed CLRP and TIP change.

DDOT appreciates your cooperation in this matter. If you have any questions regarding these proposed amendments, please contact me by e-mail at <a href="mailto:rick.rybeck@dc.gov">rick.rybeck@dc.gov</a> or by phone at (202) 671-2325.

Sincerely,

Rick Rybeck

Deputy Associate Director

Rich Orferl

Transportation Policy & Planning Adminstration.

#### Attachments

cc Gabe Klein, DDOT Director
Karina Ricks, Associate Director, TPPA, DDOT
Kathleen Penney, Deputy Director, DDOT
Matthew Brown, Deputy Director, DDOT
Ron Kirby, Transportation Director, MWCOG

## GOVERNMENT OF THE DISTRICT OF COLUMBIA DISTRICT DEPARTMENT OF TRANSPORTATION



Office of the Director

June 10, 2009

Mr. Ronald Kirby
Director
Department of Transportation Planning
Metropolitan Washington Council of Governments
777 North Capitol Street, NE – Suite 300
Washington, DC 20002

**Re Item # 10**: Approval of Scope of Work and Budget for An Air Quality Conformity Assessment for An Amendment to the 2009 CLRP and FY 2010 – 2015 TIP to Include Projects Described in Items 8 and 9.

Dear Mr. Kirby,

As the TPB prepares to move ahead with air quality conformity determinations for the Purple Line and for the transportation improvements associated with the I-395 Air Rights Development, it comes to the attention of the District Department of Transportation (DDOT) that the network coding for the K Street Transitway, included in conforming versions of the 2003 CLRP and the FY 2004 – FY2009 TIP, is no longer a correct reflection of the latest design work associated with the Transitway.

At the present time, the network coding shows three general purpose travel lanes along K Street, NW between 7<sup>th</sup> Street and 23<sup>rd</sup> Street, NW. This is incorrect for areas abutting Farrugut and Franklin Squares where only two general purpose travel lanes exist. Furthermore, recent studies show that one transit lane in each direction does not provide sufficient level of transit service for the number of buses predicted to be present in this corridor. Therefore, a third transit lane is required to allow through buses to by-pass buses that are stopped. (Transit stops will be staggered so that there is only one stop in one direction on any given block.) As a result, only two general purpose travel lanes in each direction will be the norm along K Street, NW between 7<sup>th</sup> Street and 23<sup>rd</sup> Street, NW.

Therefore, as a technical change to the scope of work, DDOT requests that the network coding more accurately reflect the current plans for the Transitway that have been discussed extensively with the business improvement districts in that area.

TPB Item # 10 June 17, 2009 - Change Request Page Two

However, the District wishes to allow the public to comment on this revision to the network and is willing to respond to any comments that may be received between the release of this information at the CAC on June 11<sup>th</sup> and July 11<sup>th</sup>. Should any of these comments require TPB response, DDOT will assist TPB in preparing that response for the July TPB meeting. The TPB hiatus during August would allow any changes to be incorporated without slipping the schedule for this off-cycle conformity assessment.

Thank you for considering this request to modify the scope of work associated with Item 10 for the June 17<sup>th</sup> TPB Agenda, the "Approval of Scope of Work and Budget for An Air Quality Conformity Assessment for An Amendment to the 2009 CLRP and FY 2010 – 2015 TIP to Include Projects Described in Items 8 and 9."

Please circulate this request to the TPB members and their staff so that they may be aware of this request prior to the TPB meeting on June 17<sup>th</sup>. Please also circulate this request at the June 11<sup>th</sup> TPB Citizen Advisory Committee meeting so that the public comment period can begin at that time.

If you have any questions or concerns, please let me know. I can be reached by e-mail at <a href="mailto:rick.rybeck@dc.gov">rick.rybeck@dc.gov</a> or by phone at (202) 671-2325.

Sincerely,

Rick Rybeck

Deputy Associate Director

Rich Rybert

#### AIR QUALITY CONFORMITY ASSESSMENT AMENDMENTS TO THE 2009 CONSTRAINED LONG RANGE PLAN AND THE FY2010-2015 TRANSPORTATION IMPROVEMENT PROGRAM

#### PROPOSED SCHEDULE

May 1, 2009	TPB Technical Committee briefed on proposed amendments
May 14, 2009	Project descriptions and conformity analysis scope of work released for public comment
*May 20, 2009	TPB briefed on proposed amendments and conformity analysis scope of work
June 13, 2009	Public comment period ends
*June 17, 2009	TPB approves proposed project inputs and conformity analysis scope of work
*July 15, 2009	TPB scheduled to adopt 2009 CLRP and FY2010- 2015 TIP and conformity analysis
September 10, 2009	Draft conformity results for amendment released for public comment
*September 16, 2009	TPB briefed on draft conformity results
October 10, 2009	Public comment period ends
*October 21, 2009	TPB reviews public comments and responses to comments, and adopts conformity analysis, 2009 CLRP, and FY2010-2015 TIP amendments

<sup>\*</sup> TPB meeting

# Proposed for Amendment to the 2009 Update to the Constrained Long-Range Transportation Plan (CLRP)



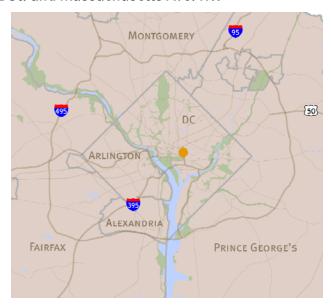
#### Return to L'Enfant: Modifications to I-395 between E St. and Massachusetts Ave. NW

This project will make modifications to three on/off ramps from and to I-395, including the closure of a seldom-used off-ramp to the 400 block of 3<sup>rd</sup> St. NW. Once the ramp modifications are complete, the portion of I-395 between E St. and Massachusetts Ave. NW will be decked over and re-developed with a 2.3 million square foot mix of office, residential, retail, and public space.

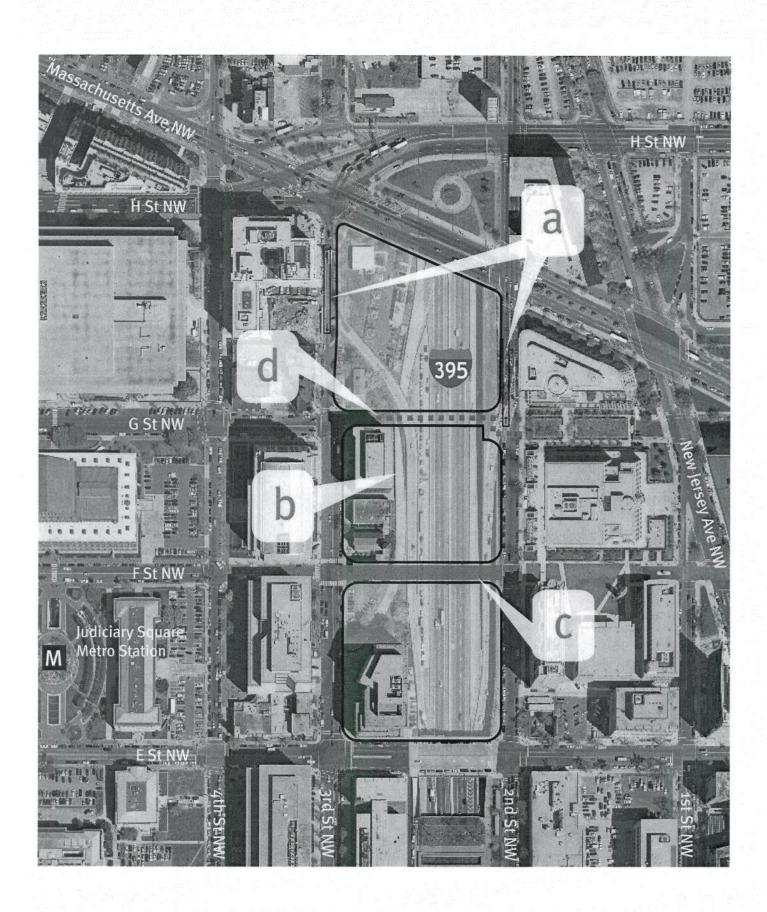
- a. Reconfigure the southbound on-ramp from 3<sup>rd</sup> St. and northbound off-ramp to 2<sup>nd</sup> St.
- b. Close southbound off-ramp from I-395 to the 400 block of 3<sup>rd</sup> St.
- c. Reconnect F St. between 2<sup>nd</sup> and 3<sup>rd</sup> Streets for vehicular, bicycle, and pedestrian traffic.
- d. Reconnect G St. between 2<sup>nd</sup> and 3<sup>rd</sup> Streets for bicycle and pedestrian traffic

Complete: 2014

Cost: \$27 million Source: Private funding







Proposed for Amendment to the 2009 CLRP



### TRANSPORTATION IMPROVEMENT PROGRAM FOR FY 2010-2015 PROJECT DESCRIPTION FORM



#### **BASIC PROJECT INFORMATION**

<ol> <li>Submitting Ag</li> </ol>	gency: District De	epartment of Trans	portation (DDOT)	Agency Pro	ject ID:
-----------------------------------	--------------------	--------------------	------------------	------------	----------

Project Name (from CLRP Project): Return to L'Enfant

3. Phase Name:

	Prefix	Route	Name	Modifier
4. Faci lity:		395	Center Leg Freeway	
5. From (_ at):			Massachusetts Avenue, NW	
6. To:			E St., NW (Between 2 <sup>nd</sup> and 3 <sup>rd</sup> Streets, NW)	

- 7. Agency Phase ID:
- 8. Description:

Return to L'Enfant is a planned unit development (PUD) encompassing the I-395 air rights between E Street and Massachusetts Avenue NW, and available terra firma pieces between 3rd Street NW and I-395. The projected development will cover the sunken I-395 highway with three city blocks and two new Rights of Way (ROWs) at G and F Streets NW, by means of an at-grade platform above the highway. The city blocks will have a total of 2.3 million square feet of office, residential, retail, and public space, with parking garage and service corridor below grade. By creating new building walls along the edges of G and F Streets, the development will demarcate and establish the L'Enfant plan vistas and reconnect the city grid by adding pedestrian and vehicular corridors.

Key transportation components of the project include the following items (noted by letter when a question is applicable to individual aspects; otherwise, applicable to the entire project noted with "X"):

- A. Closure of the I-395 Southbound Exit Ramp to the 400 block of 3rd Street, NW
- B. Reconnection of F Street, NW between 2nd and 3rd Streets, for vehicular, pedestrian and bicycle traffic
- C. Reconnection of G Street, NW between 2nd and 3rd Streets, for bicycle and pedestrian traffic
- D. Reconfiguration of the I-395 Southbound Entrance Ramp from the 600 block of 3<sup>rd</sup> Street, NW
- E. Reconfiguration of the I-395 Northbound Exit Ramp to the 500 block of 2nd Street, NW

		Facility Type		Number of Lanes			
	Improvement	From	To	From	То	Environmental Review	Status
9. Conformi ty Information:							

- 10. Bicycle or Pedestrian Accommodations: ("D", and "E")Not Included; ("B" only) Included; ("C" only) Primarily a Bike/Ped Project; ("A" only) N/A
- 11. Total Miles: <1
- 12. Project Manager: John Makle
- 13. E-Mail: john.makle@dc.gov
- 14. Project Information URL:
- 15. Projected Completion Year: estimated: "A"-2010; "B"-2014; "C"-2014; "D"-2011; "E"-2013
- 16. Actual Completion Year:
- 17. Project Status:
  - X New Project
  - In previous TIP, proceeding as scheduled
  - \_ In previous TIP, delayed or reprogrammed

#### **TIP PROJECT DESCRIPTION FORM**

- \_ Project is ongoing, year refers to implementation
- \_ Project is being withdrawn from TIP

#### 18. Environmental Review

Sta tus: X Proposed for preparation; \_ Under preparation; \_ Prepared for review; \_ Under review; \_ Approved

#### 19. Capital Costs

TRANSP. COMPONENT	FISCAL YEAR	AMOUNT	PHASE	SOURCE	FED	STA	LOC
"A-E"	`09-`10	\$2,000,000	Design	Private			
"A"	2011	\$132,000	Constr	Private			
"B"	<b>`11-</b> `14	\$8,570,000	Constr	Private			
"C"	<b>`11-`15</b>	\$4,040,000	Constr	Private			
"D"	2011	\$5,940,000	Constr	Private			
"E"	<b>`11-</b> `14	\$5,980,000	Constr	Private			

(use the Tab button in the bottom right cell to create more lines in the table)

# FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030 PROJECT DESCRIPTION FORM

#### **BASIC PROJECT INFORMATION**

1. Submitting	ı Age	ency: 🛚	Distric	t Department of Transportation (DDOT)					
2. Secondary	Age	ncy:							
3. Agency P	roject	ID: _							
4. Project T	. Project Type: X Interstate X Primary Secondary X Urban Bridge Bike/Ped Transit CMAQ								
		_ ITS .	_ Enha	ncement _ Other _ Federal Lands Highways Program					
		_ Hum	an Ser	vice Transportation Coordination _ TERMs					
5. Category:		_ Syste	em Exp	ansion; _ System Maintenance; _ Operational Program; _	Study; X Other				
6. Project Na	ame:	Return	to L'E	nfant					
		Prefix	Route	Name	Modifier				
7. Faci lity:		I	395	Center Leg Freeway					
8. From (_ a	at):			Massachusetts Avenue, NW					
9. To:				E St., NW (Between 2 <sup>nd</sup> and 3 <sup>rd</sup> Streets, NW)					

#### 10. Description:

Return to L'Enfant is a planned unit development (PUD) encompassing the I-395 air rights between E Street and Massachusetts Avenue NW, and available terra firma pieces between 3rd Street NW and I-395. The projected development will cover the sunken I-395 highway with three city blocks and two new Rights of Way (ROWs) at G and F Streets NW, by means of an at-grade platform above the highway. The city blocks will have a total of 2.3 million square feet of office, residential, retail, and public space, with parking garage and service corridor below grade. By creating new building walls along the edges of G and F Streets, the development will demarcate and establish the L'Enfant plan vistas and reconnect the city grid by adding pedestrian and vehicular corridors.

Key transportation components of the project include the following items (noted by letter when a question is applicable to individual aspects; otherwise, applicable to the entire project noted with "X"):

- A. Closure of the I-395 Southbound Exit Ramp to the 400 block of 3rd Street, NW
- **B.** Reconnection of F Street, NW between 2nd and 3rd Streets, for vehicular, pedestrian and bicycle traffic
- C. Reconnection of G Street, NW between 2nd and 3rd Streets, for bicycle and pedestrian traffic
- D. Reconfiguration of the I-395 Southbound Entrance Ramp from the 600 block of 3<sup>rd</sup> Street, NW
- E. Reconfiguration of the I-395 Northbound Exit Ramp to the 500 block of 2nd Street, NW
- 11. Projected Completion Date: estimated: "A"-2010; "B"-2014; "C"-2014; "D"-2011; "E"-2013
- 12. Project Manager: John Makle
- 13. Project Manager E-Mail: john.makle@dc.gov
- 14. Project Information URL:
- 15. Total Miles: <1
- 16. Schematic:
- 17. Documen tation:

#### **CLRP PROJECT DESCRIPTION FORM**

- 18. Bicycle or Pedestrian Accommodations: <u>("D", and "E")</u>Not Included; <u>("B" only)</u> Included; <u>("C" only)</u> Primarily a Bike/Ped Project; <u>("A" only)</u> N/A
- 19. Jurisdictions: District of Columbia, Ward 6
- 20. Total cost (in Thousands): preliminary estimate \$27,000 ("A"-"E" design and construction)
- 21. Remaining cost (in Thousands):
- 22. Funding Sources: \_ Federal; \_ State; \_ Local; X Private; \_ Bonds; \_ Other

#### **SAFETEA-LU PLANNING FACTORS**

- 23. Please identify any and all planning factors that are addressed by this project:
- a. X Support the **economic vitality** of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
- b. X Increase the **safety** of the transportation system for all motorized and non-motorized users.
  - i. Is this project being proposed specifically to address a safety issue? \_ Yes; X No
  - ii. If yes, briefly describe (in quantifiable terms, where possible) the nature of the safety problem:
- c. <u>"B" and "C" only</u> Increase the ability of the transportation system to support **homeland security** and to safeguard the personal security of all motorized and non-motorized users.
- d. <u>"B" and "C" only</u> Increase accessibility and mobility of people and freight.
- e. X Protect and enhance the **environment**, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- f. <u>"B" and "C" only</u> Enhance the **integration and connectivity** of the transportation system, across and between modes, for people and freight.
- g. <u>"B", "C" and "D"</u> Promote efficient system management and operation.
- h. "B", "C", "D" and "E" Emphasize the preservation of the existing transportation system.

#### **ENVIRONMENTAL MITIGATION**

- 24. Have any potential mitigation activities been identified for this project? X Yes; No
  - a. If yes, what types of mitigation activities have been identified?
    - X Air Quality; \_ Floodplains; X Socioeconomics; \_ Geology, Soils and Groundwater; Vibrations;
    - X Energy; X Noise; X Surface Water; \_ Hazardous and Contaminated Materials; \_ Wetlands

#### **CONGESTION MANAGEMENT INFORMATION**

- 25. Do traffic congestion conditions necessitate the proposed project? \_ Yes; X No
  - a. If so, is the congestion recurring or non-recurring? \_ Recurring; \_ Non-recurring
  - b. If the congestion is on another facility, please identify it:
- c. What is the measured or estimated Level of Service on this facility? \_\_\_\_; \_ Measured; \_ Estimated
- 26. Is this a capacity-increasing project on a limited access highway or other principal arterial? \_ Yes; X No
- a. If yes, does this project require a Congestion Management Documentation form under the given criteria (see page 34 of the *Call for Projects* document)? \_ Yes; <u>Click here to access a Congestion Management Documentation Form.</u>
- b. If not, please identify the criteria that exempt the project here:
  - X The number of lane-miles added to the highway system by the project totals less than 1 lane-mile
  - <u>"B"</u>, <u>"C"</u> and <u>"D"</u> The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange
  - \_ The project will not allow motor vehicles, such as a bicycle or pedestrian facility
  - \_ The project consists of preliminary studies or engineering only, and is not funded for construction

#### **CLRP PROJECT DESCRIPTION FORM**

- \_ The project received NEPA approval on or before April 6, 1992
- \_ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.
- \_ The construction costs for the project are less than \$5 million.
- \_ The project will not use any Federal funds in any phase of development or construction.

#### **INTELLIGENT TRANSPORTATION SYSTEMS**

- 27. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? \_ Yes; X No
  - a. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? \_ Not Started; \_ Ongoing, not complete; \_ Complete
  - b. Under which Architecture:
    - \_ DC, Maryland or Virginia State Architecture
    - \_ WMATA Architecture
    - \_ COG/TPB Regional ITS Architecture
    - \_ Other, please specify:
- 28. Compl eted Date:
- 29. Project is being withdrawn from the CLRP.
- 30. Wi thdrawn Date:
- 31. Record Creator:
- 32: Created On:
- 33. Last Updated by:
- 34. Last Updated On:
- 35. Comments

# **APPENDIX C**

**Scope of Work** 

# AIR QUALITY CONFORMITY ASSESSMENT AMENDMENTS TO THE 2009 CONSTRAINED LONG RANGE PLAN AND THE FY2010-2015 TRANSPORTATION IMPROVEMENT PROGRAM

#### SCOPE OF WORK

#### I. INTRODUCTION

The Maryland Department of Transportation (MDOT) and the District Department of Transportation (DDOT) each requests an amendment to the 2009 Constrained Long Range Plan (CLRP). MDOT's is for the construction of the Purple Line from New Carrollton to Bethesda. DDOT's is for a proposed development in the air rights over I-395 between E St. and Massachusetts Ave. NW, which includes some transportation components. The 2009 CLRP and FY2010-2015 TIP are scheduled to be adopted by the Transportation Planning Board (TPB) in July, 2009. Both amendments affect the air quality conformity analysis, and will therefore require a new demonstration of air quality conformity before they can be adopted as plan and program elements by the Transportation Planning Board (TPB).

This scope of work reflects the tasks and schedule designed for the air quality conformity assessment leading to adoption of the amended plan and program. This work effort addresses requirements associated with attainment of the ozone standards (volatile organic compounds (VOC) and nitrogen oxides (NOx) as ozone precursor pollutants), and fine particles ( $PM_{2.5}$ ) standards (direct particles and precursor NOx), as well as maintenance of the wintertime carbon monoxide (CO) standard.

The amended plan and program must meet air quality conformity regulations: (1) as originally published by the Environmental Protection Agency (EPA) in the November 24, 1993 Federal Register, and (2) as subsequently amended, most recently on January 24, 2008, and (3) as detailed in periodic FHWA / FTA and EPA guidance. These regulations specify both technical criteria and consultation procedures to follow in performing the assessment.

This scope of work provides a context in which to perform the conformity analyses and presents an outline of the work tasks required to address all regulations currently applicable.

#### II. APPROACH

The analytical approach is the same as that currently being applied in the air quality conformity assessment of the 2009 CLRP and FY2010-2015 TIP, scheduled for approval by the TPB in July 2009, which is outlined in the summary table below.

TABLE 1 – Summary of Technical Approach

	Ozone	Wintertime CO	PM <sub>2.5</sub>
Pollutant:			Direct particles,
	VOC, NOx	CO	Precursor NOx
Emissions			Reductions from
Assessment	Existing 1-hour ozone	Approved	base 2002
Criteria:	budgets	wintertime CO	inventory &
	& 8-hour ozone budgets	emissions	comparison to
		budget	budgets
Emissions			
Analysis Time-			
frame:	Daily	Daily	Annual
Geography:	1-hour ozone non-		
	attainment area		
	8-hour ozone non-		1-hr. area less
	attainment area (1-hr. area	DC, Arl., Alex.,	Stafford and
	less Stafford)	Mont., Pr. Geo.	Calvert counties
Network Inputs:	Regionally	significant project	S
Land Activity:	R	ound 7.2A	
Modeled Area:	Expanded (	Cordon (2191 zone	e)
Travel Demand			
Model:		ersion 2.2	
Mobile Model:	MOBILE6.2	MOBILE6.2	MOBILE6.2
	emissions factors,	Consistent with	'Seasonal'
	consistent with the	procedures	approach,
	procedures utilized to	used to	consistent with
	establish the VOC and	establish the	procedures used
	NOx mobile source	budget	to establish the
	emissions budgets		budget
Emissions			
Factor	Use of 2008 vehicle re	gistration data for a	all jurisdictions
Refinements:			

#### III. CONSULTATION

A  $30~\rm day~public~comment$  / interagency consultation period followed by response to comments will be provided for the following milestones:

- Project review
- Air quality conformity scope of work
- Conformity report

#### IV. WORK TASKS

- 1. Prepare forecast year highway and transit networks
  - 2010, 2020, 2030
- 2. Review and update land activity files
  - Round 7.2A
- 3. Prepare 2010 travel and emissions estimates
  - Execute travel demand modeling
  - Calculate emissions (daily for ozone season VOC and NOx for ozone standard requirements; daily for winter CO; yearly for PM2.5 direct particles and precursor NOx)
- 4. Prepare 2020 travel and emissions estimates
  - Execute tasks as in 2010 analysis, execute toll processes
- 5. Prepare 2030 travel and emissions estimates
  - Execute tasks as in 2020 analysis
  - Apply "transit constraint" using 2020 levels
- 6. Analyze results of above technical analysis
  - Reductions from 1990 (ozone season VOC and NOx and winter CO) and 2002 base (ozone season VOC and NOx, winter CO, and PM<sub>2.5</sub>)
  - 1-hour and 8-hour ozone season VOC and NOx budgets, direct PM<sub>2.5</sub> and precursor NOx budgets, and winter CO emissions budgets
- 7. Assess conformity and document results in a report
  - Document methods
  - Draft conformity report
  - Forward to technical committees, policy committees
  - Make available for public comment and interagency consultation
  - Receive comments
  - Address comments and present to TPB for action
  - Finalize report and forward to FHWA and FTA

#### AIR QUALITY CONFORMITY ASSESSMENT AMENDMENTS TO THE 2009 CONSTRAINED LONG RANGE PLAN AND THE FY2010-2015 TRANSPORTATION IMPROVEMENT PROGRAM

#### **SCHEDULE**

May 1, 2009	TPB Technical Committee briefed on proposed amendments
May 14, 2009	Project descriptions and conformity analysis scope of work released for public comment
*May 20, 2009	TPB briefed on proposed amendments and conformity analysis scope of work
June 13, 2009	Public comment period ends
*June 17, 2009	TPB approves proposed project inputs and conformity analysis scope of work
*July 15, 2009	TPB scheduled to adopt 2009 CLRP and FY2010- 2015 TIP and conformity analysis
September 10, 2009	Draft conformity results for amendment released for public comment
*September 16, 2009	TPB briefed on draft conformity results
October 10, 2009	Public comment period ends
*October 21, 2009	TPB reviews public comments and responses to comments, and adopts conformity analysis, 2009 CLRP, and FY2010-2015 TIP amendments

<sup>\*</sup> TPB meeting

## **STAFFING / BUDGET**

	Person Days		
Director	5		
Senior Engineer	60		
Engineer II	14		
Total Salary			
Total Salary	Direct	<b>c</b>	26 400
		\$	26,400
	M & A	\$	6,600
	Leave Additive	\$	6,270
	LCave / taaitive	Ψ	0,270
Fringe		\$	7,860
Ü		•	,
Indirect		\$	16,970
Total Project Cos	st	\$	64,100

## **APPENDIX D**

Round 7.2A
Cooperative Forecast
Correspondence

June 17, 2009

Paul DesJardin, Director Department of Community Planning and Services Metropolitan Washington Council of Governments 777 North Capitol Street, NE Suite 300 Washington, D. C. 20002

Dear Mr. DesJardin:

The Montgomery County Planning Department has evaluated the Round 7.2 Cooperative Forecasts and submits the following revisions as part of Round 7.2a. These revisions are being submitted as the Transportation Planning Board considers the inclusion of the Purple Line from Bethesda to New Carrollton in the Region's Constrained Long-Range Transportation Plan.

The extension of the Purple Line from the Silver Spring CBD east to New Carrollton will put more of the Region's households within a reasonable commuting time to existing or potential work locations in Montgomery County. The Planning Department encourages mixed-use commercial and housing development at or near transit stations. For Round 7.2a, we find that the timing of planned development will be accelerated at the following transit stations: Chevy Chase Lakes, Fenton Village, Long Branch, and Takoma/Langley. We have consulted with our colleagues in Prince George's County and believe our projections to be consistent with the overall objectives and expectations of both Counties with respect to the Purple Line.

Round 7.2a shows an increase of 3,000 jobs between 2020 and 2030. The job growth beyond 2030 remains the same as the job growth in Round 7.2; therefore the 2040 employment is 3,000 higher than Round 7.2.

Round 7.2a shows an increase of 400 households between 2020 and 2030. The household growth between 2035 and 2040 is reduced by 400 households compared to Round 7.2. The number of households in 2040 is the same in both forecasts.

Round 7.2a population increases by 1,000 between 2020 and 2030. The population growth between 2035 and 2040 is reduced by 1,000 compared to Round 7.2. The population in 2040 is the same in both forecasts.

The Purple Line is scheduled to be operational in 2017. Round 7.2a forecasts growth associated with the Purple Line occurring between 2020 and 2030 as we feel it will take a few years after the Purple Line is operational for growth to occur in the areas examined as part of our analysis.

A summary of our updated forecasts is presented in the attached table. Please do not hesitate to contact Wayne Koempel of our Research Division at 301-650-5618 should you have any questions related to this submittal.

Sincerely,

Hallen 5 fanleg.
Rollin Stanley

Planning Director

Montgomery County - Round 7.2a

***************************************					
Year	Population	Households	Employment		
2005	929,100	347,000	500,000		
2010	966,000	362,000	510,000		
2015	1,025,000	386,000	547,000		
2020	1,075,000	408,000	590,000		
2025	1,113,500	425,200	631,500		
2030	1,142,000	440,400	673,000		
2035	1,161,000	451,400	703,000		
2040	1,174,000	460,000	723,000		



## MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

Prince George's County Planning Department Office of the Planning Director 14741 Governor Oden Bowie Drive Upper Marlboro, Maryland 20772 TTY: (301) 952-4366 www.mncppc.org/pgco 301-952-3595

June 17, 2009

Mr. Paul DesJardin, Chief of Housing and Planning Department of Human Services, Planning, and Public Safety Metropolitan Washington Council of Governments 777 North Capitol Street, N.E., Suite 3000 Washington, D.C. 20002-4239

Dear Mr. DesJardin:

This letter transmits Prince George's County's Round 7.2A Cooperative Forecast. The Round 7.2A for Prince George's County incorporates changes to the prior Round 7.2 forecast and reflects the proposed amendment to include the Purple Line in the 2009 Constrained Long Range Plan. This round contains only minor changes to the prior round, which was submitted last year, because the previous forecast for Prince George's County largely accounted for the Purple Line. The Planning Department used the opportunity of Round 7.2A to make adjustments to Round 7.2 because the proposed amendment to the 2009 CLRP increases the likelihood of the Purple Line.

Round 7.2A Cooperative Forecast for Prince George's County

						<u>.,                                    </u>			
	2005	2010	2015	2020	2025	2030	2035	2040	
<b>Dwelling Units</b>	323,026	335,423	349,173	363,159	375,612	386,892	394,782	399,426	
Households	306,014	317,881	331,243	344,789	356,841	367,834	375,627	380,375	
Population	849,333	872,014	899,192	924,788	945,710	966,852	985,064	995,372	
Employment	347,885	362,886	379,393	399,211	424,429	454,932	488,946	524,292	

Questions regarding this information should be directed to either Ms. Jacqueline Philson or Mr. Joseph Valenza of our Research Section at 301-952-3065.

Sincerely,

Fern Piret

Planning Director

Lera Piret

c: John Funk, Chief, Countywide Planning Division Jacqueline Philson, Planning Supervisor, Research Section Joseph Valenza, Master Planner, Research Section