

## PROGRAM HIGHLIGHTS

### 1. PLAN SUPPORT

#### A. Unified Planning Work Program (UPWP)

Work continued on monitoring the FY 2010 UPWP which began on July 1, 2009.

#### B. Transportation Improvement Program (TIP)

On June 26, TPB Staff briefed the Technical Committee on the Draft FY 2010-2015 TIP and the outcome of the June 11 TIP Forum.

On July 15, the TPB approved the FY 2010-2015 TIP. The approval included an amendment as requested by the District Department of Transportation (DDOT) to add four projects with funding from the American Recovery and Reinvestment Act (ARRA).

#### C. Constrained Long-Range Plan (CLRP)

The public comment period on the Draft 2009 CLRP and FY 2010-2015 TIP closed on July 11. TPB staff consulted with state and local agencies to develop responses to the comments that were received.

At the July 15 meeting, the TPB approved the 2009 Update to the CLRP along with a resolution to endorse the Statement of Certification as required by the Joint Planning Regulations issued by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA).

#### D. Financial Plan

The fourth working group meeting on the financial analysis for the 2010 plan update was held on July. Staff from the implementing agencies reported on their progress in preparing revenue and expenditure forecasts. Staff from WMATA distributed and reviewed the key assumptions used for forecasting WMATA rail, bus and MetroAccess operating expenditures and revenues. The consultant continued to work with the implementing agency staffs to assemble cost and revenue data and forecasts. The next meeting of the working group is scheduled for September 22.

#### E. Public Participation

During July and August, staff prepared for the Access for All Advisory Committee meeting held on July 23, 2009. Three presenters were invited and confirmed to discuss MetroAccess issues, the Purple line Project and fiscal impacts on low-income populations for the meeting. The AFA committee

discussed WMATA's progress towards implementing the priority recommendations from the TPB Independent Review of MetroAccess.

The Citizen Advisory Committee (CAC) meeting on July 9 included extensive discussion of upcoming activities in the new fiscal year, including public outreach and the integration of the scenario study into the FY2010 long-range plan. The CAC also held a special meeting on August 19 to discuss the development of recommendations regarding the TPB's long-range plan.

The DTP hired a new staff member, Deb Bilek, to focus on public outreach.

Staff began planning public outreach activities for the 2010 CLRP.

F. Private Enterprise Participation

The TPB Regional Taxicab Regulators Task Force met on July 22 and continued to work through issues of disagreement in their development of a regional reciprocity agreement. The Task Force also received a presentation on Arlington County's enforcement procedures specifically pertaining to out-of-jurisdiction taxi violations.

G. Annual Report

The July-August edition of the TPB News was produced and distributed.

H. Transportation / Land Use Connection Program (TLC)

The TPB on July 15 approved seven projects for FY2010. In August, TPB staff sent Requests for Proposals for these seven projects to firms selected from the pre-qualified list of consultants.

TPB staff continued to work with TLC lead consultant Reconnecting America on the development of regional toolkits for the program. A web/communications firm was hired to create a video from a previously developed presentation called "Understanding Density." In addition, work continued on the development of a toolkit on housing/transportation affordability.

I. DTP Management

In addition to the provision of staff support for meetings of the TPB, the Steering Committee, and the Technical Committee, the following activities were undertaken:

- The DTP Director gave a presentation at a Congestion Pricing Workshop at the TRB Summer meeting in Seattle.
- The DTP Director met with representatives of the General Accountability Office to discuss TPB's role in programming federal stimulus funds.

- The DTP Director participated in a joint AASHTO/AMPO meeting to discuss issues related to greenhouse gas reductions and the new transportation authorization legislation.
- The DTP Director participated in a two-day NCHRP panel meeting which reviewed a draft consultant report on incorporating greenhouse gas reduction strategies into transportation planning.

## 2. COORDINATION PLANNING

### A. Congestion Management Process (CMP)

Staff developed a written working plan for the FY 2010 edition of the CMP Technical Report. Available documents and data were compiled and analyzed. Information about potential materials for the new report was gathered and some information requests were sent out. Staff began development of the draft new report.

Staff completed a travel time reliability and variability analysis along a segment of eastbound I-66 using one year detector data extracted from the Virginia Archived Data Management System (ADMS). Travel time reliability and variability were studied under different traffic conditions (i.e., traffic conditions with incidents but no road work, with roadwork but no incidents, without either incidents or roadwork, and when there were both incidents and roadwork), for potential use in the CMP Technical Report.

Staff obtained and extracted 6 months worth of 5-minute aggregated speed and travel time data from INRIX, Inc. available through an I-95 Corridor Coalition agreement. The data covers the majority of the freeway system and several major arterial corridors in our region. The raw data were processed and reduced and ready for analyses. Several statistics were calculated and results were visualized in GIS.

Staff worked with the Technical Support Team solved a location translation problem between the INRIX traffic data and the NAVTEQ GIS network. Staff began to develop a new GIS layer based on the NAVTEQ network to more effectively visualize traffic information.

Staff made presentations on the status of the CMP to the MOITS Technical Subcommittee on July 14 and to the Travel Management Subcommittee on July 21.

On July 16, staff attended a meeting at University of Maryland of the Information Systems Subcommittee of the Metropolitan Area Transportation Operations Coordination (MATOC) Program and discussed the Regional Integrated Transportation Information System (RITIS) data sharing plan, data archive plan, system enhancements and other issues.

Staff provided requested information on the CMP to the MOITS Strategic Plan consultant team.

B. Management, Operations, and Intelligent Transportation Systems (ITS) Planning

- The Management, Operations, and Intelligent Transportation Systems (MOITS) Policy Task Force and Technical Subcommittee met jointly on July 14, 2009. The group discussed MOITS Strategic Plan development activities, as well as the status of MOITS and related work program items.
- Staff continued coordinating with the Regional Emergency Support Function #1 – Emergency Transportation Program and Committee, and attended the regular RESF-1 Committee meeting on August 25.
- Staff also continued coordination work with the Metropolitan Area Transportation Operations Coordination (MATOC) Program, including participation in MATOC meetings or conference calls on July 9, 16, 20, and 21, and August 11, 13, 18, and 21. See also Item 2.C.
- MOITS Strategic Plan Activities: Staff led the review process for the Request for Qualifications (RFQ) issued in June for consultant assistance with MOITS Strategic Plan. Staff led the meeting of the RFQ Selection Committee on July 14, which made a recommendation on the project award. The project was awarded to a team in late July, with the notice to proceed issued on August 28. Staff met with the consultant team on August 28 for the official project kick-off.
- Traffic Signals Activities: The MOITS Traffic Signals Subcommittee did not meet in July. Staff continued work carried over from FY2009 on a regional summary map of traffic signal locations and conditions.
- Regional ITS Architecture Activities: Staff met with the Chair of the MOITS Regional ITS Architecture Subcommittee on July 8, developing a strategic outlook for architecture activities for FY2010. Staff also undertook supporting technical work in this area.
- Staff undertook preparatory and supporting work in the above areas.
- On July 15, staff participated in an interview with representatives of the U.S. Department of Transportation Volpe Center regarding the role of ITS architecture in metropolitan planning.

C. Transportation Emergency Preparedness Planning

The Regional Emergency Support Function-1 – Transportation (RESF-1 – Transportation) Committee provides an interface between transportation and emergency management agencies and activities; and is staffed by COG's Department of Human Services, Planning, and Public Safety. After a brief staff vacancy, a new staff person was hired to support this task, beginning work on July 13, 2009. The RESF-1 Committee met on August 25, discussing an ongoing National Capital Region Homeland Security Strategic Plan update; follow-up activities to the Presidential Inauguration After-Action Report; the status of the Urban Area Security Initiative Program; and the outlook for RESF-

1 Committee activities for this year as well as coordination with other committees. Staff undertook preparatory and supporting work in these areas.

D. Transportation Safety Planning

TPB staff was able to compile regional crash data using published sources provided by the District of Columbia Department of Transportation, the Maryland Highway Safety Office, and by running queries on the statewide Access database of crashes provided by the Virginia Department of Transportation. Due to some unresolved discrepancies within the data provided by DDOT, and some compatibility and reporting differences between the two States, fatality and injury data could not be reported for most of the safety emphasis areas. After some inquiries, DDOT staff recommended that we use the FARS (Federal Accident Reporting System) data for the District of Columbia. That information will be made part of the Safety Element of the Constrained Long-Range Plan.

E. Bicycle and Pedestrian Planning

At its July meeting the bicycle and pedestrian subcommittee was briefed on the Regional Bus Priority Corridors TIGER funding application. A regional bike sharing program will be part of that application, and some of the projects will incorporate pedestrian improvements.

The Subcommittee was briefed by on the results of the Spring 2009 Street Smart pedestrian and bicycle safety campaign. Pre and post-campaign surveys indicate that target audiences are remembering the messages, and increased law enforcement was reflected in greater audience awareness of law enforcement. Representatives of Greenology, Inc. presented on a bike storage system their company has developed.

The Subcommittee discussed the TPB directive that more information on funding of bicycle and pedestrian projects should be incorporated into the TIP. The Subcommittee noted that when bicycle and pedestrian projects are part of a larger project it is difficult to break out the portion of the project cost that should be attributed to the bicycle or pedestrian elements; such a number can be no better than a rough estimate. The Subcommittee agreed that more concrete measures of what is being accomplished, such as types and length of facilities, would be at least as good a measure of accomplishment as the amount of funding programmed. The Subcommittee also agreed that another good source of performance indicators would be an updated regional bicycle and pedestrian project database.

Some defects were in the on-line database of bicycle and pedestrian projects, removing what had been a recurrent obstacle to making the database current, and ultimately to updating the regional bicycle and pedestrian plan.

F. Regional Bus Planning

During the months of July and August, staff continued the regional bus planning efforts. At the July subcommittee meeting, members discussed the potential work products for the upcoming fiscal year, and asked staff to begin two new planning efforts: evaluating opportunities for coordination between bus operators, and visualization of out-year bus transit routes and levels of service to better refine long range transit planning.

G. Human Service Transportation Coordination

Staff participated in a meeting with the D.C. Taxicab Commission and representatives from Baltimore from the Mayor's Commission on Disabilities and other local agencies to share the D.C. experience in establishing an accessible taxicab pilot project using Federal Transit Administration funds.

Staff recruited a new Chair for the Human Service Transportation Coordination Task Force and prepared for a meeting of the Task Force.

Staff participated in an Easter Seals Project ACTION National Steering Committee and learned about coordination efforts at the Federal level, as well as possible new directions for the Human Service Transportation Coordination program under the new surface transportation authorization.

At the July Access for All Advisory Committee meeting, the Committee discussed WMATA's progress towards implementing the priority recommendations from the TPB Independent Review of MetroAccess conducted under this program element. Staff also made a presentation to the Access for All Committee on the 10 JARC and New Freedom projects funded under the 2009 solicitation.

H. Freight Planning

- Staff participated in ongoing coordination, meetings, and calls with CSX Transportation regarding their request of the TPB for support of its National Gateway Initiative. Staff briefed the TPB at their July 15<sup>th</sup> meeting on the Freight Program. This presentation was concluded with CSX providing a few remarks and their request for TPB support. The TPB decided to defer the decision on a draft letter of support to the September meeting.
- Staff continued to work on the National Capital Region Freight Plan. This includes collecting information, identifying publically available data, researching potential privately owned data sources, and analyzing information.
- Staff coordinated with FedEx Freight to hold a tour of the FedEx Express Freight Facility in Washington D.C. on July 9, 2009.

- Staff met with District Department of Transportation Motor Carrier Program employee on July 27, 2009 to exchange information about projects currently underway and to discuss the potential for data sharing.
- Staff participated in the FHWA sponsored *Talking Freight* program on August 19, 2009. The topic was “Highway Networks and their Relationship to Freight.”
- Staff maintained the freight components of the MWCOG Web Site as well as updated freight components of the 2009 CLRP.
- Staff prepared and distributed the monthly *Focus on Freight*-July and August 2009 newsletter.
- Staff participated in the FHWA sponsored *Talking Freight* program on August 19, 2009. The topic was “Highway Networks and their Relationship to Freight.”

### 3. **FORCASTING APPLICATIONS**

#### A. Air Quality Conformity

Consistent with the approved schedule for the air quality conformity assessment of the 2009 CLRP and FY2010-15 TIP, following the public comment period which ended on July 11<sup>th</sup>, staff prepared response to comments and presented the report to the TPB at its July meeting. The TPB approved the conformity analysis and the CLRP and TIP. Staff completed the final report, and sent it to the appropriate federal agencies for approval. The final report is posted on the COG website for download.

COG/DEP staff reviewed the conformity assessment and worked with MWAQC and its Technical Advisory Committee to provide a comment letter on the report.

Subsequent work, to assess the air quality conformity implications of proposed DDOT and MDOT amendments to the 2009 CLRP, is reported below within the District of Columbia and Maryland technical assistance programs.

Staff participated in an AMPO / EPA conference call regarding EPA's proposed rule on nitrogen dioxide issues. Staff also participated in the bi-annual, EPA / FHWA-sponsored Southern Transportation and Air Quality Summit held in Jacksonville, Florida.

In accordance with TPB consultation procedures, staff also forwarded to the consultation agencies and public advisory committees the meeting agenda and a summary memo regarding the July TPB meeting and air quality conformity consultation elements.

B. Mobile Emissions Analysis

Staff updated previously developed Greenhouse Gas (GHG) emissions inventories to reflect the latest CLRP land use, network, 2008 vehicle registration data and 35.5 miles per gallon fuel economy standards. Staff developed new CO<sub>2</sub> emission rates based on the above inputs, and updated all the previously analyzed GHG reduction measures in the Climate Change report including cost effectiveness. Staff is preparing a comprehensive report encompassing the above work. Staff researched the impact of the proposed renewable fuel standards on NO<sub>x</sub> and VOC emissions and their potential impact on future transportation conformity. Staff attended the inaugural meeting of COG's Climate, Energy and Environment Policy Committee.

Staff continued work activities to test the new draft version of EPA's MOVES model. Staff worked with Environmental Programs staff in forming the MOVES Task Force made up members from the Transportation Planning Board Technical Committee Metropolitan Washington Air Quality Committee's Technical Advisory Committee and the inaugural meeting of the MOVES Task Force was held on August 18, 2009. The task force discussed the goals of the task force, characteristics of the new model, work activities for the group, comments to EPA on the draft MOVES model, and schedule of upcoming meetings. The next meeting of the group will be held on September 15, 2009.

In support of SIP planning activities, staff participated in meetings / conference calls of MWAQC's Executive Committee and its Technical Advisory Committee.

The Travel Management Subcommittee met on July 21, 2009 and discussed the status of the ongoing conformity assessment of amendments to the 2009 CLRP, green house gas work activities, renewable fuels standard, work activities associated with the draft MOVES model, and congestion management process work activities. The next meeting of the subcommittee will be held on September 22, 2009 if needed.

- Coordinated activities with TPB staff to establish a task force to address technical issues associated with a transition to EPA's new MOVES model.
- Participated in the First MOVES task force meeting held in August to address various issues associated with the transition to EPA's new MOVES model. Staff gave a presentation on various inputs, outputs, and procedures to be used for the MOVES model in future SIPs and conformity analyses.
- Continued to work collaboratively with COG/DTP staff on analysis of data inputs needs for the MOVES model.
- Participated in MARMA MOVES model conference calls regarding mobile modeling issues as part of photochemical modeling for the new ozone and fine particle standards.
- Coordinated MOVES issues for MWAQC-TAC meeting, attended TPB Technical Committee, TMS, and TPB meetings in July.

C. Regional Studies

The TPB Scenario Study Task Force met on August 5 to finalize the project components of TPB's ARRA TIGER Grant submission. Staff collected data for the final components, developed comprehensive cost-benefit analyses for three distinct parts of the project, and completed a draft of the full grant application, to be submitted on September 15.

TPB staff also presented a status update on the ongoing work for the "What Would It Take" Scenario, including updated mobile GHG emissions forecasts that incorporate new CAFE standards and analysis of some GHG reduction strategies to the TPB on July 15.

D. Coordination Cooperative Forecasting & Transportation Planning

Staff reviewed the proposed schedule and timelines for the development of Round 8.0 Cooperative Forecasts with the Cooperative Forecasting Subcommittee.

Staff began the processing and geocoding of the Dunn & Bradstreet employment files for 2005 and 2007 to assist local jurisdictions in prepare base year small area employment estimates by major industry type for the new more detailed Transportation Analysis Zone (TAZ) system that will be used in the development of Round 8.0 Cooperative Forecasts. Staff also obtained employment data from the Virginia Employment Commission (VEC) to assist the Virginia local jurisdictions with their employment estimates.

Staff completed the 2004 to 2008 Economic Trends Report and the 2008 Commercial Construction Report.

Staff prepared the draft TAZ-level Round 7.2A Cooperative Forecasts in land activity files for the Maryland "Purple Line" and the DC "Return to L'Enfant" TPB's Constrained Long Range Plan (CLRP) air Quality Conformity Analysis.

Staff responded to questions on the Cooperative Forecast Round TAZ-level 7.2A database of forecast employment, households and population growth.

4. **DEVELOPMENT OF NETWORK / MODELS**

A. Network Development

TPB has been working with Daniel Consultants, Inc. throughout FY-2009 to develop a GIS-based database and editing application to facilitate network development and management procedures. TPB staff identified some deficiencies in the product delivered by Daniel Consultants, Inc. at the end of the contracting period (June 30) contained deficiencies. One such deficiency was the inability for multiple users to edit transit network elements. A meeting between TPB staff and DCI was convened on July 24 to discuss remaining

issues in the project deliverables. DCI agreed to continue work to address the problems identified. Work has progressed throughout August, and has included a number of changes to the database and to the editing application. TPB continued testing of the new application versions during this period. The GIS application will be put into production in September.

TPB staff continued work on conflating existing highway network nodes and links with the NAVTEQ street base map. This activity will improve the precision of the highway alignments depicted in the TPB's highway and transit networks. And will be used to compliment the DCI application.

Documentation on Network Development activities for FY-2009 was presented to the Travel Forecasting Subcommittee at its July 17 meeting.

B. GIS Technical Support.

Staff continued to monitor the performance of ArcGIS 9.2 and the GIS server.

Staff worked with the consultant who developed the improved Master Highway and Transit Network editing application to resolve several software bugs and implementation issues.

Staff added the NAVTEQ Traffic Message Channel (TMC) layer to the spatial data library.

Staff continued to work with the transportation network coding team on the geometric realignment of the TPB Master Network to the NAVTEQ street database. Staff performed quality control check of the updates to the TPB Master Network and made some refinement to the software application developed for this project.

Staff coordinated with the Towson University Center for GIS (CGIS) and the members of the GIS Committee on work activities being performed by CGIS and Committee for the USGS Regional Landmark and Transportation projects.

Staff attended the monthly MD MSGIC executive committee meeting to increase GIS coordination among COG and state and local government agencies in Maryland.

C. Models Development

TPB staff presented on the FY-2009 Models development activities to the Travel Forecasting Subcommittee at its July 17 meeting. The presentation was accompanied a year-end report.

Cambridge Systematics, Inc. (CS) the consultant retained to conduct focused research on modeling practices around the U.S., presented the results of two research tasks (Tasks 5 and 6) undertaken at the end of FY-2009 to the Travel

Forecasting Subcommittee. The research tasks were: 1) to investigate how the Version 2.3 model might be improved with respect to land use policy and non-motorized travel, and 2) to recommend possible changes to the regional model regarding feedback convergence methods. CS transmitted draft task reports for the TPB staff to review in July.

During August staff also began reviewing initial files from the 2007/2008 Household Travel Survey. (The household and vehicle files were obtained). Logic and validation checks of the household file began in August.

TPB staff members attended Cube software training offered by Citilabs, Inc. on July 27-31. The training focused on some of the latest features of the software.

#### D. Software Support

Staff continued work activities and assistance to the consultant to implement the new GIS database network development application. As part of this transition staff reformatted the conformity project table from the 2009 CLRP to be used as an input to update the network database with the most recent project information. When the new platform was first developed, the current database reflected the 2008 CLRP, so it was necessary to bring the database up-to-date.

Following a meeting with COG's office of Technology Programs and Services staff to discuss storage array requirements, DTP staff proceeded with executing a variety of benchmark travel demand model runs in order to test the performance of updated hardware.

In response to an EPA consultant data request, staff delivered a technical memorandum documenting specific modeling methodologies and travel demand output. As a part of this data request, staff created scripts and ran programs in TP+ to estimate average values for certain model variables (average travel time, fare, etc.).

### 5. TRAVEL MONITORING

#### A. Cordon Counts

Staff began processing and analyzing data collected for the Central Employment Cordon Count during FY2009. In addition, staff began to evaluate the effectiveness of the current data collection approach employed in prior years and identify methodological adjustments needed to minimize risk of incomplete counts in the future.

B. Congestion Monitoring and Analysis

The draft report of the arterial travel time/speed data was completed and is under internal review. Staff will prepare a power point presentation for the September Travel Forecasting Subcommittee.

C. Travel Surveys and Analysis Household Travel Survey (HTS)

Staff reviewed the geocoded, edited and factored Household Travel Survey household, person and vehicle files with the models development team.

Staff also made some minor modifications to the coding of draft final geocoded, edited and factored Household Travel Survey trip file in response to some suggestions by the models development team and performed some final quality control checks on the trip file survey data.

Staff coordinated finalization of the factored Household Travel Survey trip file with the Baltimore Metropolitan Council which jointly participated in the 2007.2008 HTS.

D. Regional Transportation Data Clearinghouse

Staff began the update of transit databases in the Regional Transportation Clearinghouse with new data obtained from WMATA and local jurisdiction transit systems.

6. **TECHNICAL ASSISTANCE**

A. **DISTRICT OF COLUMBIA**

1. Program Development, Data Requests & Miscellaneous Services

Staff coordinated with consultants doing the 14<sup>th</sup> St. Bridge Corridor EIS to assure consistency of methods between regional analysis and the EIS process for the study. Regarding the technical work on this project, staff provided the following support to DDOT / FHWA. Staff reviewed base year validation and 2030 no-build inputs and outputs delivered by the study consultants, and compared them with results from the 2030 CLRP. Staff also met with the consultants to discuss the results of the review.

Following a request for travel data (screenline, select link and mode choice summaries) from DDOT's consultants working in the area of the city north of Massachusetts Avenue (NoMa), staff prepared a scope of services and, after receiving a notice to proceed, executed the model runs and data retrievals and delivered the requested data to the consultants.

Staff coordinated with DDOT staff to develop a scope of work and budget for identifying truck loading zones in specified areas of the District of Columbia.

2. DDOT Traffic Counts

Spring/Summer 2009 traffic volume counts will be converted to a database, staff worked with the consultant in designing the format of the system.

3. Bicycle Counts

No activity to report during the reporting period.

4. Phase II – Evaluation of the Metrobus Priority Corridor Network

This project provides partial funding for the consultant study to evaluate the Metrobus Priority Corridor Network. See the progress report on this study under WMATA work activity D.3. below.

5. DC WARD 6 Ballpark

Staff completed all data collection for both the Ward 6/Nationals Ballpark area and the Columbia Heights performance parking districts. Staff processed all data from the Columbia Heights data collection portion of the project, coordinated with DDOT staff to identify the required elements in the report, prepared a draft report and accompanying graphics and data tables for DDOT review, and prepared a final report, which addressed DDOT questions raised in the draft review. It was agreed by both DDOT and TPB staff that the Columbia Heights parking report would serve as a good template for future reports to be developed in support of these parking analyses.

During the period, staff also met with two members of the D.C. City Council on separate occasions to brief them on these data collection efforts. These briefings with the Hon. Jim Graham and the Hon. Tommy Wells were conducted at the request of DDOT staff.

It is anticipated that staff will complete processing and analyzing all data the Ward 6/Nationals Ballpark performance parking district and prepare a final report during September.

6. 2009 Automobile Travel Time Survey

As Spring / Summer 2009 traffic volume counts will be converted to a database, staff worked with the consultant in designing the format of the system.

7. Unprogrammed

No work activity specified.

8. Purple Line/Return to L'Enfant Conformity Assessment

Staff prepared travel demand input files for the conformity analysis of the 2009 CLRP and FY2010-2015 TIP amendments to include the Purple Line Light Rail in Maryland and the transportation components of the Return to L'Enfant development in the District of Columbia. This included production of land activity inputs and highway and transit network development files for 2010, 2020, and 2030 forecast years. Emissions work included developing estimates for ozone season (VOC and NOx) and fine particles (direct PM 2.5 and precursor NOx) pollutants. Staff completed the draft conformity report in anticipation of presenting it to the TPB Technical Committee at the beginning of September. Since both MDOT and DDOT projects are contained within this plan update, the effort is jointly funded with MDOT.

B. **MARYLAND**

1. Program Development /Management

Staff continued coordination with MDOT and MD SHA staff regarding initiation and execution of FY2010 work program activities.

2. Miscellaneous Services

Staff responded to a number of MD SHA data requests, delivering specialized model files and air quality conformity documents in a timely manner. The delivered files are being used in ongoing MD SHA project work.

3. MDOT Training / Technical Support

Staff reviewed documentation reports, e.g., draft environmental impact study, alternatives retained for detailed study, for various project planning studies in Maryland.

4. SHA-Western Mobility/Capital Beltway Studies

No work activity during the reporting period.

5. MTA-Corridor Cities Transit way / Purple Line Transit

Staff prepared travel demand input files for the conformity analysis of the 2009 CLRP and FY2010-2015 TIP amendments to include the Purple Line Light Rail in Maryland and the transportation components of the Return to

L'Enfant development in the District of Columbia. This included production of land activity inputs and highway and transit network development files for 2010, 2020, and 2030 forecast years. Emissions work included developing estimates for ozone season (VOC and NOx) and fine particles (direct PM 2.5 and precursor NOx) pollutants. Staff completed the draft conformity report in anticipation of presenting it to the TPB Technical Committee at the beginning of September. Since both MDOT and DDOT projects are contained within this plan update, the effort is jointly funded with MDOT. Since both MDOT and DDOT projects are contained within this plan update, the effort is jointly funded with DDOT.

6. Project Planning / Feasibility Studies

No activity to report during the reporting period.

7. Managed Lanes-Planning

Staff coded networks and executed travel demand modeling using an expanded network of HOT lanes in Maryland. The most recent network consists of additional tolled facilities on US 50 and Eastern Capital Beltway between I-95 and US 50. Staff documented the modeling results in a draft memorandum which will be presented to MD SHA staff in September. In addition, staff coded a more extensive network of HOT lanes that includes the entire Capital Beltway in Maryland, US 301, MD 5, MD 4, and MD 210.

8. Traffic Impacts

No activity to report during the reporting period.

9. Project Evaluation

No activity to report during the reporting period.

10. Statewide Travel Demand Model

No activity to report during the reporting period.

11. Development/Refinement of Technical Methods

Staff finalized the guidance memo ( begun in FY2009) on using the regional travel demand model in analyzing traffic impact studies.

12. Monitoring Studies

No activity to report during the reporting period.

13. Transportation Land Use Connection (TLC)

The application deadline for FY 010 projects in Maryland was extended to July 10. Additional Maryland projects, selected from the new applications and funded with funds from the Maryland Technical Assistance Account, will be selected in September.

14. Phase II – Evaluation of the Metrobus Priority Corridor Network

This project provides partial funding for the consultant study to evaluate the Metrobus Priority Corridor Network. See the progress report on this study under WMATA work activity D.3. below.

D. **VIRGINIA**

1. Program Development

No activity to report during the reporting period.

2. Miscellaneous Services

Staff fulfilled a data request of B. Jamei (VDOT) for TPB staff to provide VDOT staff with the following items:

- Round 7.2 Cooperative Forecast by TAZ;
- Version 2.2 of the COG/TPB Travel Forecasting Model including highway and transit networks, input, control, support and TP+ script files and software to run the demographic sub-models and accomplish trip generation, trip distribution, mode choice, and trip assignment for the three time periods for the simulation years of 2002, 2009, 2010, 2020, and 2030 from the 2009 CLRP/FY10-15 TIP;
- Script files used in traffic assignment to separate SOV, HOV2+, HOV3+, trucks and airport passenger volume on each link or a loaded link file containing this information for each analysis year; and
- Appropriate flow charts and supporting documentation.

3. Northern Virginia HOV Facilities Monitoring and Data Collection

The I-66 Outside the Beltway Corridor Count project was carried out as a VDOT Technical Assistance project in the TPB's Fiscal Year 2009 Unified Planning Work Program (UPWP). The report titled Analysis of AM Peak Period Inbound Travel in Northern Virginia's I-66 Corridor Outside the Beltway in the Fall of 2008 examined the overall volume of vehicle, person and transit passenger movements crossing a screen line located outside the Capital Beltway from Braddock Road in the south to Idylwood Road in the north of the I-66 corridor.

COG staff wrote a 24-page report analyzing total inbound persons travel past the screen line during the morning peak period (6:30am to 9:30am). Staff prepared a map showing count locations and tables showing total inbound vehicle trips by mode (SOV, HOV2+, HOV3+), total transit trips, vehicle occupancies, and passenger volume by lane and lane hour.

Work completed in July and August included making changes suggested by NVTC and VDOT staff and revising charts to correct errors resulting from using an incorrect peak period calculation. In addition, NVTC requested changes in the counting location of VRE passengers on the Manassas line. Staff submitted a final draft to NVTC on August 10, 2009.

This study complements three previous corridor count projects requested by NVTC and funded by VDOT over the last three fiscal years to analyze peak period transit ridership and auto travel at screen lines inside the Beltway in the I-66 (FY 2006) and I-395 (FY 2007) corridors and outside the Beltway in the I-95 (FY 2008) corridor.

4. High Occupancy / Toll (Hot) Lane Analysis I-95 / 395 Corridor

No activity to report during the reporting period.

5. Travel Forecast Model Refinements

No activity to report during the reporting period.

6. Data Mine State of the Commute Survey

No activity to report during the reporting period.

7. Phase II - Evaluation of the Metro Bus Priority Corridor Network

This project provides partial funding for the consultant study to evaluate the Metrobus Priority Corridor Network. See the progress report on this study under WMATA work activity D.3. below.

D. **WMATA**

1. Program Development

The program manager reviewed the projects in the technical assistance program.

2. Miscellaneous Services

TPB staff provided travel demand and network data as requested for the WMATA Regional Transit System Plan project

3. Phase II – Evaluation of the Metrobus Priority Corridor Network

In the months of July and August, the consultant team continued work on schedule on this analysis. They performed an assessment of potential time savings due to runway improvements based on examples of BRT throughout the United States. Additionally, the model and transit networks were updated in preparation for the Analysis. Finally, the network segments were segmented and assigned different land use profiles to better accurately represent the types of improvements to be applied to the bus services. TPB staff continued to provide limited technical services to WMATA and the selected consultant team in support of this project. Staff facilitated a meeting of the study's Technical Advisory Committee and participated in meetings and conference calls. Staff also reviewed and approved invoices from the consultant and reviewed consultant work products. Analysis is expected to begin in September, with the results of the full-build scenario expected mid-month.

4. Analyze Bus Passenger Survey Trip Origins and Destinations

No activity to report during the reporting period.

5. Collection of Bus Passenger Counts

No activity to report during the reporting period.

7. **CONTINUOUS AIRPORT SYSTEM PLANNING (CASP) PROGRAM**

A. Process 2009 Air Passenger Survey

Staff developed and released the RFP for consultant services to support data collection for the 2009 air passenger survey. Staff coordinated the technical review of all proposals received in response to the RFP and coordinated the recommendation of the selection committee of the most qualified firm to support this activity. WB&A Market Research was awarded the contract based on the recommendation of the selection committee composed of personnel from the Maryland Aviation Administration, Metropolitan Washington Airports Authority, and COG/TPB staff. Following selection of WB&A, staff began initial coordination activities with WB&A personnel in preparation for the survey.

Staff also reviewed the final draft questionnaire and survey schedule with the Aviation Technical Subcommittee at its July meeting. Following this review, staff prepared the final questionnaire and began soliciting bids from qualified printing companies.

B. Ground Access Forecast and Element Updates

1) Update Air Passenger Ground Access Forecasts (Phases 1 and 2)

Staff distributed and presented the draft final report containing ground access forecasts by mode and time of day at the July meeting of the Aviation Technical Subcommittee. These forecasts were developed using data from the 2007 Washington-Baltimore Regional Air Passenger Survey and the latest household and employment forecasts for the Air System Planning Area. Following this review, staff posted the final ground access forecast report on the COG/TPB website

2) Ground Access Element Update

Staff continued identifying and reviewing ground existing and planned ground access facilities as part of the supply analysis component of the Ground Access Element Update.

C. Ground Access Travel Time Study

No activity to report during the reporting period. This project has not yet started.

Other CASP Activities

No activity to report during the reporting period.

**CONSULTANT SUPPORT**

1. Cambridge Systematics, Inc. – Technical Assistance – Travel Demand Model Development and Application - \$150,000.
2. Cambridge Systematics, Inc – Analysis of Financial Resources for the 2010 CLRP for the Washington Region - \$100,000.
3. MCV Associates- Traffic Count Program - \$60,000.

**FY 2010 TRANSPORTATION PLANNING BOARD  
COG/TPB BUDGET EXPENDITURE SUMMARY  
FY-TO-DATE AUGUST 31, 2009**

09/29/2009

	<b>BUDGET TOTAL</b>	<b>FUNDS EXPENDED</b>	<b>% FUNDS EXPENDED</b>
<b>1. PLAN SUPPORT</b>			
A. Unified Planning Work Program (UPWP)	70,700.00	13,015.27	18%
B. Transportation Improvement Program (TIP)	151,700.00	41,597.35	27%
C. Constrained Long-Range Plan	638,400.00	76,200.69	12%
D. Financial Plan	134,000.00	6,060.28	5%
E. Public Participation	343,900.00	49,902.65	15%
F. Private Enterprise Participation	18,300.00	260.65	1%
G. Annual Report	80,100.00	2,135.47	3%
H. Transportation / Land Use Connection Program	465,000.00	30,993.65	7%
I. DTP Management	452,100.00	30,313.53	7%
<b>SUBTOTAL</b>	<b>2,354,200.00</b>	<b>250,479.55</b>	<b>11%</b>
<b>2. COORDINATION PLANNING</b>			
A. Congestion Management Process (CMP)	155,000.00	29,125.42	19%
B. Management, Operations & ITS Planning	390,300.00	51,714.79	13%
C. Emergence Preparedness Planning	75,400.00	8,946.52	12%
D. Transportation Safety Planning	100,000.00	9,781.76	10%
E. Bicycle and Pedestrian Program	108,700.00	16,177.55	15%
F. Regional Bus Planning	100,000.00	23,783.38	24%
G. Human Service Transportation Coordination Planning	114,800.00	17,351.19	15%
H. Freight Planning	130,000.00	21,722.18	17%
	<b>1,174,200.00</b>	<b>178,602.78</b>	<b>15%</b>
<b>3. FORECASTING APPLICATIONS</b>			
A. Air Quality Conformity	563,200.00	74,646.81	13%
B. Mobile Emissions Analysis	640,100.00	101,719.80	16%
C. Regional Studies	315,800.00	51,058.89	16%
D. Coord. Cooperative Forecasting & Trans Planning	726,800.00	78,297.90	11%
<b>SUBTOTAL</b>	<b>2,245,900.00</b>	<b>305,723.40</b>	<b>14%</b>
<b>4. DEVELOPMENT OF NETWORKS AND MODELS</b>			
A. Networks Development	769,700.00	107,234.18	14%
B. GIS Technical Support	548,800.00	87,598.16	16%
C. Models Development	1,221,200.00	143,470.33	12%
D. Software Support	178,900.00	8,722.81	5%
<b>SUBTOTAL</b>	<b>2,718,600.00</b>	<b>347,025.47</b>	<b>13%</b>

**FY 2010 TRANSPORTATION PLANNING BOARD  
COG/TPB BUDGET EXPENDITURE SUMMARY  
FY-TO-DATE AUGUST 31, 2009**

09/29/2009

	<b>BUDGET TOTAL</b>	<b>FUNDS EXPENDED</b>	<b>% FUNDS EXPENDED</b>
<b>5. TRAVEL MONITORING</b>			
A. Cordon Counts	437,750.00	37,306.22	9%
B. Congestion Monitoring and Analysis	525,000.00	57,013.06	11%
C. Travel Survey and Analysis			
Household Travel Survey	410,000.00	55,641.03	14%
D. Regional Transportation Clearinghouse	267,900.00	25,077.24	9%
<b>SUBTOTAL</b>	<b>1,640,650.00</b>	<b>175,037.57</b>	<b>11%</b>
<b>SUBTOTAL CORE PROGRAM ITEMS 1-5</b>	<b>10,133,550.00</b>	<b>1,256,868.76</b>	<b>12%</b>
<b>6. TECHNICAL ASSISTANCE</b>			
A. District of Columbia	422,050.00	33,765.24	8%
B. Maryland	820,200.00	70,662.69	9%
C. Virginia	529,800.00	2,729.87	1%
D. WMATA	202,099.00	21,795.46	11%
<b>SUBTOTAL</b>	<b>1,974,149.00</b>	<b>128,953.26</b>	
<b>TPB GRAND TOTAL</b>	<b>12,107,699.00</b>	<b>1,385,822.02</b>	<b>11%</b>

**FY 2010 TRANSPORTATION BOARD  
FINANCIAL STATUS OF TECHNICAL ASSISTANCE**

09/29/2009

FY-TO-DATE AUGUST 31, 2009

SUPPLEMENT 1

	COST CODES	TOTAL AUTHORIZED BUDGET	TOTAL EXPENDITURES	FTA/STA/LOC AUTHORIZED BUDGET	EXPENDITURES	PL FUNDS/LOC AUTHORIZED BUDGET	EXPENDITURES
<b>A. District of Columbia</b>							
1. Program Development, Data Requests & Misc. Services	040	17,500	10,156.81	1,574	913.66	15,926	9,243.14
2. DDOT Traffic Counts	041	150,000	1,736.96	13,493	156.25	136,507	1,580.71
3. Bicycle Counts	042	70,000	0.00	6,297	0.00	63,703	0.00
4. Phase II - Evaluation of the Metrobus Priority Corridor Network	043	33,000	0.00	2,969	0.00	30,031	0.00
5. DC Ward 6 Ballpark	044	55,800	0.00	5,020	0.00	50,780	0.00
6. 2009 Automobile Travel Time Survey	045	60,000	1,082.25	5,397	97.35	54,603	984.89
7. Unprogrammed	046	3,750	0.00	337	0.00	3,413	0.00
8. Purple Line / Return to L'Enfant Conformity Assessmen	047	32,000	20,789.22	2,879	1,870.38	29,121	18,918.84
<b>SUBTOTAL</b>		<b>422,050</b>	<b>33,765.24</b>	<b>37,966</b>	<b>3,037.65</b>	<b>384,084</b>	<b>30,727.59</b>
<b>B. Maryland</b>							
1. Program Development/Management	060	25,000	5,906.87	2,249	531.36	22,751	5,375.52
2. Miscellaneous Services	061	24,200	0.00	2,177	0.00	22,023	0.00
3. MDOT Training /Technical Support	062	25,000	0.00	2,249	0.00	22,751	0.00
4. SHA-Western Mobility/Capital Beltway Studies	063	31,000	0.00	2,789	0.00	28,211	0.00
5. MTA- Corridor Cities Transit way / Purple LineTransit	064	40,000	20,789.22	3,598	1,870.11	36,402	18,919.11
6. Project Planning / Feasibility Studies	065	132,000	0.00	11,874	0.00	120,126	0.00
7. Managed Lanes-Planning	066	135,000	43,966.60	12,144	3,955.05	122,856	40,011.54
8. Traffic Impacts	067	100,000	0.00	8,996	0.00	91,004	0.00
9. Project Evaluation	068	40,000	0.00	3,598	0.00	36,402	0.00
10. Statewide Travel Demand Model	069	35,000	0.00	3,148	0.00	31,852	0.00
11. Development/Refinement of Technical Methods	070	50,000	0.00	4,498	0.00	45,502	0.00
12. Monitoring Studies	071	50,000	0.00	4,498	0.00	45,502	0.00
13. Transportation Land Use Connection (TLC)	072	100,000	0.00	8,996	0.00	91,004	0.00
14. Phase II - Evaluation of the Metrobus Priority Corridor Network	073	33,000	0.00	2,969	0.00	30,031	0.00
<b>SUBTOTAL</b>		<b>820,200</b>	<b>70,662.69</b>	<b>73,782</b>	<b>6,356.52</b>	<b>746,418</b>	<b>64,306.17</b>
<b>C. Virginia</b>							
1. Program Development	080	8,000	0.00	720	0.00	7,280	0.00
2. Miscellaneous Services	081	18,800	307.40	1,691	27.65	17,109	279.75
3. NVA. HOV Facilities Monitoring & Data Collection	082	315,000	2,422.47	28,336	217.92	286,664	2,204.56
4. High Occupancy / Toll (Hot) Lane Analysis I-95 / 395 Corridor	083	50,000	0.00	4,498	0.00	45,502	0.00
5. Travel Forecast Model Refinements	084	55,000	0.00	4,948	0.00	50,052	0.00
6. Data Mine State of the Commute Survey	085	50,000	0.00	4,498	0.00	45,502	0.00
7. Phase II - Evaluation of the Metrobus Priority Corridor Network	086	33,000	0.00	2,969	0.00	30,031	0.00
<b>SUBTOTAL</b>		<b>529,800</b>	<b>2,729.87</b>	<b>47,659</b>	<b>245.57</b>	<b>482,141</b>	<b>2,484.31</b>
<b>D. WMATA</b>							
1. Program Development	100	10,000	0.00	10,000	0.00	0	0.00
2. Miscellaneous Services	101	24,099	4,031.85	24,099	4,031.85	0	0.00
3. Phase II - Evaluation of the Metrobus Priority Corridor Network	102	100,000	17,763.61	100,000	17,763.61	0	0.00
4. Analyze Bus Passenger Survey Trip Origins & Destinations	103	40,000	0.00	40,000	0.00	0	0.00
5. Collection of Bus Passenger Counts	104	28,000	0.00	28,000	0.00	0	0.00
<b>SUBTOTAL</b>		<b>202,099</b>	<b>21,795.46</b>	<b>202,099</b>	<b>21,795.46</b>	<b>0</b>	<b>0.00</b>
<b>GRAND TOTAL</b>		<b>1,974,149</b>	<b>128,953.26</b>	<b>361,505</b>	<b>31,435.20</b>	<b>1,612,644</b>	<b>97,518.06</b>