

# FY 2020



National Capital Region  
**Transportation Planning Board**

**Work Program Progress Report**

**July & August 2019**

**FY 2020**

METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS

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The TPB approved its FY 2020 Unified Planning Work Program (UPWP) in March 2019. The TPB Work Program Progress Report provides a short summary of each activity for the months of July and August. Please reference the 2020 UPWP for details concerning the approved budget, and work description for each task. The following graphic identifies all the activities in the UPWP.

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Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	\$1,002,493	\$104,855	10%	29

**1. LONG-RANGE TRANSPORTATION PLANNING**

**1.1 Long-Range Transportation Plan**

New staff that manages long-range plan activities continued developing an approach and a draft schedule for the next quadrennial plan update that is expected to be approved in 2022. Staff conducted research and discussed how to increase the robustness of TPBs evaluation of federal performance factors such as resiliency, and of other impacts on the transportation system such as new transportation technologies. Staff also conducted research on best practices for public participation, and communication in long-range plans related to these topics.

Staff also continued to coordinate the implementation of activities related to the aspirational initiatives in Visualize 2045. Staff developed materials, and prepared to brief the TPB State Technical Working Group (STWG), TPB Technical Committee, and the Board on upcoming site visits to engage with the TPB member local governments, and independent transit agencies to encourage, and support them in promoting projects, programs, and policies that advance the Aspirational Initiatives.

**1.2 Federal Compliance**

Staff met with FAMPO to discuss organizational structure/options.

**1.3 Policy Board-Directed Activities**

Staff also continued working on follow-up to TPB Resolution R10-2019 which directed staff to conduct activities related to the implementation of three of the aspirational initiatives:

- Improve walk, and bike access to transit – Staff completed regional analysis to identify a preliminary list of Transit Access Focus Areas. Staff continued to refine a network analysis to identify walksheds around high-capacity transit stations. The Technical Committee was briefed on this work. Staff began preparations for site visits to discuss the preliminary list. Staff also finalized development of an online ‘walksheds analysis’ tool that can be used by anyone in the region.
- Complete the National Capital Trail Network – Staff continued to implement a work program for expanding the regional trail network to cover the entire TPB region, as a network.
- Provide more telecommuting, and other options for commuting – Staff, and partners associated with the Commuter Connections Program prepared for the full launch of the Incentrip app, and conducted other TDM related activities.

COG staff (who are not explicitly TPB staff) worked on activities to address another of the seven initiatives— “Bring jobs, and housing closer together.” Specifically, a Housing Initiative has been underway to identify how to work together as a region to build 100,000 more housing units over the next decade in the region’s Activity Centers. Resolution R10-2019 also encouraged regional coordination activities, led by TPB partners, to promote implementation of the initiatives “Expand bus rapid transit (BRT) regionwide,”, and “Expand the express highway network.”

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$433,982	\$56,183	13%	31

**2. TRANSPORTATION IMPROVEMENT PROGRAM**

**2.1 Transportation Improvement Program (TIP)**

At its meeting on July 12, the TPB Steering Committee approved a resolution to amend the FY 2019-2024 TIP to include funding for five transit projects, as requested by VDOT. TPB staff assisted DDOT with the preparation of an amendment to update project and funding information for the District’s section of the FY 2019-2024 TIP. The TPB was provided with notice of this request for an amendment at its July 24 meeting. Staff also established and managed a 30-day public comment period on the TIP amendment from July 24 through August 23.

TPB staff processed administrative modifications for 9 projects as requested by DDOT, MDOT, and WMATA.

**2.2 TIP Database support**

TPB staff began work under contract with EcoInteractive to implement a replacement for the iTIP database input and review application. Two working groups were established, one for external DOT users and a second for TPB staff. The new platform was officially named the TPB Project InfoTrak system. Staff provided initial data on projects from the TIP, long-range plan, and air quality conformity tables for review by the contractor. Work began on adapting TPB’s project data into EcoInteractive’s data structures.

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Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$2,850,810	\$331,422	12%	33

**3. PLANNING ELEMENTS**

**3.1 Performance-Based Planning**

Staff attended a Mid-Atlantic FHWA/FTA TPM-PBPP Implementation Workshop, and worked on the incorporation of performance-based planning elements into the new project information tracker database, and the next long-range plan.

Staff assisted in follow-up with the federal certification review, and the documentation of performance-based planning responsibilities with neighboring MPOs.

**3.2 Congestion Management Process**

Congestion Management Process (CMP) data compilation, and analysis was undertaken for upcoming Quarterly Reports as well as for impact analysis of the May-to-September maintenance shutdown of a segment of the Metrorail Blue, and Yellow Lines.

Preparations began for development of the upcoming FY2020 Congestion Management Process Technical Report. CMP analysis tool enhancements were explored. Staff joined several webinars related to CMP technical activities.

### ***3.3 Systems Performance, Operations, and Technology Planning***

The August 22 meeting of the Systems Performance, Operations, and Technology Subcommittee (SPOTS) was organized and conducted, discussing Maryland State Police drone use in Traffic Incident Management; Probe Data Analytics Suite applications for measuring road performance in Downtown Washington, D.C.; the Regional Transportation Data Clearinghouse; congestion analysis of the ongoing maintenance shutdown of a portion of the Metrorail Blue, and Yellow Lines; and the recently updated, and web-posted Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA).

Staff participated in the inaugural July 18 and August 14 meetings of the Greater Washington Board of Trade Smart Regions Mobility, and Logistics Solutions Group, contributing SPOTS-related information to this new regional (including COG) collaborative effort.

The third of a series of member agency outreach interviews/site visits for the Systems Performance, Operations, and Technology (SPOT) program, and Subcommittee (SPOTS) was conducted at the offices of Charles County government on August 8, discussing issues and activities of mutual interest, as well as receiving Charles County staff advice on future SPOTS activities.

Staff participated in the August 23 Maryland Department of Transportation CHART Board of Directors meeting in Hanover.

Planning for an FY 2020 TPB forum on connected, and autonomous vehicles continued.

### ***3.4 Transportation Emergency Preparedness Planning***

The regularly scheduled July 10 meeting of the Transportation Emergency Preparedness Committee (R-ESF 1) was organized and conducted, discussing regional transportation emergency preparedness issues.

Staff participated in an August 22 joint telephone interview with DDOT emergency preparedness staff, conducted by FHWA Volpe Center staff, regarding transportation emergency preparedness planning activities in the National Capital Region.

Staff continued to provide technical advice to ongoing COG stakeholder outreach following the November 2018 completion of the Traffic Incident Management Enhancement (TIME) Task Force, Initiative, and recommendations report.

### ***3.5 Transportation Safety Planning***

The regularly scheduled August 13 meeting of the Transportation Safety Subcommittee was organized and conducted. Topics discussed included Quantifying Crash Risks Associated with Driver Behaviors, Using Crowdsourced Data to Estimate Crash Risk, and an Update on the Regional Safety Study.

Staff attended a July 25 work session hosted by Prince George's County Councilmember Anderson-Walker on the topic of potential collaboration among the USAA Insurance Company, and the #DrivingItHome initiative to improve the driving culture in the region.

On August 7, 8 staff participated as a panelist of the Transportation Performance Management (TPM), and Performance-Based Planning, and Programming (PBPP) Implementation Workshop for the Mid-Atlantic Region. The purpose of the FHWA/FTA workshop was to enable peer-to-peer interaction, and information sharing on PBPP activities.

For the Analysis of Regional Roadway Safety Outcomes study, TPB and consultant staff coordinated with officials from MDOT, DDOT, and VDOT to acquire crash data and roadway data. Parallel to the data acquisition efforts, interviews were conducted with three peer MPOs to better understand their safety planning processes.

### ***3.6 Bicycle, and Pedestrian Planning***

The July 16 meeting of the Bicycle, and Pedestrian Subcommittee was organized and conducted, including discussion of progress on data gathering for the Nation Capital Regional Trail project; the TPB Transportation Safety Study; the spring 2019 Street Smart campaign; and the new Baltimore region “Look Alive” pedestrian safety campaign.

Staff attended or participated in the following July/August 2019 events that support current, and future Bicycle, and Pedestrian Planning efforts:

- Prince George’s County Vision Zero launch event at Langley Crossroads, July 25, with a related interview regarding Vision Zero on the Kojo Nnamdi radio show on July 31
- Capital Trails Coalition Steering Committee meeting (in conjunction with the Expand the National Capital Trail project), July 25
- Evaluator tour of DDOT bicycle facilities, August 14
- Annual Association of Pedestrian, and Bicycle Professionals conference in Portland, Oregon, August 24-28.

### ***3.7 Regional Public Transportation Planning***

No meeting of the Regional Public Transportation Subcommittee took place in July or August.

The draft 2018 State of Public Transportation report was presented to the Technical Committee, following which further input was received, and incorporated into the document.

Staff continued engagement in the Bus Transformation Project. A comment letter on the project’s strategy document was drafted, reviewed at the Technical Committee, and approved at the board’s July meeting. Staff attended additional project sessions, and provided comments on draft materials released by the project team.

Staff participated in discussion regarding the Metro 2019 Summer Platform Shutdown work, and its impacts on travel, and transit ridership.

Staff attended the monthly WMATA JCC meeting, and the kick-off of the TPB MARC-VRE Through-Running study (Technical Assistance).

### ***3.8 Freight Planning***

The regularly scheduled July 11 meeting of the Freight Subcommittee was organized, and conducted. Topics discussed included Key Research Findings on Commercial Vehicles Loading/Unloading at Curbs, and Alleys in Urban Areas, a review of the ITE Curbside Management Practitioners Guide, and an Overview of the Baltimore Regional Transportation Board’s Freight Movement Task Force.

In late July, a new chair was identified for the Freight Subcommittee. Staff met with the new chair in August to begin planning for the curbside management themed Freight Subcommittee meeting in September.

### ***3.9 Metropolitan Area Transportation Operations Coordination Program Planning***

The Metropolitan Area Transportation Operations Coordination (MATOC) Program is an operational partnership of the region's major transportation agencies, funded outside the UPWP, but with certain planning support activities provided by TPB staff under this task.

The July 12 MATOC Steering Committee meeting was organized and conducted, continuing discussion of communications, coordination, and Traffic Incident Management topics.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$1,013,150	\$101,958	10%	39

**4. PUBLIC PARTICIPATION**

**4.1 Public Participation and Outreach**

Staff began planning for the next session of the TPB’s Community Leadership Institute, which will be held in late October and early November.

Staff began planning for the update of the TPB’s Public Participation Plan. The update process will take place this fall with board approval expected early in 2020.

The Citizens Advisory Committee met on July 18. At the meeting the committee was briefed on the MARC-VRE Run Through Service Study and updates to the TIP and Air Quality Conformity Analysis. Most of the committee’s time and discussion focused on a discussion with staff about ways to make the aspirational initiatives easier for the public to understand.

Staff started to discuss planning activities related to the update of the long-range plan in 2022 and implementation of Visualize 2045, the plan adopted in 2018.

**4.2 Communications**

TPB News, the TPB’s online newsletter, featured stories on the items related to the TPB agenda in July. The publication was not produced in August.

Throughout the period, TPB staff maintained an active presence on social media.

Staff updated pages on the COG website related to transportation.

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Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$3,140,203	\$292,776	9%	41

**5. TRAVEL FORECASTING**

**5.1 Network Development**

Staff finished developing the base-year (2018) transit network. This network is used as the basis for coding all subsequent transit networks, such as those that are included in the 2020 Amendment to Visualize 2045, the region’s long-range transportation plan. Staff used the base-year transit network to develop transit networks representing year-2019 and 2021 conditions. Although the base-year transit network documentation is still in progress, staff created summary tables that assist with quality control, and quality assurance (QC/QA). Staff updated the bus fare matrix, so that it corresponds to WMATA Tariff #39. Staff also exported and reviewed the 2019 station file, including updating the parking capacity, and parking cost associated with rail station PNR lots. Staff has begun to write the annual network documentation report.

Staff began a survey of large MPOs to determine the techniques used by each MPO for managing, and editing transportation networks use by the travel model. Twenty MPOs have been contacted. Once the work has been completed, the findings will be documented in a memo or report.

Staff uses a customized ArcGIS add-in called COGTools to edit and manage transportation networks. Recently, some users had reported errors associated with exporting the station file. Staff identified the problem, and implemented a quick fix. More updates associated with exporting the station file from COGTools are expected in the coming months.

### ***5.2 Model Development, and Support***

The Travel Forecasting Subcommittee (TFS) met on July 19. The agenda included the following items:

- Status report on the TPB's travel demand forecasting model development activities
  - Gen2/Ver. 2.3 Model updates
  - Gen2/Ver. 2.5 Model status report
  - Gen3 Model status report
- Status on the Air Quality Conformity Analysis of the FY 2021-2024 TIP, and 2020 Amendment to the Visualize 2045 Plan
- Montgomery Co. Planning Department's model network database tool, MCTool
- Lessons learned from the TRB's 17th National Transportation Planning Applications Conference

Prior to the meeting, staff prepared draft meeting highlights from the July TFS meeting.

#### **Production-use, travel demand forecasting model: Generation-2/Ver. 2.3**

Three minor bug fixes were implemented in the Ver. 2.3 Model that do not change model results. This revised model (Ver. 2.3.78) will be used in the upcoming air quality conformity analysis, and will be used as the basis for the future updates to the Ver. 2.3 Model. Staff continued work to prepare model inputs that will be needed for the upcoming air quality conformity analysis. Staff prepared zone-level land use forecasts, including 1) interpolating data at five-year intervals to get yearly intervals, and 2) applying a jurisdiction-based factor to ensure that a consistent employment definition is used throughout the modeled region. Staff also worked to develop exogenous model inputs, including forecasts of airport passenger auto-driver trips.

Using the Ver. 2.3.78 Model as the baseline, staff continued work on two principal refinements to the Ver 2.3 Model: 1) Revising the trip distribution process for external auto trips; and 2) Recalibrating the regional mode choice model with updated Virginia commuter rail trip targets. Both revisions are envisioned to be combined into an updated production model (Ver. 2.3.79 or greater) pending future validation tests. Staff has conducted several base-year (2014) tests, including adjusting bridge penalties, and updating internal trip production rates.

#### **Developmental, travel demand forecasting model: Generation-2/Ver. 2.5**

In June, in consultation with the DTP Director, it was decided that model development work should be shifted away from the Ver. 2.5 Model, and toward the Ver. 2.3 Model. Development of the Ver. 2.5 Model could be resumed at a later point.

#### **Developmental, travel demand forecasting model: Generation-3**

Efforts continue to solicit consultant assistance with this project. The procurement process is still active (RFP #19-015). A technical Selection Committee (TSC) was formed in June, which included representatives from the District of Columbia, Maryland, Virginia, WMATA, and COG/TPB staff. The TSC reviewed the consultant proposals, and scored each proposal according to established guidelines. Initial scoring resulted in a short list of potential vendors. Vendor interviews were held in late August, and early September. Following the interviews, the TSC re-scored the vendor proposals, considering both the vendor proposals, and the vendor interviews. The second scoring resulted in a preferred vendor. The selected vendor will be announced in the future by COG's Contracting Office, after all necessary contracting steps have been undertaken.



Staff continues to develop an inventory of data sets that could be useful for calibrating, and validating the Gen3 Model.

**Other activities**

Staff continued participating in a COG evaluation group that is considering the benefits of new data visualization software, such as Tableau.

Data requests, and model support: Staff serviced eight data requests in July, and August. One was from a local agency; three from academics; and four were from consultants. Requested data included three standard model transmittals (Ver. 2.3.75), the COGTools user’s guide, the 2007/2008 COG/TPB Household Travel Survey, and information from the Regional Transportation Data Clearinghouse, regarding Metro lines/stations, and Round 9.1 Cooperative Forecast data.

Some staff attended the Census Transportation Planning Products (CTPP) training held at COG on Aug. 5, and 6, sponsored by the American Association of State Highway, and Transportation Officials (AASHTO). Staff co-authored a paper that has been submitted to the Transportation Research Board (TRB) for consideration for presentation at the TRB Annual Meeting in Jan. 2020.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$1,978,852	\$244,521	12%	45

**6. MOBILE EMISSIONS PLANNING**

***6.1 Air Quality Conformity***

DTP staff finalized the schedule for the air quality conformity analysis of the FY 2021-2024 TIP, and 2020 Amendment to the Visualize 2045 Plan. The TPB Technical Committee was briefed on the Scope of Work, and project inputs (Item #2), and the TPB approved the project inputs, and the air quality conformity analysis Scope of Work in July (Item #8). As noted above, the Travel Forecasting Subcommittee was also briefed on the air quality conformity analysis project inputs, and Scope of Work (Item #3).

DTP staff shared a memorandum with both the TPB Technical Committee, and the TPB that documented a HOT lanes sensitivity test conducted on behalf of VDOT. The test indicated that the proposed ramp, and shoulder lane modifications to the Beltway HOT lanes had no significant impact on emissions at the regional level. Since the MWAQC-TAC meeting in July was canceled, the memorandum was shared with MWAQC-TAC members via email.

As noted earlier, in support of the air quality conformity analysis modeling process, staff completed network development for the 2019 analysis year, and prepared other model inputs. Staff coordinated with FAMPO, and BMC to include those agencies’ most recent long-range transportation plan projects in the upcoming conformity analysis networks.

Staff provided a brief “Introduction to Air Quality” presentation, and information about the air quality conformity analysis of FY 2021-2024 TIP, and 2020 Amendment to the Visualize 2045 Plan to the Citizens Advisory Committee at its July meeting.

In support of external outreach activities, and working with COG’s Department of Environmental Programs (DEP) staff, DTP staff, and FHWA staff gave a joint presentation on transportation conformity to the Air & Waste Management Association.

Network development staff attended an EcoInteractive (software development company) webinar. EcoInteractive will be developing an interactive online database, expanding greatly on the current “iTIP” process, to coordinate the regional transportation plan, TIP, and conformity inputs, and to provide smoother, and more seamless data collection from the state, and local DOTs, and other implementing agencies.

Staff forwarded July meeting agenda items relating to the air quality consultation elements to all relevant agencies, and public advisory committees in accordance with standard consultation procedures.

### **6.2 Mobile Emissions Analysis**

COG DTP staff continued working closely with COG DEP staff on the development of the base year emissions inventory submittal to EPA as part of the 2015 ozone National Ambient Air Quality Standards (NAAQS) requirements. On the July Emissions Inventory Subcommittee call (Item #2), DEP staff discussed EPA’s responses to the specific questions submitted by MWAQC-TAC members to the EPA in March. These questions, pertaining to the milestone year options, use of vehicle registration data, pollutant list, and pre-hearing document submittal timeline, were submitted to the EPA to obtain the agency sign-off on the methodology, and assumptions for this project in the areas of uncertainty. Upon finalizing input assumptions based on the EPA’s responses, DTP staff conducted mobile emissions modeling for nitrogen oxides (NOx), volatile organic compounds (VOC), and carbon monoxide (CO) for the base year 2017. Furthermore, DTP staff conducted additional MOVES model sensitivity tests to better understand the model output.

DTP staff conducted additional travel demand modeling analysis related to the update of regional greenhouse gas (GHG) inventories. In the months of July, and August, staff completed travel demand modeling work for 2005, and development of mobile-source GHG inventories for all analysis years (2005, 2012, 2015, and 2018).

DTP staff continued to work with DEP staff, member jurisdictions, and state air agencies to facilitate various aspects of GHG planning activities. Specifically, in the months of July, and August, DTP staff prepared a presentation, and additional reference materials for the August meeting of the Montgomery County Climate Action Planning Transportation Technical Workgroup. DTP staff briefed the workgroup on regional GHG planning activities, and provided follow-up information to county staff. DTP staff provided VMT, and vehicle population data to the District Department of Energy, and Environment in support of the District’s GHG-related planning activities. DTP staff also attended the Maryland Commission on Climate Change (MCCC) Mitigation Working Group (MWG) meeting in July.

DTP management, and staff, along with DEP staff, and COG’s executive office representatives, coordinated activities with our members, as well as with other regional councils (COGs), and metropolitan planning organizations (MPOs) regarding the Transportation, and Climate Initiative (TCI). Specifically, DTP staff provided a briefing on the Transportation, and Climate Initiative to the State Technical Working Group (Item #11), and to the TPB Technical Committee in July (“Other Business”). Staff also included a memorandum providing background information on the TCI in the board packet for the July TPB meeting. In addition, DTP staff attended the Transportation, and Climate Initiative workshop in Baltimore (7/30), TCI Reference Case webinar (8/8), and the COG/MPO TCI convening group “TCI 101” webinar (8/13).

In support of national research, DTP staff tested, and reviewed a Congestion Mitigation, and Air Quality Improvement Program (CMAQ) Emissions Toolkit, and provided comments to the U.S. DOT Volpe Center.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$2,458,858	\$269,582	11%	47

**7. TRAVEL MONITORING AND DATA PROGRAMS**

***7.1 Regional Travel Survey***

For the July/August 2019 reporting period, the key tasks were focused on RTS data processing. COG/TPB staff completed cleaning and editing the household, and person files, and began editing the trip files in the RTS. Staff also developed and finalized the RTS weights for the household and person trip files. The list of proposed RTS tabulations was further refined, and was based on input from staff subject matter experts and consultations with Department of Transportation Planning senior leadership. COG/TPB staff also worked with RSG, the survey consultant, to develop the survey plan for a 7-Day Panel survey; a follow-on activity to the RTS, the panel survey will evaluate a data collection technique using smartphone-based technology. Staff also convened a meeting with Baltimore Metropolitan Council, and Westat to reach agreement on how to best combine the results of the Regional Travel Survey, and Maryland Travel Survey.

***7.2 Traffic Analysis Studies, and Research***

Big Data in Regional Travel, and Mobility Analyses

Staff executed a contract with Kimley Horn, and held an internal coordination call. Staff debriefed vendors who competed, but who were not awarded the contract for this project. Staff prepared a briefing on the Big Data Evaluation Project to be presented to the TPB Technical Committee at its meeting in early September.

***7.3 Regional Transportation Data Clearinghouse***

Staff gave a presentation on the RTDC at the TPB Systems Performance, Operations, and Technology Subcommittee (SPOTS) meeting on August 1.

Staff arranged for COG/TPB to host an AASHTO training class for local jurisdictions on using Census Transportation Planning Products (CTPP). Staff conducted registration, managed logistics of the class, and attended the training. More than 30 staff members from across the region attended the training on August 5-6.

Staff added the dataset “Existing High Capacity Transit (HCT) Stations” to the RTDC. The following three layers are included: Existing High Capacity Transit (HCT) Stations, Walksheds: Existing High Capacity Transit (HCT) Stations, and Half-Mile Buffer: Existing High Capacity Transit (HCT) Stations.

Staff worked to add summarized 2019 weekend vehicle classification files, and 2016 hourly vehicle classification data to the RTDC. Staff verified the 2016 regional HPMS file format, and began the process of downloading 2017 HPMS files from FHWA to create a 2017 regional HPMS file. Staff continued work on updating TPB’s transit-related datasets that are used internally (on the G Drive), and shared in the RTDC. This work is ongoing.

Staff attended a webinar on the new data.census.gov portal. Staff continued downloading 2012 to 2016 CTPP data. Staff responded to an inquiry from a possible TPB contractor concerning the difference between Census TAZs, and TPB TAZs.

***7.4 GIS Data, and Analysis***

Staff planned, and participated in the GIS Committee/GDX Working Group meeting on July 30. Highlights of the meeting included: status reports on the NCR-GDX, and CAD2GIS programs, and engaging the Emergency Management community.

Staff delivered a presentation on the map application for existing High Capacity Transit (HCT) stations at the TPB Technical Committee meeting on July 12. In addition, staff attended the TPB Travel Forecasting Subcommittee meeting held on July 19, and the TPB Bicycle, and Pedestrian Subcommittee meeting held on July 16.

Staff attended the Esri User Conference held in San Diego from July 8-12, 2019. Staff attended, and participated in the Towson University GIS Conference (tuGIS) held on August 7-8, and attended ArcGIS Pro training offered in conjunction with the conference.

Staff continued to refine the network buffers/service areas for High Capacity Transit (HCT) stations, part of a larger effort to identify deficiencies, and demand through walkshed analysis of HCT stations. Staff developed a web map, and mapping application for the walksheds of existing HCT stations in the region, and began drafting a memorandum for the September TPB Board meeting on the map application.

Staff created a map of the downtown DC area with Metro lines, and stations, this map was used in a survey about a possible new location for the COG offices.

Staff continued work on developing a draft network of bicycle, and pedestrian facilities used to expand the National Capital Trail. Staff began to prepare a feature class showing beltway cordon count locations.

Staff participated in several DTP-wide meetings—one regarding planning for the quadrennial long-range plan update, and another to discuss the public participation plan for Visualize 2045. Staff attended, and participated in a webinar with representatives from My Sidewalk to learn about the product, and its potential for use as part of Visualize 2045. Staff continued to work with Commuter Connections to provide support for the program’s online routing applications hosted on ArcGIS Online.

Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING	\$1,116,639	\$132,504	12%	51

**8. SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING**

**8.1 Scenario Planning**

Staff conducted several internal coordination meetings with the Plan Development team to discuss how Scenario Planning might be used to support the next plan as well as its increasing role in the core programs.

**8.2 Socioeconomic Forecasting**

To address the TPB Visualize 2045 aspirational initiative to locate jobs and housing closer together, which stemmed from the Long-Range Plan Task Force Initiative to optimize land use and transportation balance, the Planning Directors Advisory Committee continued the COG Board Housing Initiative discussion that supports increasing the amount, and location of more housing in Activity Centers and High-Capacity Transit Station areas. Committee members evaluated final proposed regional housing production targets for the years 2020 through 2030 in advance of the Board Leadership Retreat. Committee members also discussed several technical approaches for developing voluntary local ‘contributions’ to achieve the additional 75,000 units beyond those in the current Cooperative Forecasts.

U.S. Census Bureau staff briefed the Travel Forecasting Subcommittee at its July meeting on upcoming 2020 Census activities and the data product release schedule. Subcommittee members noted that 2020 Census data availability will influence the schedule of future Cooperative Forecasting work currently planned for 2020, and 2021.

The Cooperative Forecasting Committee received a briefing from the Prince William County Planning Department regarding its approach for developing their Cooperative Forecasts, as well as a demonstration of their recently developed GIS-based tool for developing interpolations of small-area (TAZ, and other geographies) Cooperative Forecasts.

Staff briefed members of the Cooperative Forecasting and Data Subcommittee regarding the likelihood of a next Round, and possible timeline for updating the Round 9.1 Cooperative Forecasts.

Staff continued to produce the monthly Regional Economic Monitoring Report (REMS) as a tool to assist in monitoring the accuracy of the Cooperative Forecasts.

Staff acquired updated Global Insight regional forecast data for metropolitan Washington to compare with the Round 9.1 Cooperative Forecasts and the prior Global Insight projections as a means to continue to monitor the accuracy of Round 9.1 Forecasts.

Staff updated the travel model employment definition adjustment factors for Round 9.1a to be applied as scalars across all transportation analysis zones (TAZs), employment types, and base, and forecast years. These factors account for systematic differences in the data sources used by jurisdictions to develop their employment estimates.

Staff researched additional applications of the CoStar commercial real estate data in order to better understand the regional commercial real estate market and existing locations of multi-family housing in COG Activity Centers and High-Capacity Transit Station areas. These analyses will both assist in addressing the COG Board Housing Initiative, and assist local governments with future Forecast updates.

Staff completed geocoding of the recently acquired InfoUSA employment data in order to assist local governments in estimating employment totals, and land use categories at the Transportation Analysis Zone (TAZ) level for their Cooperative Forecasts.

Staff provided geocoded InfoUSA employment data to local government members to analyze current employment patterns, and assist with development of future updates to the local Cooperative Forecasts.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$649,946	\$58,685	9%	55

**9. MOBILITY, and ENHANCEMENT PROGRAMS**

**9.1 Enhanced Mobility Grant Program**

During the month of July, staff disseminated the initial notice about the 2019 Enhanced Mobility Solicitation to all email lists, and presented at the following committee meetings:

- TPB Technical Committee – July 2
- Human Services Policy Committee – July 12
- Region Forward – July 26
- Transportation Planning Board – July 24

Staff finalized applications with Foundant (grants management software), and updated the landing page to reflect COG branding.

During the month of August, staff prepared for the first pre-application conference by finalizing roles, talking points, and materials to be distributed. Preapplication conferences were held on August 1, August 15, August 20.

Staff worked with the Access for All Advisory Committee (AFA) chair to develop the agenda, and prepare for the AFA meeting scheduled for September 5.

**9.2 Transportation Alternatives Set-Aside Program**

The selection panel for Maryland Transportation Alternatives Set-Aside Program applications met on July 8 and identified projects to recommend for funding. For DC, there was no competition for funding, so a panel was not convened. Instead, staff conducted interviews with DC project applicants to ensure the projects met regional goals established by the TPB.

The TPB voted on July 24 to approve TA Set-Aside project recommendations for both Maryland and D.C.

In July, the TPB Steering Committee approved a change in its process that allows the TPB to transfer unspent TA Set-Aside funds to other projects that were previously approved by the TPB. At the same meeting, TA Set Aside funding was transferred to projects in Virginia.

**9.3 Transportation Land-Use Connections Program**

Staff continued the consultant procurement process for the 13 new TLC projects. In July, staff requested proposals from a limited number of firms (3-6 per project). The proposals were due on August 5, staff formed selection panels to review proposals for each of the 13 projects. Members of the panels were asked to review the proposals and submit evaluation scores in September. The projects are expected to begin October.

An intern was hired to work on the TLC Program. Among other things, he will develop and implement a peer exchange event featuring last year’s projects.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB SUPPORT AND MANAGEMENT	\$978,789	\$107,620	11%	57

**10. TPB SUPPORT AND MANAGEMENT**

**10.1 Transportation Planning Board Committee Support and Management and Unified Planning Work Program**

This task included activities not attributable to specific tasks in the work program, however provides overall support for and management of the TPB and UPWP-related activities.

- Provided administrative arrangements (such as preparation and distribution of meeting materials), and staff support for TPB and its various committees, sub-committees, task forces, and special TPB work groups meetings.
- Responded to requests from TPB members, federal agencies, Congressional offices, media, and others for information or data of a general transportation nature.
- Met with TPB Board members and participating agency staff to discuss current and emerging regional transportation planning issues.
- Participated in meetings of other agencies whose programs and activities relate to and impact the TPB work program.
- Coordinated TPB planning activities with Program Directors, day-to-day management and allocation of staff, and financial resources.
- Monitored all work program activities and expenditures.

Staff support was provided for the monthly meetings of the following committees, and sub-committees:

- State Technical Working Group (STWG)
- TPB Technical Committee
- TPB Steering Committee
- Transportation Planning Board (TPB)
- Bicycle & Pedestrian Subcommittee
- Metropolitan Area Transportation Operations Coordination Program (MATOC)
- Regional Public Transportation Subcommittee (RPTS)
- Citizens Advisory Committee (CAC)
- System Performance, Operations, and Technology Subcommittee (SPOTS)

Support activities from the administrative staff included: meeting logistics with meeting rooms and amenities, copying and distribution of meeting materials, email/phone call follow ups. Additionally, staff also worked on monitoring work program activities, providing administrative assistance to senior staff, and monitoring and preparing financial reports. Additionally, administrative staff worked on monthly financial administration and management activity which includes review and finalization of monthly expense reports for all UPWP activities, development and submission of monthly UPWP invoices, and any follow up activity with the funding agencies.

The Staff Director provided overall program management oversight to all the Department’s activities. Work activities the director was involved in during the month of July & August includes:

- Discussion, review, and finalization of the agenda topics for the TPB’s Technical Committee, State Transportation Working Group (STWG), and Board meetings. This includes meeting with the Program Directors and project staff to review the progress, and briefing materials.

- Participated in the STWG, TPB Technical Committee, TPB Steering Committee, TPB's Citizen's Advisory Committee, and the TPB Board meetings.
- Participated in the bi-weekly meetings of the State Safety Oversight/Metro Safety Commission (SSO/MSC) Policy Work Group meetings. This "tri-state" group is working to reconstitute the existing Metro rail safety oversight Committee to comply with the requirement of the FAST Act.
- Participated in the Metropolitan Washington Air Quality Committee.

Other additional activities for the TPB Staff Director for the month of July & August FY 2020 includes:

- FAMPO / TPB Staff Certifications Follow-up
- Meeting with CAOs
- Metro Funding Discussion
- Call w/ Katie Wells – Uber Transportation Research
- Bus Transformation Project Discussion
- CAV Forum Planning
- COG Housing Directors Advisory Committee
- FAMPO Coordination - Meetings with GWRC ED, and FAMPO Director
- COG 2019 Annual Leadership Retreat - Chesapeake / July 19 & 20
- Region Forward Coalition Meeting
- Managed Lanes Transit Work Group Meeting
- Call w/ Adie Tomer (Brookings)
- Travel Patterns/Congestion Discussion w/Lou Peck (Bethesda Magazine)
- Special FAMPO Meeting w/Washington MPO

### ***UPWP***

The UPWP activities include:

- Supervised the preparation, negotiation, and approval of the annual work program, and budget involving the state transportation agencies, the TPB Technical Committee, the TPB Steering Committee, and the Transportation Planning Board.
- Prepared the monthly UPWP progress reports for each of the state agencies administering planning funding, and prepare all necessary federal grant applications submissions.
- Reviewed all monthly UPWP invoices going to each of the state agencies administering planning funding.



Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$1,573,168	\$55,950	4%	59
District of Columbia	\$288,548	\$29,807	10%	59
Maryland	\$641,082	\$8,712	1%	61
Virginia	\$461,312	\$17,431	4%	64
WMATA	\$182,226	\$0	0%	67

**11. TECHNICAL ASSISTANCE**

**11.1 District of Columbia**

Program Development, Data Requests, and Miscellaneous Services

Staff attended the monthly State Technical Working Group, Technical Committee, Steering Committee, and TPB meeting cycle.

Staff met with District Department of Transportation (DDOT) staff to discuss DC Technical Assistance needs. Staff developed a scope of work outlining the tasks involved in supporting the District of Columbia’s Highway Performance Monitoring System.

Traffic Counts, and Highway Performance Monitoring System (HPMS) Support

Staff worked with DDOT staff to plan and participate in the July 24 and August 28 HPMS Committee meetings. Staff presented the CY2019 short-term, and PCS count data. Staff prepared summaries of the meetings which were shared with DDOT staff.

Staff summarized and analyzed the May, June, and July traffic data from PCS, FTMS, and HERE stations, and shared the summaries with DDOT staff for field inspection purposes. Staff reviewed and accepted the remaining short-term counts delivered by the contractor in the spring. Staff reviewed FY2019 Invoice #5 and FY2020 Invoice #1 from the contractor, and submitted them to COG’s accounting division for the processing of payment.

Staff updated the ramp counting program based on the current version of the DDOT ramp GIS file. Staff created a map showing all the sample/NHS sections in the District of Columbia based on the latest DDOT GIS data; then checked the count archive inventory and color coded all the sections with the historical classification counts for future review. This was presented at the August HPMS meeting.

Staff participated in a phone call with DDOT and their contractor ODN to discuss the origins of historical DDOT traffic data.

TIGER Grant Performance Monitoring Addendum

Progress for this item is reported in the Transit Planning section of this progress report.

**11.2. Maryland**

Program Development, Data Requests, and Miscellaneous Services

Staff attended the monthly State Technical Working Group, Technical Committee, Steering Committee, and TPB meeting cycle.

### Feasibility/Special Studies

#### *Traffic Relief Plan (TRP)*

Staff attended the July, and August I-495 & I-270 Managed Lanes Transit Work Group meetings to monitor the project development activities. This workgroup is tied to the I-495 & I-270 Managed Lanes NEPA Study. During these meetings and subsequent to them, staff provided input to the study team regarding the TPB/COG-related planning activities referenced in the presentations.

#### Travel Monitoring/Transportation Performance Measures

Staff attended the August kick-off meeting for the I-270 from I-370 to I-70 pre-NEPA Study to monitor the project development activities.

#### Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, five technical assistance projects in Maryland were fully or partially funded under this PE number. See TLC item above for further details about the TLC Program.

#### MARC-VRE Run Through Analysis

During this time period, this project was focused on background research on through service. The consultant reviewed relevant documents, interviewed key stakeholders, and drafted the first technical memorandum. The Technical Advisory Committee was convened for its second meeting to discuss the background research. Staff conducted bi-weekly coordination calls with the consultant. Staff reviewed, and accepted two invoices for the project; one for work completed in FY 2019, and one for work completed in FY 2020.

### ***11.3. Virginia***

#### Program Development, Data Requests, and Miscellaneous Services

Staff attended the monthly State Technical Working Group, Technical Committee, Steering Committee, and TPB meeting cycle.

Staff participated in a meeting with staff from the Commonwealth of Virginia to discuss plans for the FY 2020 UPWP VA Technical Assistance program.

Staff gathered information on transit operators' relationships with transportation network companies in the region.

#### Travel Monitoring and Survey

For the I-66 Corridor and I-395 Corridor Mode Share Studies, staff prepared and transmitted a draft technical memorandum to VDOT and NVTC. Staff also issued an additional task order to the traffic monitoring contractor to perform two additional counts on the I-66 Corridor. Staff reviewed and accepted the two invoices for this project, and then sent them to COG's accounting division for processing of payment.

Staff reviewed the non-motorized data and report submitted by the contractor. Staff submitted questions to and obtained clarification from the contractor. Staff worked to revise the report. This process is ongoing. Staff approved the Non-motorized count invoice and sent it to COG's accounting division for processing of payment.

#### MARC-VRE Run Through Analysis

This project is funded by Maryland, and Virginia, please see the description under Maryland.

Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, three technical assistance projects in Virginia were fully or partially funded under this PE number. See TLC item above for further details about the TLC Program.

**11.4. Regional Transit/Wmata**

Program Development

Staff attended the monthly State Technical Working Group, Technical Committee, Steering Committee, and TPB meeting cycle.

TIGER Grant Performance Monitoring Addendum

Progress for this item is reported in the Transit Planning section of this progress report.

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**CONTINUOUS AIRPORT SYSTEM PLANNING**

Comprehensive Regional Air System Plan Update – Phases 2, and 3

In coordination with the Metropolitan Washington Airports Authority (MWAA), and the Maryland Aviation Administration (MAA), staff continued to finalize Phase 2 of the Regional Air System Plan (RASP) and begin work on Phase 3.

Process 2019 Air Passenger Survey - Phase 1

During this reporting period, key tasks were performed to prepare for the 2019 Washington-Baltimore Regional Air Passenger Survey.

Staff performed an internal survey pretest, finalized the 2019 Washington-Baltimore Regional Air Passenger Survey instrument, and analyzed OAG Flight data to produce the first sample draw. Staff shared the sample drawing with the Aviation Technical Subcommittee for review.

Staff drafted and finalized the Request for Proposals (RFP) for the 2019 Washington-Baltimore Regional Air Passenger Survey. Staff assembled a Technical Selection Committee (TSC). Staff completed the review and scoring of the RFP submissions.

In coordination with the Metropolitan Washington Airports Authority (MWAA) and the Maryland Aviation Administration (MAA), staff prepared a wide-range of logistics for the upcoming 2019 Washington-Baltimore Regional Air Passenger Survey, including:

- Confirming (and preparing materials for) COG staff presentations at the three airport's September Airline Manager Meetings
- Commencing the badging process for all three airports
- Communicating necessary field office parameters for all three airports

Staff worked closely with the Models Development Team on the review of the 2019 Ground Access Forecast Update.



**FY 2020 TRANSPORTATION PLANNING BOARD  
COG/TPB BUDGET EXPENDITURE SUMMARY**

July/August 2019

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
<b>1. Long-Range Transportation Planning</b>				
Long - Range Transportation Planning	1,002,493.00	104,855.03	104,855.03	10%
<b>SUBTOTAL</b>	<b>1,002,493.00</b>	<b>104,855.03</b>	<b>104,855.03</b>	<b>10%</b>
<b>2. Transportation Improvement Program</b>				
Transportation Improvement Program	263,982.00	43,766.56	43,766.56	17%
TIP Database Support	170,000.00	12,417.00	12,417.00	7%
<b>SUBTOTAL</b>	<b>433,982.00</b>	<b>56,183.56</b>	<b>56,183.56</b>	<b>13%</b>
<b>3. Planning Elements</b>				
Congestion Management Process	613,020.00	81,369.07	81,369.07	13%
Systems Performance, Ops & Tech Planning	659,650.00	78,114.39	78,114.39	12%
Transportation Emergency Preparedness Planning	124,162.00	22,088.78	22,088.78	18%
Transportation Safety Planning	298,785.00	27,019.71	27,019.71	9%
Bicycle & Pedestrian Planning	141,278.00	24,648.25	24,648.25	17%
Regional Public Transportation Planning	322,516.00	23,544.33	23,544.33	7%
Freight Planning	222,293.00	14,468.55	14,468.55	7%
Metropolitan Area Transportation Operation Coord Program Planning	164,580.00	26,905.29	26,905.29	16%
Performance-Based Planning & Programming	304,526.00	33,263.69	33,263.69	11%
<b>SUBTOTAL</b>	<b>2,850,810.00</b>	<b>331,422.06</b>	<b>331,422.06</b>	<b>12%</b>
<b>4. Public Participation</b>				
Public Participation	1,013,150.00	101,958.83	101,958.83	10%
<b>SUBTOTAL</b>	<b>1,013,150.00</b>	<b>101,958.83</b>	<b>101,958.83</b>	<b>10%</b>
<b>5. Travel Forecasting</b>				
Software Support	176,296.00	22,097.95	22,097.95	13%
Network Development	657,578.00	106,897.02	106,897.02	16%
Model Development	2,306,329.00	163,781.82	163,781.82	7%
<b>SUBTOTAL</b>	<b>3,140,203.00</b>	<b>292,776.80</b>	<b>292,776.80</b>	<b>9%</b>
<b>6. Mobile Emissions Planning</b>				
Air Quality Conformity	888,388.00	112,243.31	112,243.31	13%
Mobile Emissions Analysis	1,090,464.00	132,278.44	132,278.44	12%
<b>SUBTOTAL</b>	<b>1,978,852.00</b>	<b>244,521.75</b>	<b>244,521.75</b>	<b>12%</b>
<b>7. Travel Monitoring and Data Programs</b>				
Regional Travel Survey	745,208.00	104,408.45	104,408.45	14%
Traffic Analysis & Research	675,464.00	14,449.90	14,449.90	2%
Regional Transportation Data Clearinghouse	455,937.00	27,948.08	27,948.08	6%
GIS Analysis	582,249.00	122,776.35	122,776.35	21%
<b>SUBTOTAL</b>	<b>2,458,858.00</b>	<b>269,582.77</b>	<b>269,582.77</b>	<b>11%</b>
<b>8. Planning Scenarios and Socioeconomic Forecasting</b>				
Socioeconomic Forecasting	761,012.00	129,778.67	129,778.67	17%
Scenario Planning	355,627.00	2,726.09	2,726.09	1%
<b>SUBTOTAL</b>	<b>1,116,639.00</b>	<b>132,504.76</b>	<b>132,504.76</b>	<b>12%</b>
<b>9. Mobility and Enhancement Programs</b>				
Transportation and Land Use Connections Program	492,958.00	30,334.06	30,334.06	6%
Enhanced Mobility Grant Program	105,634.00	19,354.51	19,354.51	18%
Transportation Alternatives Set-Aside Programs	51,354.00	8,996.93	8,996.93	18%
<b>SUBTOTAL</b>	<b>649,946.00</b>	<b>58,685.50</b>	<b>58,685.50</b>	<b>9%</b>
<b>10. TPB Support and Management</b>				
TPB Support and Management	978,789.00	107,620.27	107,620.27	11%
<b>SUBTOTAL</b>	<b>978,789.00</b>	<b>107,620.27</b>	<b>107,620.27</b>	<b>11%</b>
<b>SUBTOTAL CORE PROGRAM ITEMS 1-10</b>	<b>15,623,722.00</b>	<b>1,700,111.33</b>	<b>1,700,111.33</b>	<b>11%</b>
<b>TECHNICAL ASSISTANCE</b>				
District of Columbia Technical Assistance	288,548.00	29,807.14	29,807.14	10%
Maryland Technical Assistance	641,082.00	8,712.38	8,712.38	1%
Virginia Technical Assistance	461,312.00	17,431.14	17,431.14	4%
WMATA Technical Assistance	182,226.00	0.00	0.00	0%
<b>TECHNICAL ASSISTANCE PROGRAM TOTAL</b>	<b>1,573,168.00</b>	<b>55,950.66</b>	<b>55,950.66</b>	<b>4%</b>
<b>TPB GRAND TOTAL</b>	<b>17,196,890.00</b>	<b>1,756,061.99</b>	<b>1,756,061.99</b>	<b>10%</b>

**FY 2020 TRANSPORTATION PLANNING BOARD  
FINANCIAL STATUS OF TECHNICAL ASSISTANCE**

July/August 2019  
SUPPLEMENT 1

	TOTAL		FTA/STA/LOC		PL FUNDS/LOC	
	AUTHORIZED BUDGET	TOTAL EXPENDITURES	AUTHORIZED BUDGET	FTA EXPENDITURES	AUTHORIZED BUDGET	FHWA EXPENDITURES
<b>A. District of Columbia Technical Assistance</b>						
Program Development & Misc	10,000.00	1,649.06	1,422.89	234.64	8,577.11	1,414.42
Traffic Counts & HPMS Support	235,000.00	28,158.07	33,437.99	4,006.59	201,562.01	24,151.48
Other Tasks	43,548.00	0.00	6,196.42	0.00	37,351.58	0.00
Other Tasks A.4	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks A.5	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks A.6	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks A.7	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks A.8	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks A.9	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBTOTAL</b>	<b>288,548.00</b>	<b>29,807.14</b>	<b>41,057.30</b>	<b>4,241.24</b>	<b>247,490.70</b>	<b>25,565.90</b>
<b>B. Maryland Technical Assistance</b>						
Program Development & Misc	15,000.00	414.45	2,134.34	58.97	12,865.66	355.48
Planning Studies	100,000.00	3,699.38	14,228.93	526.38	85,771.07	3,173.00
Feasibility/Special Studies	50,000.00	0.00	7,114.47	0.00	42,885.53	0.00
Transportation Performance Measures	100,000.00	0.00	14,228.93	0.00	85,771.07	0.00
Training, Misc and Tech Support	20,000.00	0.00	2,845.79	0.00	17,154.21	0.00
Transportation/Land Use Connection Program	260,000.00	0.00	36,995.23	0.00	223,004.77	0.00
Other Tasks	61,082.00	0.00	8,691.32	0.00	52,390.68	0.00
MARC - VRE Runthrough - MD	35,000.00	4,598.55	4,980.13	654.33	30,019.87	3,944.23
Other Tasks	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBTOTAL</b>	<b>641,082.00</b>	<b>8,712.38</b>	<b>91,219.13</b>	<b>1,239.68</b>	<b>549,862.87</b>	<b>7,472.70</b>
<b>C. Virginia Technical Assistance</b>						
Program Development & Misc.	15,000.00	59.21	2,134.34	8.43	12,865.66	50.79
Travel Monitoring	148,000.00	12,773.38	21,058.82	1,817.52	126,941.18	10,955.86
Travel Demand Modeling	38,000.00	0.00	5,406.99	0.00	32,593.01	0.00
Sub-regional Planning Studies	58,000.00	0.00	8,252.78	0.00	49,747.22	0.00
Other Tasks	7,312.00	0.00	1,040.42	0.00	6,271.58	0.00
Transportation Land Use Connections	160,000.00	0.00	22,766.29	0.00	137,233.71	0.00
MARC - VRE Runthrough - VA	35,000.00	4,598.55	4,980.13	654.33	30,019.87	3,944.23
Other Tasks	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks C.9	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks C.10	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBTOTAL</b>	<b>461,312.00</b>	<b>17,431.14</b>	<b>65,639.78</b>	<b>2,480.27</b>	<b>395,672.22</b>	<b>14,950.88</b>
<b>D. WMATA Technical Assistance</b>						
Program Development & Misc	5,000.00	0.00	5,000.00	0.00	0.00	0.00
Other Tasks	177,226.00	0.00	177,226.00	0.00	0.00	0.00
Other Tasks D.3	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks D.4	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks D.5	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks D.6	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks D.7	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks D.8	0.00	0.00	0.00	0.00	0.00	0.00
Other Tasks D.9	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBTOTAL</b>	<b>182,226.00</b>	<b>0.00</b>	<b>182,226.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>GRAND TOTAL</b>	<b>1,573,168.00</b>	<b>55,950.66</b>	<b>380,142.21</b>	<b>7,961.18</b>	<b>1,193,025.79</b>	<b>47,989.48</b>