

**Corpus Christi MPO**

**Annual Performance  
and  
Expenditure Report**

**FY 2018**

## **Task 1 – ADMINISTRATION AND MANAGEMENT**

Include an overall description of the MPO's administration and coordination efforts provided in Task 1. Include all subtasks listed in the UPWP with a description of each subtask product received or work accomplished and agency responsible. If work under a subtask was completed by a consultant/ subcontractor, this should be indicated. If an 'amount expended' has exceeded or is below the 'amount budgeted' by 25% or more, this must be noted in the task funding table and an explanation must be provided for the variance.

### **TASK 1 – OVERALL DESCRIPTION**

Coordinate the transportation planning activities of the MPO with TxDOT, FHWA, and interested public agencies as part of the metropolitan transportation planning process. Maintain records of all activities needed for the comprehensive, coordinated, and continuing (3C) transportation planning process. Take actions to enhance the technical capacity of the planning process and ensure a proactive public involvement process that provides full public access to key decisions in developing both short- and long-range plans and programs.

Six full-time staff members, with the assistance of outside contractors – as needed, performed administrative and technical activities to accomplish the tasks listed in the UPWP. The positions include: one Transportation Planning Director, one Assistant Transportation Planning Director, one System Administrator, one GIS Manager, one Transportation Planner, and one Office Coordinator. Time is allocated to each employee based on the estimate of anticipated scope of each subtask.

### **SUBTASK 1.1 – PROGRAM COORDINATION AND DIRECTION**

This subtask provided the ability to administer, coordinate, and monitor the associated transportation planning activities in the metropolitan area for compliance with federal requirements provided by MAP-21, the FAST Act, subsequent legislation, and TxDOT-CRP. Engaged communication and coordination was maintained with TxDOT, the RTA, Port of Corpus Christi, and representatives of member agencies in the implementation of a coordinated, comprehensive, and continuing transportation planning process for the TMA. Public involvement was solicited for all planning and decision-making. The MPO participated in area-wide activities to retain the attainment status for the Ambient Air Quality Standards. Activities, programs, and project development of regional organizations were monitored for their impact on the transportation network in the MPO area.

#### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Facilitation of the metropolitan transportation planning process for FY 2018, including compliance with all federal and state regulations, requirements, and certifications
- Accurate administrative and financial records of planning activities
- Contracts and agreements between the MPO and subcontractors and/or partner agencies
- Proactive and continuous public involvement to ensure that planning activities are responsive to community values and needs
- Non-lobbying participation in the Association of Metropolitan Planning Organizations (AMPO) and Texas Metropolitan Planning Organizations (TEMPO)

### **SUBTASK 1.2 - UNIFIED PLANNING WORK PROGRAM (UPWP) DEVELOPMENT**

This subtask provided for the cooperative development of a UPWP for FY 2018 describing transportation planning activities that were scheduled for completion by MPO staff, member agencies or consultants. The UPWP illustrated task objectives, tangible products expected, previous work, and the cost and funding sources for these activities. The MPO TAC and TPC was involved in the development and approval of the draft and final document.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- A compliant FY 2018 UPWP that captures transportation planning tasks
- Periodic amendments as required to reflect planning priorities within the MPO area

**SUBTASK 1.3 – MONTHLY BILLING AND FINANCIAL MANAGEMENT**

This subtask provided for the timely preparation of monthly billing reports; the timely submittal of invoices to TxDOT for reimbursement of transportation planning funds; and preparation of the end-of-year Annual Performance and Expenditure Report (APER), a comparing performance to fiscal year goals.

The MPO allocated funding (\$6,000) for an independent review of the cost allocation plan to review direct and indirect costs associated with the fiscal agent's services, evaluate the level of value received and to validate fees paid to the fiscal agent.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Monthly expenditure reports
- Final annual billing, Annual Performance & Expenditure Report (APER), and Annual Project Listing (APL is a listing of completed TIP projects) to be submitted to TxDOT in December

**SUBTASK 1.4 – STAFF TRAINING AND EDUCATION**

This subtask supported staff training and education related to federal and state regulations, transportation planning technologies, best practices, and activities within our industry and of other MPOs. New and changing federal regulations and reauthorizations required that staff be informed to develop and maintain a responsive transportation planning program.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Participation by MPO staff in state and national conferences, seminars, training workshops, workgroups, and webinars through entities including, but not limited to, TxDOT, FHWA, FTA, EPA, Texas Transportation Institute, Association of Texas MPOs (TEMPO), Association of MPOs (AMPO), American Planning Association (APA), National Association of City Transportation Officials (NACTO), New Partners for Smart Growth, various supporting educational institutions (NTI, NHI, TRB, universities, etc.) and software suppliers (ESRI, Caliper, etc.)

**SUBTASK 1.5 – COMMUNITY PLANNING AND DEVELOPMENT ACTIVITIES**

This subtask provided for MPO participation in key community stakeholder and member agency meetings in support of community planning activities, including: City of Corpus Christi Planning Commission, City of Corpus Christi Transportation Advisory Commission and its Bicycle & Pedestrian and MobilityCC Subcommittees, San Patricio Rural Rail District, Port of Corpus Christi Authority, municipalities, RTA board and subcommittee meetings, other transportation providers, and business associations to stay informed of trends and activities in the region that will impact the transportation network. The MPO staff provided data and technical support as needed to organizations participating in the MPO transportation planning process to facilitate informed decisions. The MPO sought input for reviews and changes of the Federal Functional Classifications, consult as appropriate with State and local agencies responsible for land use management, natural resources, environmental protection, conservation, and historic preservation in developing long-range transportation plans.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Participation in a variety of community stakeholder and member agency planning activities

## **SUBTASK 1.6 – WEBSITE MANAGEMENT**

This subtask provided the maintenance of a dynamic and engaging website that fosters public participation in the MPO transportation planning process and accommodates the needs of users with a range of abilities.

### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- A website for the Corpus Christi MPO that is HTML5 and CSS3 based and conforms to the World Wide Web Consortium (W3C) guidelines: WCAG 2.0 (Website Content Accessibility Guidelines) and ATAG 2.0 (Authoring Tool Accessibility Guidelines). The World Wide Web Consortium is an international community that includes a full-time staff, industry experts, and several member organizations. These groups work together to develop standards for the World Wide Web. The MPO site was tested quarterly for accessibility compliance through online W3C validators. Additionally, the MPO continuously tested performance on various desktop and mobile devices using current popular Web browsers
- Comprehensive redesign of the Corpus Christi MPO and Coastal Bend in Motion (the Website for our Strategic Plan for Active Mobility) websites. The new sites offered individuals with vision impairments assistive technology (which can be obtained from a third-party source) that allows individuals with disabilities to enlarge type or have Web content read aloud for Windows and Mac OS users
- Accessibility of MPO planning products as well as timely information about opportunities to engage in ongoing planning activities

## **SUBTASK 1.7 – PUBLIC OUTREACH**

This subtask included production of public outreach tools and techniques that enhance public involvement and assist the TPC and TAC in making informed transportation decisions. Title VI target populations that are a particular priority in terms of garnering public input in the planning process. The MPO consulted with state and local agencies responsible for land use management, natural resources, environmental protection, conservation, and historic preservation when developing the MTP and TIP.

The MPO provided citizens, public agencies, public transportation employees, freight shippers, freight transportation services, private providers of transportation, public transportation consumers, pedestrians, cyclists, individuals with disabilities, and other interested parties with a reasonable opportunity to comment on the MTP, TIP, and other major plan revisions. The MPO actively sought out input from community-based transportation advocacy groups such as the I-69 Alliance, economic development agencies, San Patricio Rural Rail District, and others to keep current on community needs, plans, and priorities.

The MPO maintained compliance with Senate Bill 1237, Section 1. Subchapter D, Chapter 472, Section 472.036, related to internet broadcasts of open meetings held by the policy board, through a partnership with the City of Corpus Christi.

### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Maintenance of a Public Participation Plan, including policies related to environmental justice and Title VI of the Civil Right Act, that complies with federal guidance and includes Limited English Proficiency provisions
- Overhaul MPO's contact database in an effort to expedite outreach efforts
- Publication of 30-day public notice periods/calls for comment as prescribed by state and federal guidance in association with plan amendments and funding opportunities/awards, including the FY 2019 – 2020 Transportation Alternatives (previously Transportation Alternatives Program – TAP) for which the call for projects was issued during FY 2018
- Publication of legal notices in publications of regional circulation, as appropriate
- Public presentations in various community forums about the MPO planning process and specific ongoing strategic planning initiatives

- Documentation of media coverage of MPO activities as well as documentation of participation in community forums
- Public access—in person and via live broadcast—to meetings of the MPO’s Transportation Policy Committee (TPC)

**SUBTASK 1.8 – PROGRAM EVALUATION**

This subtask allowed staff to evaluate and maintain compliant policies and practices related to various MPO requirements, including but not limited to public participation, Title VI, and LEP policies and procedures.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Evaluation of MPO processes in an effort to fairly distribute the benefits and burdens of transportation investments, eliminate participation barriers, and engage minority and low-income populations in transportation planning decisions.
- Continued implementation and refinement of performance metrics to inform project prioritization and assess the functionality of the regional mobility system overall

**Task 1 - Funding Summary**

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$385,508	\$339,708.38	\$45,799.62	88.120%
Local Planning Funds				
FTA (Sec. 5309)				
CMAQ				
STP MM				
<b>TOTAL</b>	<b>\$385,508</b>	<b>\$339,708.38</b>	<b>\$45,799.62</b>	<b>88.120%</b>

**Task 2 – DATA DEVELOPMENT AND MAINTENANCE**

Include an overall description of the MPO’s data development and maintenance activities provided under Task 2. Include all subtasks listed in the UPWP with a description of each subtask product received or work accomplished and agency responsible. If work under a subtask was completed by a consultant/ subcontractor, this should be indicated. If an ‘amount expended’ has exceeded or is below the ‘amount budgeted’ by 25% or more, this must be noted in the task funding table and an explanation must be provided for the variance.

**TASK 2 – OVERALL DESCRIPTION**

The metropolitan planning process involves extensive use of various forms of data including: population, income, household size, employment, car ownership, street configuration, street capacity, traffic counts, land use and much more. In this task, the MPO, as a source of these data, coordinates with other local, state, and regional entities in developing and updating information needed for transportation planning and development. The MPO provides access to data from the MPO-maintained website, including a GIS database for use in the development

of the MTP, TIP, 10-year project projections, Title VI Civil Rights and Evaluation Guidelines, and other reports and studies that are produced by the MPO.

### **SUBTASK 2.1 – MPO GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE MANAGEMENT**

This subtask provided for the staff to manage and update the GIS database as part of the MPO's continuous planning process. MPO staff utilized geospatial data in nearly every aspect of our technical work. As such, MPO staff continuously developed, managed, and maintained various feature classes, datasets, and GIS data layers in support of the MPO's technical planning functions.

The MPO acquired, aggregated, reviewed, and formatted data in a geospatial format to inform internal planning processes and the activities of the broader planning community. Analysis of the 2010 census demographic and land use data was performed for the geographic distribution and aggregation. The MPO coordinated with local and state agencies to develop trend data on changes in land use through the analysis and review of existing demographic data.

#### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- The GIS system provided data layers for the completion of the Strategic Plan for Active Mobility (SPAM) Phase I and Phase II
- Staff maintained an up-to-date GIS database that incorporates Census Bureau and Census Transportation Planning Package (CTPP) 2010 data, Traffic Analysis Zone (TAZ) data, and the Travel Demand Model database
- The enhanced GIS system provided a review of projects in the MTP and TIP utilizing EJScreen and NEPAassist to identify potential environmental issues

### **SUBTASK 2.2 – MPO HARDWARE AND SOFTWARE MAINTENANCE**

This subtask supported the efficient operation of the MPO network office systems and facilitates data sharing with other regional entities.

The system administrator assured the working order of all computers and supporting systems. The MPO and member agencies jointly developed land use, demographic, employment, and other datasets. This data was exchanged with TxDOT and other regional agencies through network servers and internet connections. The system administrator maintained the Local and Regional Network Server Systems and internet connections for optimal performance and exchange of various data.

Maintenance of the LAN Network System required various annual licensing agreements for proprietary software, GIS server support, and web hosting expenses.

#### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Acquisition and maintenance of the hardware and software required to uphold efficient system functionality so as to accommodate internal work flows and reliable information exchange with external entities
- Hardware purchase: The MPO acquired two 240GB Hard Drives (\$69.99 each), two 512GB Hard Drives (\$124.99) for office computers as well as incidentals and replacement hardware on an as needed basis to maintain efficient operation
- Software purchased: The MPO acquired the following recurring license agreements, services, and software products to maintain efficient operation.
  - Microsoft Exchange Outlook (\$336)
  - Survey Monkey (Gold Plan) (\$360)

- I-Drive Cloud Backup (\$69.50)

**Task 2 - Funding Summary**

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$60,350	\$61,791.07	-\$1,441.07	102.388%
Local Planning Funds				
FTA (Sec. 5309)				
CMAQ				
STP MM				
<b>TOTAL</b>	<b>\$60,350</b>	<b>\$61,791.07</b>	<b>-\$1,441.07</b>	<b>102.388%</b>

**TASK 3 – SHORT RANGE PLANNING**

Include an overall description of the MPO’s short range planning activities provided under Task 3. Include all subtasks listed in the UPWP with a description of each subtask product received or work accomplished and agency responsible. If work under a subtask was completed by a consultant/ subcontractor, this should be indicated. If an ‘amount expended’ has exceeded or is below the ‘amount budgeted’ by 25% or more, this must be noted in the task funding table and an explanation must be provided for the variance.

**Task 3 – OVERALL DESCRIPTION**

In addition to maintaining a TIP that outlines a four-year schedule of transportation improvements for the study area and reflects the planning priorities of federal legislation, the MPO carries out various planning studies to assess the need for other projects that have not yet been identified in the MTP or TIP. Such studies may function to guide capital investments and project prioritization by municipalities and other entities in the MPO area.

**SUBTASK 3.1 - Transportation Improvements Program (TIP) Updates**

Staff maintained and amended the FY 2017-2020 TIP as needed to reflect changes in area priorities, scope, accessibility, and funding for roadways and transit projects. A cooperative interagency input process is part of the public involvement component of this task.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Maintenance of an up-to-date FY 2017-2020 TIP
- Development of FY 2019-2022 TIP

**SUBTASK 3.2 – OPERATIONAL EFFICIENCY AND ACCESS MANAGEMENT**

The MPO strives to identify cost effective transportation improvements, as effective access management and other efficiency measures enhance public safety and reduce social and environmental impacts. Priority corridors and intersections that have issues related to congestion and safety were identified.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Identification of possible access management improvement opportunities to address congestion
- Identification of transportation and traffic improvements that are effective and efficient while enhancing safety and minimizing social and environmental impacts
- Completion of the Padre Island Mobility and Access Management Study to identify mobility and access management issues and develop applicable transportation management strategies for priority corridors on the barrier islands in the MPO area; performed by a consultant using \$240,000 in Category 7 funds

**SUBTASK 3.3 – ACTIVE TRANSPORTATION PLANNING**

The MPO strives to reflect non-vehicular modes of mobility in its transportation planning. This subtask continued to build on the work previously funded by partner entities by assessing the needs of cyclists and pedestrians and the prescription of where and what types of bike and pedestrian infrastructure should be installed by municipalities and other entities within the MPO area.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Creation of various bicycle and pedestrian mobility planning products as subsequent phases of the Strategic Plan for Active Mobility
- Implementation of FY 2019 and 2020 Transportation Alternatives (previously Transportation Alternatives Program – TAP) Call for Projects
- Quarterly updates to online Implementation Status Map depicting build out of the Bicycle Mobility Network

The following table reflects TAP reporting information:

	AGENCY	PROJECT NAME	DESCRIPTION	TOTAL PROJECT COST
FY 2018	City of Corpus Christi	Safe Shelter and Crossing Program	Crosswalk with a shelter area & the provision of a HAWK signal	\$168,520
	City of Portland	Memorial Parkway Hike & Bike Phase 1	Hike & bike trail that connects Wildcat Drive at Memorial Parkway to Billy G. Webb	\$342,106

**SUBTASK 3.4 – FREIGHT OPERATIONAL SAFETY AND SECURITY**

Safe and efficient multi-modal freight mobility is a cornerstone of the regional economy. Expanding rail capacity, enhancing trucking safety, and bolstering the nexus between modes are MPO priorities. The MPO continues to collaborate with regional emergency management partners to explore strategies for mitigating risk associated with freight operations in the face of industrial growth.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Evaluation of strategies for enhancing freight efficiency and minimizing risk on the new Harbor Bridge
- Hosting of FHWA and the Center for Transportation Excellence (CTE) teleconference workshops and webinars related to freight issues, transportation technology, and safety for member agencies and interested public
- Continued collaboration with regional partners to collect freight/destination data to augment the existing Hazardous Material Commodity Flow data set in order to inform whether to voluntarily undertake a routing process for non-radioactive hazardous materials (NRHM)

**SUBTASK 3.5 – TRANSIT COORDINATION**



The MPO strives to support transit services that enhance regional economic growth and universal access to goods and services. The MPO continued to participate and provide technical support to the region's coordination effort in an attempt to ensure that plan recommendations are consistent with current needs and resources of rural providers, the Regional Transportation Authority (RTA), private providers, and the health and human services community. This is an on-going task with MPO staff serving as an engaged stakeholder in the process.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Technical assistance in support of the update and implementation of the Regional Public Transportation Coordination Plan 2017-2021
- Technical assistance in support of the RTA's implementation of virtual fare purchasing and bus tracking as well as a Comprehensive Operational Analysis to evaluate operational efficiency in all aspects of RTA operations

**SUBTASK 3.6 – CONGESTION MANAGEMENT PROCESS (CMP)**

The CMP establishes a systematic process that provides information on transportation system performance and alternative strategies to alleviate congestion and enhance the safety and mobility of people and goods in the Corpus Christi Metropolitan Area.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Acquisition and compilation of traffic count data from multiple sources to inform the evaluation of the degree of congestion on various segments

**Task 3 - Funding Summary**

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$103,993	\$83,980.28	\$20,012.72	80.756%
Local Planning Funds				
FTA (Sec. 5309)				
CMAQ				
STP MM				
<b>TOTAL</b>	<b>\$103,993</b>	<b>\$83,980.28</b>	<b>\$20,012.72</b>	<b>80.756%</b>

**TASK 4 – METROPOLITAN TRANSPORTATION PLAN**

Include an overall description of the MPO's metropolitan transportation plan development activities provided under Task 4. Include all subtasks listed in the UPWP with a description of each subtask product received or work accomplished and agency responsible. If work under a subtask was completed by a consultant/subcontractor, this should be indicated. If an

'amount expended' has exceeded or is below the 'amount budgeted' by 25% or more, this must be noted in the task funding table and an explanation must be provided for the variance.

#### **Task 4 – OVERALL DESCRIPTION**

This is an ongoing task for MPO staff. The 2015-2040 MTP (adopted in December 2014) is fully compliant with MAP-21 and FAST Act planning regulations. MAP-21 requires the development of a transportation plan addressing a minimum twenty-year planning horizon. The plan shall include both long-range and short-range strategies and actions that lead to the development of an integrated intermodal transportation system. The plan shall be reviewed and updated at least every five years in attainment areas. If the MPO area becomes non-attainment for air quality, then the plan shall be revised every fourth year to comply with the State Implementation Plan (SIP). The MPO staff participated in the area wide efforts to retain attainment status for the National Ambient Air Quality Standards (NAAQS). MPO staff participated in the efforts of the City of Corpus Christi Air Quality Committee and the Technical Work Group (TWG) on Mobile Source Emission.

The MPO recognizes that an important part of a compliant MTP entails earnest efforts to begin implementing performance-based planning and project prioritization. MPO staff, member entities, and regional partners have worked collaboratively to identify Performance Measurement Topics and specific Performance Metrics that is used to evaluate progress in each of four Goal Areas for metropolitan transportation improvements. Performance measures will enable the MPO to evaluate the impact and cumulative progress of projects in terms of system operations, efficiency and community benefit.

Key modifications that were outlined in MAP-21 and continued under the FAST Act to set the course for transportation investments include:

**TRANSITION TO PERFORMANCE-BASED PLANNING:** Develop and implement a performance management approach to transportation planning and programming that supports the achievement of the transportation system's performance outcomes.

- MPOs is required to establish and use a performance-based approach to transportation decision making and development of transportation plans.
- Targets address surface transportation performance measures and coordinate with the State and public transportation providers to ensure consistency.
- Performance targets must be established no later than 180 days after the date that the State or public transportation provider establishes performance targets.
- The MPOs structure includes officials of public transportation systems.

**MODELS OF REGIONAL PLANNING COOPERATION:** Promote cooperation and coordination across MPO boundaries and across State boundaries where appropriate to ensure a regional approach to transportation planning, i.e.:

- Agreements that identify how the planning process and planning products are coordinated, through the development of joint planning products, and/or by other locally determined means.
- Across boundaries, coordination may include transportation plans and programs, corridor studies, and projects across adjacent MPO and State boundaries.
- Collaboration with State DOT(s), MPOs, and operators of public transportation on activities such as: data collection, data storage and analysis, analytical tools, and performance-based planning.

With the need for the development of performance measures, the MPO actively engaged in a collaborative process to raise awareness with decision makers on the potential impacts to others when adopting long-range and short-range transportation plans or updates. At the point national performance measures were framed and provided to States for dissemination at the local level, our practice readily dovetailed into establishing performance goals that are consistent and further safety, infrastructure, improve congestion, system reliability, freight movement and other elements that align with MAP-21 and the FAST Act.

**LADDERS OF OPPORTUNITY:** As part of the transportation planning process, identify transportation connectivity gaps in access to essential services.

- Essential services include housing, employment, health care, schools/education, and recreation
- Establishing ladders of opportunity included:
  - MPO and State identification of performance measures and analytical methods to measure the transportation system's connectivity to essential services
  - Use of regional data to identify gaps in transportation system connectivity that preclude access to the public, including traditionally underserved populations, to essential services
  - Development of creative solutions to address those gaps

#### **SUBTASK 4.1 – TRAVEL DEMAND MODEL (TDM) DATA ACQUISITION AND ANALYSIS**

This subtask supported the development of population, income, household, and employment data that are used in the MPO's planning and forecasting processes. The MPO staff produced demographic data sets in increments starting from the base year 2012 up to 2045 forecast year at a traffic analysis zone (TAZ) level. Professional services project with CDM Smith, Inc., initiated during a previous UPWP, was extended into FY 2018 with a new work package known as **On-Call Services for Travel Demand Model Data Development & Implementation.**

##### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Demographic data sets, produced utilizing Census 2010 data, including population, income, household, and employment data in five-year increments
- Various interim data products as part of the planned update of the TDM using the 2012 base year for the forecast year 2045
- Technical support to partners to facilitate effective use of the data generated by the updated model
- Completion of the Strategic Integration (Travel Demand Model) Feasibility Study\* to implement Travel Demand Model enhancements to include factors such as dynamic traffic assignment, time-of-day, intersection control, land use, and transit information. \*(by a consultant using \$460,000 Category 7 funds).

#### **SUBTASK 4.2 - CORPUS CHRISTI METROPOLITAN TRANSPORTATION PLAN (MTP) UPDATES**

MPO staff maintained the 2015 - 2040 MTP by making amendments as required and providing opportunities for the involvement of public officials and citizens. This is an on-going task for MPO staff.

##### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Identification of segments that may merit intervention to address congestion
- Identification of opportunities to partner or leverage public resources into operations and/or maintenance projects
- Identification of locally relevant performance measures amidst state and federal performance measures, when published, that is integrated into the project selection process

#### **SUBTASK 4.3 – TEN-YEAR PLAN**

MPO staff maintained and amended the 10-year Plan as needed to reflect changes in area priorities, scope, accessibility, and funding for roadways and transit projects. The first four-year s of the plan satisfies the requirements of the Transportation Improvement Program (TIP). A cooperative interagency input process was part of the public involvement component of this task. Project recommendation criteria was developed and include consideration of:

- 1) projected improvements to congestion and safety
- 2) projected effects on economic development opportunities for residents of the region
- 3) available funding
- 4) effects on the environment, including air quality
- 5) socioeconomic effects, including disproportionately high and adverse health or environmental effects on minority or low-income neighborhoods
- 6) any other factors deemed appropriate by the planning organization

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Maintain an up-to-date FY 2017-2026 10-Year Plan
- Identify opportunities to partner and leverage public resources for projects

**SUBTASK 4.4 – AIR QUALITY MONITORING**

This subtask provided for the participation in the City of Corpus Christi Air Quality Committee, a coalition of public and private entities that develop strategies to maintain the attainment status for the Ambient Air Quality Standards. This committee participates in studies, public education, and mobile source data collection. The MPO worked with the Pollution Prevention Partnership (PPP), a community outreach program of Texas A&M University – Corpus Christi to make the public aware of regional air quality issues and supported the public outreach efforts for TCEQ and EPA reporting services.

**Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Participation in City of Corpus Christi Air Quality Committee and Technical Working Group on Mobile Sources
- Coordination with the Pollution Prevention Partnership on federal reporting and regional outreach

**Task 4 - Funding Summary**

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$100,106	\$94,602.61	\$5,503.39	94.502%
Local Planning Funds				
FTA (Sec. 5309)				
CMAQ				
STP MM				
<b>TOTAL</b>	<b>\$100,106</b>	<b>\$94,602.61</b>	<b>\$5,503.39</b>	<b>94.502%</b>

**TASK 5 - SPECIAL STUDIES**

Include an overall description of the MPO’s special studies activities provided under Task 5. Include all subtasks listed in the UPWP with a description of each subtask product received or work accomplished and agency responsible. If work under a subtask was completed by a consultant/subcontractor, this should be indicated. If an ‘amount expended’ has exceeded or is

below the 'amount budgeted' by 25% or more, this must be noted in the task funding table and an explanation must be provided for the variance.

## **Task 5 – OVERALL DESCRIPTION**

Special studies are undertaken to enhance the MPO planning process in response to changing priorities. The MPO anticipated an update to the 2010 Travel Speed Study in an effort to gauge the degree of congestion on various segments of streets within the urbanized area.

The MPO anticipates the use of consulting services for the Resilience and Durability to Extreme Weather Pilot Project.

### **SUBTASK 5.1 – TRAVEL SPEED STUDY**

It is necessary for the MPO to maintain an accurate, up to date regional transportation model in order to conform to State and Federal regulations for transportation projects. The MPO maintained and calibrated the Travel Demand Model by using current information on the roadway network, area development, and other relevant characteristics—including travel time and speed data.

The primary purpose of a Travel Speed Study is to evaluate the transportation system and prepare a report that identifies trends in congestion. Such work must be repeated periodically—typically every five years—to continue to meet this objective.

An updated Travel Speed Study developed through the use of professional services (estimated at \$100,000) maps roadways to establish centerlines and records relevant roadway features, including: speed limits, school zone limits, and intersection control information. This study updated the 2003, 2006, and 2010 efforts in order to help elucidate trends in network function was anticipated in FY 2018 however; it was not available in FY 2018.

#### **Work Performed and Status**

Corpus Christi MPO staff performed and completed the following:

- Staff researched resources for travel speed data due to the unavailability of an updated Travel Speed Study. No special study was conducted in FY 2018. Staff coordinated with the Texas Transportation Institute (TTI) to develop a tool to extract congestion related performance metrics from existing and available speed datasets (INRIX).

### **SUBTASK 5.2 – RESILIENCE AND DURABILITY TO EXTREME WEATHER PILOT PROJECT**

In 2018, the MPO initiated administrative functions required to obligate FHWA funding, developed and Advanced Funding Agreement (AFA) between the MPO and TxDOT-CRP for the drawdown of federal funds, arrange for a reimbursement process with MPO's fiscal agent, and procured a coastal engineering service provider to perform the design work funded by FHWA's Resilience and Durability to Extreme Weather Grant.

FHWA grant funds support design work by a consultant for a nature-based solution to enhance the resiliency to extreme weather of Laguna Shores Road along the western shore of the Laguna Madre.

The pilot project is a collaborative effort, wherein MPO's staff will manage an interdisciplinary team of specialized experts from the academic, environmental, non-profit, municipal, and private sectors to:

- Assess baseline habitat and shoreline conditions
- Identify one or more innovative shoreline protection strategies that integrate engineering and ecological (habitat restoration/living shoreline) techniques
- Construct a pilot shoreline protection project as part of the roadway reconstruction project

- Monitor project effectiveness in terms of habitat development and shoreline condition to evaluate the utility of the pilot technique(s) to enhance the durability of other segments of Laguna Shores Road and other, similarly vulnerable transportation infrastructure.

**Work Performed and Status**

- Select the Coastal Engineering Services provider (HDR) for the Resilience and Durability to Extreme Weather Pilot Project
- Discuss, coordinate and manage the project development with HDR, Texas A&M University – Corpus Christi, and Coastal Bend Bays & Estuaries.
- The 10% of Data Gathering and Habitat Assessment has been done in August and September 2018 (the payment was made in October 2018).

**Task 5.0 - Funding Summary**

<b>Funding Source</b>	<b>Amount Budgeted</b>	<b>Amount Expended</b>	<b>Balance</b>	<b>% Expended</b>
<b>Transportation Planning Funds (PL 112 &amp; FTA 5303)</b>	<b>\$ 103,143</b>	<b>\$ 2,186.11</b>	<b>\$ 100,956.89</b>	<b>2.119 %</b>
<b>Local Planning Funds</b>				
<b>FTA (Sec. 5309)</b>				
<b>CMAQ</b>				
<b>STP MM</b>				
<b>TOTAL</b>	<b>\$ 103,143</b>	<b>\$ 2,186.11</b>	<b>\$ 100,956.89</b>	<b>2.119 %</b>

## BUDGET SUMMARY

Include a table showing a recap of the funding amounts budgeted, expended, the remaining balance (if any), and the total percent (%) expended. A 'budget summary' table should be provided for each funding source identified in the UPWP.

### Total Transportation Planning Funds (TPF) Budgeted and Expended for FY 2018

UPWP Task	Amount Budgeted	Amount Expended	Balance	% Expended
1.0	\$385,508	\$339,708.38	\$45,799.62	88.120%
2.0	\$60,350	\$61,791.07	-\$1,441.07	102.388%
3.0	\$103,993	\$83,980.28	\$20,012.72	80.756%
4.0	\$100,106	\$94,602.61	\$5,503.39	94.502%
5.0	\$ 103,143	\$2,186.11	\$100,956.89	2.119%
<b>TOTAL</b>	<b>\$753,100</b>	<b>\$582,268.45</b>	<b>\$170,831.55</b>	<b>77.319%</b>

### Local Planning Funds Budgeted and Expended for FY 2018

UPWP Task	Amount Budgeted	Amount Expended	Balance	% Expended
1.0				
2.0				
3.0				
4.0				
5.0				
<b>TOTAL</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>0 %</b>

### FTA (Sec. 5307) Funds Budgeted and Expended for FY 2018

UPWP Task	Amount Budgeted	Amount Expended	Balance	% Expended
1.0				
2.0				
3.0				
4.0				
5.0				
<b>TOTAL</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>0 %</b>

**CMAQ Funds  
Budgeted and Expended for FY 2018**

<b>UPWP Task</b>	<b>Amount Budgeted</b>	<b>Amount Expended</b>	<b>Balance</b>	<b>% Expended</b>
1.0				
2.0				
3.0				
4.0				
5.0				
<b>TOTAL</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>0 %</b>

**STP – MM Funds  
Budgeted and Expended for FY 2018**

<b>UPWP Task</b>	<b>Amount Budgeted</b>	<b>Amount Expended</b>	<b>Balance</b>	<b>% Expended</b>
1.0				
2.0				
3.0				
4.0				
5.0				
<b>TOTAL</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>0 %</b>