



**Corpus Christi MPO
Annual Performance and Expenditure Report
(APER) FY 2020**

TASK 1 – ADMINISTRATION AND MANAGEMENT

Task 1 Included an overall description of the Corpus Christi MPO's administration and coordination efforts. Included were all subtasks listed in the UPWP with a description of each subtask product received or work accomplished and the agency responsible. If work under a subtask was completed by a consultant/subcontractor, this is indicated. If an 'amount expended' exceeded or is below the 'amount budgeted' by 25% or more, this was noted in the task funding table and an explanation provided for the variance. For FY 2020 no tasks were outside the 25-percent limits.

TASK 1 – OVERALL DESCRIPTION

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

Five 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 Senior Transportation Planner, one System Administrator, one Geographical Information System (GIS) Manager, and one Office Coordinator. Time was allocated to each employee based on an estimate of anticipated scope of each subtask. Contractor assistance may be required during times of staff transition which will be funded in-lieu of salary and benefits.

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 the FAST Act, subsequent legislation, and TxDOT-CRP. Engaged communication and coordination was maintained with TxDOT-CRP, the Corpus Christi Regional Transportation Authority (CCRTA), the Port of Corpus Christi Authority (PCCA), 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.

The material and equipment used to perform this subtask included: Office rent, office furniture/equipment, office supplies & copier, telephone service, cable service, printing of notices and publications, premiums for Workman's Compensation, group insurances, and indirect cost to Nueces County. Local funds were used to pay miscellaneous expenses that cannot be charged to federal funds or for services for which federal funds are not available.

Work Performed and Status

Corpus Christi MPO staff performed and completed the following: Facilitation of the metropolitan transportation planning process for FY 2020, including compliance with all federal and state regulations, requirements, and certifications. These key processes involved the 2045 MTP, 2021-2024 TIP and CMP. We also completed the FY 2021- FY 2022 UPWP.

- Developed and delivered accurate administrative and financial records and reports of the planning activities. Worked with our fiscal agent – Nueces County and TxDOT staff to ensure that information delivered met their reporting needs. With any issues raised by the county or state, we researched and clarified records to ensure all the reported amounts were correct and documented.
- Executed contracts and agreements between the Corpus Christi MPO and vendors and suppliers as well as partner agencies such as the CCRTA for leased building space. These were all routine contracts that continued.
- Reviewed and executed group insurance agreements to make these available for staff.
- Proactive and continuous public involvement to ensure that planning activities are responsive to community values and needs. These efforts were focused on the 2045 MTP, 2021-2024 TIP and CMP as well as the FY 2021-2022 UPWP.
- Non-lobbying participation in the Association of Metropolitan Planning Organizations (AMPO) and Texas Metropolitan Planning Organizations (TEMPO) related to MPO activities for planning products and programs. We attended a few in-person meetings and then virtually after the pandemic restrictions.

SUBTASK 1.2 - UNIFIED PLANNING WORK PROGRAM (UPWP) DEVELOPMENT

This subtask provided for the cooperative development of a UPWP for FY 2021-2022 describing transportation planning activities that are scheduled for completion by Corpus Christi MPO staff, member agencies or consultants. The new FY 2021-FY 2022 UPWP illustrates task objectives, tangible products expected, previous work, and the cost and funding sources for these activities. The Corpus Christi MPO TAC and TPC were involved in the development and approval of the draft and final document. The UPWP was approved on September 3, 2020.

Work Performed and Status

Corpus Christi MPO staff performed and completed the following:

- A compliant FY 2021-2022 UPWP that captured transportation planning tasks.
- Reviewed possible amendments to the prior UPWP as issues arose to reflect planning priorities within the MPO area. These were part of the analysis of monthly expenditures above or below expenditure estimates, but within the 25% limits for UPWP Tasks.
- Reviewed transportation planning activities at the local governments and agencies to determine if the projects or planning activities should be amended into the current UPWP or added to the next UPWP. The most current efforts of local agency activities were added as an appendix to the current FY 2021 – FY 2022 UPWP. Examples were Port of Corpus Christi projects, City of Corpus Christi Area Development Plans, City of Portland CIP and 2040 Plan developments, as well as county planning projects in Nueces and San Patricio County.

SUBTASK 1.3 – MONTHLY BILLING AND FINANCIAL MANAGEMENT

This subtask included 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), comparing performance to fiscal year goals.

The Corpus Christi MPO had proposed to allocate 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. This project was determined to be unwarranted as the services provided by Nueces County were deemed reasonable. The funds for this activity were part of the annual roll-over funds to be reallocated in the FY 2021- FY 2022 UPWP.

Work Performed and Status

Corpus Christi MPO staff performed and completed the following:

- Completed 12 monthly expenditure reports for submittal to the county and TxDOT. Also provided initial and refresher training for MPO staff on these processes.
- Final annual billing, Annual Performance & Expenditure Report (APER) submitted to TxDOT in December 2019 for the prior fiscal year and worked on elements of the APER for FY 2020.
- Reviewed and verified the Annual Project Listing (APL is a listing of completed TIP projects) provided by TxDOT for FY 2019.
- The cost allocation plan project for our Fiscal agent's services was cancelled as discussed in the prior text.

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 require that staff be informed to develop and maintain a responsive transportation planning program.

Work Performed and Status

Corpus Christi MPO staff performed, participated in, and completed the following:

- MPO staff participated in-person and mostly virtually for state and national conferences, seminars, training workshops, workgroups, and webinars through:
 - TxDOT (local government project procedures, current state of curb ramps and pedestrian facilities, TxDOT Yearly Roundtable, TxDOT Freight Strategic Planning Workshop),
 - FHWA (Freight, resiliency, Data Business Plan Guide for Metropolitan Planning Organizations, Introduction to ActivitySim),
 - FTA,
 - EPA (Incorporating Equity in Disaster Mitigation and Climate Adaptation Programs),
 - Texas Transportation Institute (TTI) (Planning process, Workforce Impacts of Transit Automation, TDS Lunch with an Expert),
 - Association of Texas MPOs (TEMPO) (Quarterly Workshops and Meetings),
 - Association of MPOs (AMPO), Yearly Meeting and webinars,
 - American Planning Association (APA) (Navigating an efficient and equitable recovery),
 - TRB (Value Capture for Transportation Funding, Realizing ATSPM Benefits without Added Infrastructure Investment, Infrastructure Roundtable for Economic Development, Living Shorelines to Improve Resiliency, Information Systems to advance Environmental Justice, Moving from measuring to managing air quality, Transportation System Management and Operations),
 - ITE (Prioritizing Safety with Transportation Equity),
 - AASHTO (Environmental Justice Peer Exchange, Safe Streets for All),
 - Volpe Center (Safety Data Initiative),
 - AASHTO Center for Environmental Excellence (Peer exchange on Environmental Justice Analysis Strategies),
 - ENO Center (How Automated Delivery Could Shape the Future of Local Commerce),
 - H-GAC Brown Bag Lunch Webinar (Real-time Traffic Data and Tools),
 - United States Chamber of Commerce (Infrastructure Investments to Speed the recovery) and

- Software suppliers (ESRI, Caliper, PTV) (Multimodal modeling at Meso and Micro levels, Fundamentals of using TREDIS, Forecasting Traffic Impacts of Development, Geospatial Enabled Linear Referencing, Enterprise Data Enhancement) and software suppliers.

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 Mobility CC Subcommittees, San Patricio Rural Rail District, PCCA, municipalities, CCRTA 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, consulted 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:

- Worked extensively with the TxDOT Corpus Christi District on efforts related to roadway projects in various stages of development as well as planning efforts to prioritize projects with various funding categories.
- Participated in member agency planning activities including the Port of Corpus Christi Long-range Planning, Harbor Bridge Project CAB, CCRTA budget workshops, Nueces County CIP plans and possible Master Plans in San Patricio County for the industrial growth expected over the next 20 years.
- Joined the discussions for the City of Corpus Christi for their planning efforts for North Beach, the Island, Flour Bluff, Southside and London Master Plans as well as corridor studies of Northwest Blvd. and PR 22.
- Other local discussions with planners for smaller developments and projects that may impact the regional planning.
- Reclassification of the NHS System through the TxDOT and FHWA process.
- Texas General Land Office (GLO) conducted an Economic Development Strategy and Diversification Study.
- United Corpus Christi Chamber of Commerce Infrastructure Committee meetings.
- Coastal Bend Air Quality Partnership meetings.

SUBTASK 1.6 – WEBSITE MANAGEMENT

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

Work Performed and Status

Corpus Christi MPO staff performed and completed the following:

- An updated website for the Corpus Christi MPO that continues to comply with HTML5 and CSS3 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 tests performance on various desktop and mobile devices using current popular Web browsers.

- The Corpus Christi MPO have installed SSL Certificates on our websites that provides a trust indicator known as “Padlock”. This padlock indicates that the website is secure because of SSL encryption. SSL encryption acts as visual indicator for visitors to believe in the security of the website and share their information on it.
- Comprehensive evaluation and enhancements of the Corpus Christi MPO and Coastal Bend in Motion (the Website for the 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. The corpuschristi-mpo.org website sees over 1,300 visits per month and averages more than 650 downloads. The coastalbendinmotion.org website gets an average of over 500 visits per month.

SUBTASK 1.7 – PUBLIC OUTREACH

This subtask included production of on-going public outreach tools and techniques that enhanced public involvement and assisted the TPC and TAC in making informed transportation decisions. Title VI target populations were 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 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 maintains compliance with Senate Bill 1237, Section 1. Subchapter D, Chapter 472, Section 472.036, related to Live and Archived 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:

- Maintained and used the 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.
- Maintained and updated the MPO’s contact database to expedite outreach efforts.
- Published legal notices in publications of regional circulation, as appropriate for public meetings related to the TIP, MTP, CMP and the UPWP.
- Public presentations and open houses for specific plans such as the 2045 MTP and 2021-2024 TIP and FY 2021- FY 2022 UPWP as well as presentations in various community forums about the MPO planning process and specific ongoing strategic planning initiatives, specifically the CCRTA Board and Committees, City of Portland, City of Corpus Christi, Nueces County and San Patricio County. Additional presentation of the MPO activities to local business groups such as Chambers of Commerce and Economic Development Corporations.

- Documentation of media coverage of MPO activities as well as documentation of participation in community forums for the 2045 MTP and 2021-2024 TIP and CMP as well as the UPWP. Comments were included in the appendices of the documents.
- Public access—in person and via live broadcast—to meetings of the MPO’s TPC. In the pandemic more reliance on email, written comments for documents and processes being developed by the MPO through the TAC and TPC. Public access was always available with appropriate safety precautions of the host building owners.

SUBTASK 1.8 – PROGRAM EVALUATION

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

Work Performed and Status

Corpus Christi MPO staff performed and completed the following:

- Evaluated the 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)	\$401,505.00	\$353,324.16	\$48,180.84	88%
Local Planning Funds	\$0	\$0	\$0	\$0
FTA (Sec. 5309)	\$0	\$0	\$0	\$0
CMAQ	\$0	\$0	\$0	\$0
STP MM	\$0	\$0	\$0	\$0
TOTAL	\$401,505.00	\$353,324.16	\$48,180.84	88%

*The MPO staffing levels were 5 of 6 FTEs from October 1, 2019 through September 30, 2020. We were 1 FTE short so we could evaluate our particular needs for the position related to consultant assistance for the remainder of FY 2020.

TASK 2 – DATA DEVELOPMENT AND MAINTENANCE

Task 2 includes a description of the MPO's data development and maintenance activities provided under this task. All subtasks listed in the UPWP include 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 is indicated. If an 'amount expended' has exceeded or is below the 'amount budgeted' by 25% or more, this is noted in the task funding table and an explanation provided for the variance. Expenditures for FY 2020 were within budgetary limits.

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, bicycle counts, land use and much more. In this task, the MPO, as a source of these data, coordinated with other local, state, and regional entities in developing and updating information needed for transportation planning and development. The MPO provided 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 were 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 production of exhibits, web applications, databases, and coordination efforts with partner agencies related to:

- 2020-2045 Metropolitan Transportation Plan (MTP) Various Exhibits.
- FY 2021-2024 Transportation Improvement Plan (TIP) Various Exhibits.
- Congestion Management Process (CMP) Various Exhibits.
- Coordinated with consultant (CDM Smith) to develop the 2016 and 2045 Travel Demand Model databases.
- Maintenance of an up-to-date GIS database that incorporates the most current American Community Survey data from the Census Bureau, Traffic Analysis Zone (TAZ) data, and the Travel Demand Model data.
- Developed an enhanced GIS database that supported the review of projects within the MTP, TIP, and CMP utilizing TxDOT's Decision Lens to prioritize projects.
- Updated, reviewed, and maintained the Strategic Plan for Active Mobility database and web application.
- Geospatial data coordination with partner agencies to facilitate implementation of the Strategic Plan for Active Mobility.

- Coordinated with partner agencies to review and update the National Highway System (NHS) within the Corpus Christi MPO planning area and provided assessment of roadways that could be added or removed from the system.
- Maintained database and web application for the MPO Traffic Counts Portal.

SUBTASK 2.2 – MPO HARDWARE AND SOFTWARE MAINTENANCE

This subtask supported the efficient operation of the MPO network office systems and facilitated 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

Acquisition and maintenance of the hardware and software was required to uphold efficient system functionality to accommodate internal workflows and reliable information exchange with external entities.

- Reviewed and deferred the acquisition of the Cisco SG200 -24-Port Gigabit PoE Switch (or equivalent) to enhance MPO's network by providing advance features (e.g. Quality of Service) to control network traffic, scaling power usage during periods of reduced network activity, and eliminating the need for some supplemental power connections to other network devices.
- Two trail cameras for bike/pedestrian counting.
- Evaluated the possible use of Sling Studio Hub with battery and camera link to enhance live broadcast of TPC meetings, per state legislative requirements. This was cancelled and the funds used for other computer equipment for staff.
- Review the possibility of acquiring an iPad Pro (or equivalent) to manage video broadcast. This was not be needed at this time. The resources were directed toward other computer equipment for staff.
- Purchased new laptops for Senior Transportation Planner and GIS Manager. In addition, we purchased replacement desktop computers for the Director, and Office Coordinator.

Software:

- Maintained existing license agreements and Web- and cloud-based services, including:
 - Microsoft Exchange Outlook
 - Microsoft Office 365
 - ESRI
 - I-Drive Cloud Backup
 - Survey Monkey

Task 2 - Funding Summary

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$63,960	\$66,820.91	-\$2,860.91	104.47%
Local Planning Funds	\$0	\$0	\$0	\$0
FTA (Sec. 5309)	\$0	\$0	\$0	\$0
CMAQ	\$0	\$0	\$0	\$0
STP MM	\$0	\$0	\$0	\$0
TOTAL	\$63,960	\$66,820.91	-\$2,860.91	104.47%

TASK 3 – SHORT RANGE PLANNING

Task 3 included an overall description of the MPO's short range planning activities. This task included 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 is specified. If an 'amount expended' exceeded or is below the 'amount budgeted' by 25% or more, this is noted in the task funding table and an explanation must be provided for the variance. Expenditures were within budgeted limits.

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 carried out various planning studies to assess the need for other projects that have not yet been identified in the MTP or TIP. Such studies by local governments for the CIP Plans, Master Plans, Area Development Plans, Corridor Studies were used 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 2019-2022 TIP as needed to reflect changes in area priorities, scope, accessibility, and funding for roadways and transit projects. Staff developed a fiscally constrained FY 2021-2024 TIP by prioritizing the projects from 2045 MTP based on the Performance Measures targets, regional significance, and other federally required elements. 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:

- Maintained an up-to-date FY 2019-2022 TIP by processing technical changes as necessary as well as administrative amendments and Transit amendments based on new FTA funding awarded in FY 2020.

- Develop FY 2021-2024 TIP as articulated on the website pages illustrating the process and public meetings and TAC and TPC recommendations and approvals.
- Identified and documented roadway projects being accomplished by local governments and agencies to gain an understanding of the projects and determine if the nonfederal project should be amended into the existing current TIP or wait for inclusion in the next TIP.

SUBTASK 3.2 – OPERATIONAL EFFICIENCY AND ACCESS MANAGEMENT

The MPO worked to identify cost effective transportation improvements, as effective access management and other efficiency measures to 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 in FY 2020:

- Identified possible access management improvement opportunities to address congestion by reviewing local government corridor studies and project development processed. Also met with the City of Corpus Christi Traffic Engineering staff to review their traffic operation center and pavement management system implementation.
- Identified transportation and traffic improvements that are effective and efficient while enhancing safety and minimizing social and environmental impacts as part of area development plans, CIP plans, Master Plans, and implementation of transportation projects.

SUBTASK 3.3 – ACTIVE TRANSPORTATION PLANNING

The MPO continued to work 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:

- Evaluation of ideas for various bicycle and pedestrian mobility planning products as part of the Strategic Plan for Active Mobility in relation to local project being implemented by the local governments through construction projects and planning efforts.
- Quarterly updates were done online Implementation Status Map depicting build out of the Bicycle Mobility Network.
- Held internal discussions to review the Category (CAT) 9 Transportation Alternative Set-aside projects for FY 2021 through FY 2024 as part of the new FY 2021-2024 TIP that was completed.
- Discussed the possibility of the City of Corpus Christi cancelling the Cat 9 FY 2018 Region-wide Bike Blvd Wayfinding Initiative and return the funds for a future MPO project selection process.
- Processed a TIP Amendment for the Cat 9 FY 2017 Portland Bicycle Lanes to FY 2020 (per TxDOT request) for Advanced Financial Agreement.
- Researched the status of TASA funds and prior awards to coordinate information with TxDOT for possibly lapsing federal funds. No lapsing funds were identified for FY 2020.

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 continued 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:

- Considered strategies for enhancing freight efficiency and minimizing risk on the Harbor Bridge Replacement Project.
- Informed TAC of FHWA and Center for Transportation Excellence (CTE) teleconference workshops and webinars related to freight issues, transportation technology, and safety for member agencies and interested public. Provided TAC with updates to Texas Port CIP projects related to our local Port of Corpus Christi system as well as statewide activities at other Ports as examples of freight planning. Additionally, updates on freight activity in Texas and the broader Texas area in general as well as part of the global pandemic that severely impacted freight operation in our region, the state, country and internationally.
- Continued collaboration with regional partners to collect freight origin/destination data to augment the existing Hazardous Material Commodity Flow data set to inform whether to voluntarily undertake a routing process for non-radioactive hazardous materials (NRHM).
- Continued collaboration with the Port of Corpus Christi to promote the PCCA's truck queuing project on the Joe Fulton International Trade Corridor as a regional case study. Additionally, reviewed citizen comments and city planning process comments related to truck parking in the areas surrounding the Port of Corpus Christi and especially the North Beach area.

SUBTASK 3.5 – TRANSIT COORDINATION

The MPO continued to support transit services that enhance regional economic growth and universal access to goods and services. The MPO provided technical support to the region's coordination efforts to ensure that plan recommendations are consistent with current needs and resources of rural providers, the CCRTA, private providers, and the health and human services community. This was an ongoing 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 to regional partners in the interest of sustaining initiatives outlined in the Regional Public Transportation Coordination Plan.
- Technical assistance in support of the CCRTA's Comprehensive Operational Analysis to implement innovative Flex Route services, streamline route alignments, improve travel time, and evaluate operational efficiencies in all aspects of CCRTA operations to increase ridership levels. Worked with the travel demand model consultant for the City of Corpus Christi to host a workshop on an enhanced prototype travel model that had input into a regional transit demand forecasting tool.

- Continued collaboration with CCRTA and Texas A&M University - Corpus Christi to promote a collaborative autonomous campus shuttle pilot project as a regional case study. Due to the COVID-19 pandemic, this service was suspended in FY 2020.
- Participated with the CCRTA Board of Directors, Committees and staff on their projects and programs as well as budget development.
- Assisted CCRTA staff in the development and public processes for the FY 2019-2022 and FY 2021-2024 TIP Amendments through TxDOT and FHWA/FTA.
- Tracked ridership and regional impacts to services related to the pandemic to discussed with CCRTA staff of any strategies or marketing ideas that could assist the system 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:

- As part of the 2045 MTP development process, we acquired and compiled a myriad of Performance Metric data—including seven congestion-specific metrics per the MPO’s performance-based planning framework, as defined in the CMP. These datasets, which are acquired from multiple sources, were used to assess capital projects and the functionality of the regional transportation network, including evaluating the severity of congestion.
- Developed a completely new CMP in compliance with the Federal requirements and in response to a FHWA mandated deadline. The CMP was transmitted on November 29, 2019 to FHWA. Comments and enhancements were added throughout FY 2020 as new information and exhibits were updated as part of the continuous CMP efforts.

Task 3 - Funding Summary

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$109,774	\$108,361.35	\$1,412.65	98.71%
Local Planning Funds	\$0	\$0	\$0	\$0
FTA (Sec. 5309)	\$0	\$0	\$0	\$0
CMAQ	\$0	\$0	\$0	\$0
STP MM	\$0	\$0	\$0	\$0
TOTAL	\$109,774	\$108,361.35	\$1,412.65	98.71%

TASK 4 – METROPOLITAN TRANSPORTATION PLAN

Task 4 included an overall description of the MPO's metropolitan transportation plan development activities provided. Included are 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 is indicated. If an 'amount expended' has exceeded or is below the 'amount budgeted' by 25% or more, this is noted in the task funding table and an explanation provided for the variance. For FY 2020 this task was completed within the budgetary limits.

TASK 4 – OVERALL DESCRIPTION

This task was a major function of the MPO in FY 2020 with the development and completion of the 2020-2045 MTP in February 2020. The 2020-2045 MTP (2045 MTP) is fully compliant with the FAST Act planning regulations. The 2045 MTP is available on the Corpus Christi MPO website and includes both long-range and short-range strategies and actions that lead to the development of an integrated intermodal transportation system.

The 2045 MTP will be reviewed and updated at least every five years in attainment areas and the technical updates for the next plan started in FY 2020. 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 maintain attainment status for the National Ambient Air Quality Standards (NAAQS). MPO staff participate in the efforts of the Corpus Christi Air Quality Group.

Per FAST Act requirements, MPO staff, member entities, and regional partners worked collaboratively to establish a performance-based planning framework, which was first applied to the August 2017 Amendment of the 2015-2040 MTP and was the basis for prioritizing projects during the creation of the 2020-2045 MTP in FY 2019 and FY 2020. This framework enabled the MPO to evaluate the impact and cumulative progress of projects in terms of system operations, efficiency, and community benefit.

Based on regional goals and objectives, congestion management strategies (broadly categorized as demand management, traffic operations, public transportation, and road capacity) were prioritized and subsequently incorporated into the framework to ensure that the efficiency of existing infrastructure was maximized before investments in capacity were considered. This framework included the collection of data on a suite of performance measures; these performance measures provided the data basis for decision-making.

MODELS OF REGIONAL PLANNING COOPERATION: The MPO worked to 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 identified how the planning process and planning products were 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) such as TxDOT, MPOs, and operators of public transportation such as the CCRTA on activities such as: data collection, data storage and analysis, analytical tools, and performance-based planning.

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

- Essential services included 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
 - Used regional data to identify gaps in transportation system connectivity that preclude access to the public, including traditionally underserved populations, to essential services.
 - Developed 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 was used in the MPO's planning and forecasting processes as well coordination with TxDOT in the development of an updated Travel Demand Model.

Work Performed and Status

Corpus Christi MPO staff performed and completed the following:

- Technical support to partners that facilitated effective use of the data generated by the updated model
- Provided technical support to consultant for the development and completion of the MPO's updated Travel Demand Model with a 2016 base year and 2045 forecast year.
- MPO staff worked with the City of Christi consultant (CDM Smith) to complete the Strategic Integration (Travel Demand Model) Feasibility Study through a City-funded \$460,000 contract between the City of Corpus Christi and their consultant CDM Smith to implement Travel Demand Model enhancements. The MPO staff reviewed these enhancements as a possible core update request for future model enhancements for the next 2050 MTP. The enhanced model was completed in FY 2020.

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. Staff prepared a Fixing America's Surface Transportation (FAST) Act compliant 2020-2045 MTP in FY 2020. Maintaining this new 2045 MTP was also completed in FY 2020.

Work Performed and Status

Corpus Christi MPO staff performed and completed the following:

- Developed a fiscally constrained 2020-2045 MTP. Adopted in February 2020. The completed process is provided on the Corpus Christi MPO website and defines the public process, meetings, and sections of the 2045 Document and Appendices.
- As part of the 2045 MTP process, a new Congestion Management Process (CMP) was developed and implemented. The new CMP was created and updated in FY 2020 with the first major CMP delivered to FHWA in November 2019. This document is frequently updated as conditions change and the most current document is on the Corpus Christi MPO website.
- MPO staff reviewed the current status of the regional ITS efforts and discussed the feasibility of integrating ITS resources into the incident management strategies.

- The MPO staff discussed the possible opportunities to partner or leverage public resources into operations and maintenance projects in the region.
- The MPO Identified possible locally relevant performance measures amidst state and federal performance measures as they became available to be integrated into the project selection process for the 2045 MTP and FY 2021-2024 TIP. Primarily the state performance measures were adopted by the MPO for these purposes.

SUBTASK 4.3 – TEN-YEAR PLAN

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 years of the plan satisfied the requirements of the current FY 2021-2024 TIP. A cooperative interagency input process was part of the public involvement component of this task, specifically for the regions transit operator, the CCRTA. Project recommendation criteria included 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:

- Maintained an up-to-date fiscally constrained 10-Year Plan for the periods of FY 2020-2029 and FY 2021-2030.
- Identified opportunities to partner and leverage public resources for projects.

SUBTASK 4.4 – AIR QUALITY MONITORING

This subtask provided for the participation in the Coastal Bend Air Quality Partnership, a coalition of public and private entities that develop strategies to maintain the attainment status for the Ambient Air Quality Standards. This committee participated in studies, public education, and mobile source data collection. The MPO worked with the Pollution Prevention Partnership, 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 through notification to the staff of our partner agencies.

Work Performed and Status

Corpus Christi MPO staff performed and completed the following:

- Participation in the Coastal Bend Air Quality Partnership activities.
- Coordinated with the Pollution Prevention Partnership on federal reporting and regional outreach.
- Narrative and data contributions to annual Ozone Advance Report and other regional reporting documents as part of our MPO documents, specifically the 2045 MTP and FY 2021-2024 TIP and FY 2021- FY 2022 UPWP initial development in FY 2020.

Task 4 - Funding Summary

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$117,017	\$98,587.20	\$18,429.80	84.25%
Local Planning Funds	\$0	\$0	\$0	\$0
FTA (Sec. 5309)	\$0	\$0	\$0	\$0
CMAQ	\$0	\$0	\$0	\$0
STP MM	\$0	\$0	\$0	\$0
TOTAL	\$117,017	\$98,587.20	\$18,429.80	84.25%

*The MPO staffing levels were 5 of 6 FTEs from in FY 2020.

TASK 5 - SPECIAL STUDIES

Task 5 included an overall description of the MPO's special studies activities. These included 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 is 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. For FY 2020 all tasks were completed within the budgetary limitations with no variance.

TASK 5 – OVERALL DESCRIPTION

Special studies are undertaken to enhance the MPO planning process. The MPO programmed two projects and expected to use consulting services for two projects. Only one project (Resiliency) was completed.

1. Implementation of a collaborative Travel Speed and Delay Pilot with TTI associated with data collection to inform congestion-related performance metrics for use in prioritizing individual capital projects in the 2020-2045 MTP. This project was canceled for FY 2020 and the funds carried over into the FY 2021- FY 2022 UPWP tasks.
2. Design of a nature-based shoreline protection feature (Laguna Shores Road) funded with a separate FHWA Resilience and Durability to Extreme Weather Pilot award (\$110,770), was initiated in FY 2018 and continued through FY 2020. This project will continue with construction in FY 2021 through 2022. Monitoring of the project's effects will continue through FY 2024.

The MPO used a consultant (HDR) for the Resilience and Durability to Extreme Weather Pilot Project. The MPO staff continued to provide oversight and communications and collaboration related to this project with the City of Corpus Christi.

SUBTASK 5.1 – TRAVEL SPEED STUDY

This task was to fund activities (over a period of 24 to 36 months) that capture data for congestion performance metrics; provide feedback and analysis strategies on performance measures useful for tracking performance of the region's transportation network; and implement preliminary data collections strategies.

Work Performed and Status

Corpus Christi MPO staff cancelled this project and carried over the funds for the FY 2021- FY 2022 UPWP. TxDOT purchased INRIX data for MPO's to use, therefore this project was not continued in FY 2020. Aspects of this proposed effort were combined into the MPO's efforts with the 2045 MTP and the CMP in FY 2020.

SUBTASK 5.2 – RESILIENCE AND DURABILITY TO EXTREME WEATHER PILOT PROJECT

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

Work Performed and Status

- The consultants and TAMU-CC staff and students assessed baseline habitat and shoreline conditions. MPO staff reviewed the work to date.
- Consultant staff with MPO staff identified one or more innovative shoreline protection strategies that could integrate engineering and ecological (habitat restoration/living shoreline) techniques.
- In FY 2020, the MPO's resiliency consultant team (HDR) and the engineering firm (LJA) of the City of Corpus Christi Laguna Shores Road project team designed a pilot shoreline protection project as part of the roadway reconstruction project. The shoreline protection component of the roadway reconstruction project was included in the base bid for construction. After the City performed the procurement process, the bids included the resiliency project to be constructed in the early phases of the project. MPO staff reviewed the construction plans and specifications to ensure they met the intent of the FHWA Resiliency Project. Construction is planned for FY 2021-2022.
- In FY 2021-2024, the MPO team with assistance of the TAMU-CC staff and students will evaluate the future monitoring process for the project to determine the effectiveness in terms of habitat development and shoreline condition and 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.

Task 5.0 - Funding Summary

Funding Source	Amount Budgeted	Amount Expended	Balance	% Expended
Transportation Planning Funds (PL 112 & FTA 5303)	\$0	\$0	\$0	0%
FHWA Resiliency Pilot Grant*	\$110,770	\$98,238.54	\$12,351.46	88.69%
Local Planning Funds	\$0	\$0	\$0	\$0
FTA (Sec. 5309)	\$0	\$0	\$0	\$0
CMAQ	\$0	\$0	\$0	\$0
STP MM	\$0	\$0	\$0	\$0
TOTAL	\$110,770	\$98,238.54	\$12,531.46	88.69%

*FHWA Resiliency Pilot Grant is not PL Funds and not included in the PL funding totals.

BUDGET SUMMARY

The following table shows a recap of the FY 2020 funding amounts budgeted, expended, the remaining balance (if any), and the total percent (%) expended. A 'budget summary' table is provided for each funding source identified in the UPWP and repeated in the APER.

**Total Transportation Planning Funds (TPF)
Budgeted and Expended for FY 2020**

UPWP Task	Amount Budgeted	Amount Expended	Balance	% Expended*
1.0	\$401,505	\$353,324.16	\$48,180.84	88%
2.0	\$63,960	\$66,820.91	-\$2,860.91	104.47%
3.0	\$109,774	\$108,361.35	\$1,412.65	98.71%
4.0	\$117,017	\$98,587.20	\$18,429.80	84.25%
5.0 (*)	\$22,154	\$22,154	\$0	100.00%
TOTAL	\$714,410	\$649,247.62	\$65,162.38	90.88%

- Note: The funds for Task 5.0 are a separate FHWA Resiliency Grant. Only MPO staff time is included in the FY 2020 UPWP and shown in this table. The total grant is \$110,770.

**FHWA Resiliency Pilot Project
Budgeted and Expended for FY 2020**

UPWP Task	Amount Budgeted	Amount Expended	Balance	% Expended
1.0				
2.0				
3.0				
4.0				
5.0	\$110,770	\$98,238.54	\$12,351.46	88.69%
TOTAL	\$110,770	\$98,238.54	\$12,351.46	88.69%

**FTA (Sec. 5307) Funds
Budgeted and Expended for FY 2020**

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

**CMAQ Funds
Budgeted and Expended for FY 2020**

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

**STP – MM Funds
Budgeted and Expended for FY 2020**

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