

TO: Region 11 Regional Flood Planning Group
CC: Project Files
FROM: Jay Scanlon, P.E., Adam Conner
SUBJECT: Task 12 Potential FMEs
DATE: 8/29/2022
PROJECT: GBA21362

As discussed at the previous Flood Planning Group meetings, the Texas Water Development Board Amendment includes funding in Task 12 for the purpose of performing Flood Management Evaluations (FMEs) recommended in the Draft Regional Flood Plan, with the goal of advancing those to Flood Mitigation Projects (FMPs) in the July 2023 Amended Regional Flood Plan. The funding is limited, thus the number of FMEs that can be completed is limited and the Planning Group must approve the FMEs to be done.

Our Team is working through the FMEs to generate a list of recommended FMEs to be completed. We planned to present the initial list in September 2022; however, as we are reviewing the list we recognize the need to reach out to local communities for additional information and clarification. The additional information will allow us to better assess the level of effort needed, determine if the sponsor supports development of the FMP, and/or determine if the sponsor plans to apply for future Flood Infrastructure Funds (FIF) to implement the project.

We have narrowed the FME list to about 50 potential FMEs (attached). As we work to develop the recommended list we would appreciate your guidance/preferences for how we do so. Here are some common threads we are seeing and contemplating as part of the decision:

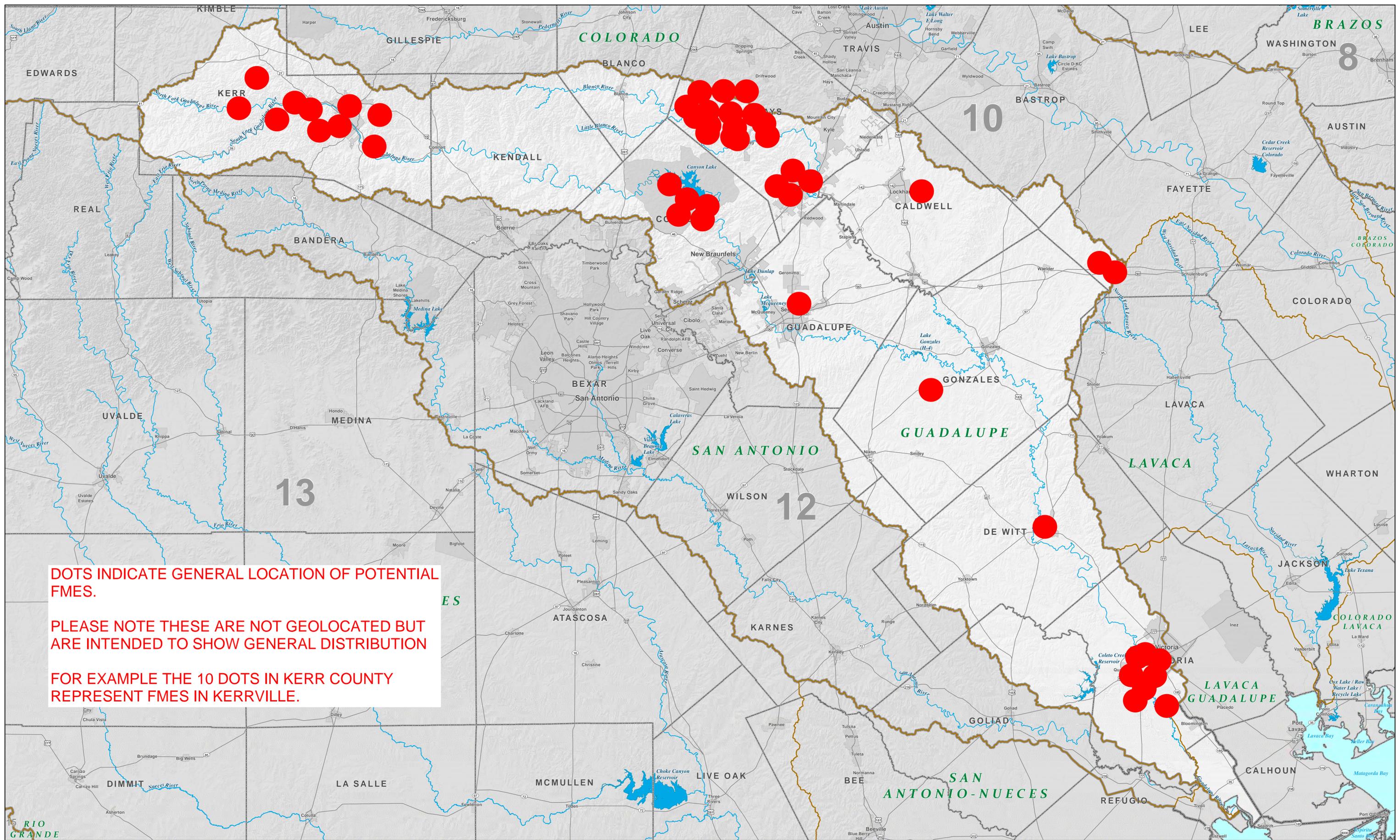
- Ten (10) of the FMEs were identified as having completed preliminary engineering reports; however, these FMEs are concentrated in Kerrville and Victoria.
- Eight (8) FMEs are in design so detailed engineering is complete; however, these are generally missing benefit-cost-analyses needed to be shown as an FMP. Depending on the timing of construction and whether or not the sponsor plans to apply for future FIF money these may fall off the list of be considered low hanging fruit.
- Twenty-three (23) Low Water Crossings identified but some additional crossings may have been identified in the Victoria PER.

While we continue to vet the potential FMEs we wanted to request your input/guidance to develop the list of recommended FMEs. Based on preliminary estimates of effort we anticipate that the team will be able to complete 5 or 6 FMEs but that number could increase or decrease depending on the actual FME. To that end, we have attached a template scope and budget form we will use to document the FMEs to be performed as well as our “working list” for your review and input.

FME ID	FME Name	Description	Counties	Sponsor	Staus	Notes
11100007	Caldwell County Emergency Service District #4 Fire Station 2 Project Planning	Planning for proposed project to build a swell and raise driveway of Fire Station 2 to prevent inundation of facility and to keep station in service during major storm events.	Caldwell	Caldwell County Emergency Service District #4	Unknown	No informaiton
11100043	City of New Braunfels - Box Culvert Installation to Reduce Flood Risk on Blieders Creek, Comal River and Landa Park Project Planning	Project planning for proposed drainage improvements project to reduce flooding in the Blieders Creek and German Creek watersheds by conveying flows to the Guadalupe River. The project is also intended to relieve flooding in the Landa Park area	Comal	New Braunfels	Unknown	Part of FIF? Timing?
11100044	City of New Braunfels Faust St / Nacogdoches Ave Improvements Project Planning	Study to analyze drainage conveyance and flooding issues within the Faust Street and Nacogdoches Avenue area and project planning for solutions within project area.	Comal	New Braunfels	Unknown	Part of FIF? Timing?
111000100	Comal County Master WID River Road Low Water Crossing Improvement Project Planning	Project planning for proposed project to implement low water crossing improvements at River Road.	Comal	Comal Master WID	Unknown	No informaiton
111000103	City of Cuero WWTP Floodproofing Project Planning	Project planning to floodproof/retrofit older components of the Cuero Wastewater Treatment Plant subject to flooding.	De Witt	Cuero	Unknown	Determine conceptual project and effort to model/design
111000015	City of Flatonia Drainage Project Planning	Project planning for proposed project to make culvert and drainage ditch improvements from just south of the Union Pacific Railroad at US 90 to the north side frontage road of I-10.	Fayette	Flatonia	Unknown	Are there existing models or conceptual/preliminary deisgn
111000016	City of Flatonia WWTP Floodproofing Project Planning	Project planning for proposed project to floodproof Waste Water Treatment Plant	Fayette	Flatonia	Unknown	Determine conceptual project and effort to model/design
111000008	Canyon Regional WA Hays Caldwell Water Treatment Plant Floodwall Project Planning	Project planning for Canyon Regional WA - Hays Caldwell Water Treatment Plant Floodwall Project	Guadalupe	Canyon Regional Water Authority	In Design	Depends on timing of construction and funding needs (need FIF funding or not)
111000067	City of Seguin Sewage Treatment Plant Floodproofing Project Planning	Project planning for proposed project to flood-proof sewage treatment plants in flood hazard / low-lying areas.	Guadalupe	Seguin	Unknown	Determine conceptual project and effort to model/design
111000054	City of San Marcos Regional Detention Study	Study of solutions for regional detention and water quality strategies.	Guadalupe,Caldwell,Hays	San Marcos	In Design	Depends on timing of construction and funding needs (need FIF funding or not)
111000056	City of San Marcos Low Water Crossing at Jackman Project Planning	Project planning to replace low water crossing at Jackman	Hays	San Marcos	In Design	Depends on timing of construction and funding needs (need FIF funding or not)
111000057	City of San Marcos Low Water Crossing at Mitchell and Purgatory Creek Project Planning	Project planning to replace low water crossing at Mitchell and Purgatory Creek	Hays	San Marcos	In Design	Depends on timing of construction and funding needs (need FIF funding or not)
111000058	City of San Marcos LWC at River Road and Railroad Trestle/Blanco River Project Planning	Project planning to replace low water crossing at River Road and Railroad Trestle/Blanco River	Hays	San Marcos	In Design	Depends on timing of construction and funding needs (need FIF funding or not)
111000059	City of San Marcos LWC at S LBJ and Purgatory Creek Project Planning	Project planning to replace low water crossing at S LBJ and Purgatory Creek	Hays	San Marcos	In Design	Depends on timing of construction and funding needs (need FIF funding or not)
111000114	Hays County Drainage Project Planning (Willow Springs Creek between McCarty Lane and Hunter Road)	Project planning for channel improvement and/or property acquisition project to reduce flood damages along Willow Springs Creek from McCarty Lane to Hunter Road.	Hays	Hays Co	Unknown	Are there existing models or conceptual/preliminary deisgn
111000115	Hays County Drainage Project Planning (Willow Springs Creek between Hunter Rd and the Railroad)	Project planning for detention project to reduce flood damages along Willow Springs Creek from Hunter Road to the railroad.	Hays	Hays Co	Unknown	Are there existing models or conceptual/preliminary deisgn
111000093	City of Wimberley River Road Reconstruction Project Planning	Project planning for proposed project to reconstruct roadway along Blanco River	Hays	Wimberley	Unknown	Appears to be parallel road rather than LWC

FME ID	FME Name	Description	Counties	Sponsor	Staus	Notes
11100081	City of Wimberley FM 1492 at Blanco River Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at FM 1492 at Blanco River	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100082	City of Wimberley Hidden Valley at Blanco River Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Hidden Valley at Blanco River	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100083	City of Wimberley Little Arkansas at Blanco River Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Little Arkansas at Blanco River	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100084	City of Wimberley Valley Drive at Pierce Creek Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Valley Drive at Pierce Creek	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100086	City of Wimberley FM 1492 at Pierce Creek Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at FM 1492 at Pierce Creek	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100087	City of Wimberley Wilson Creek at River Road Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Wilson Creek at River Road	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100088	City of Wimberley Green Acres Dr. at Fire Station Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Green Acres Dr. at Fire Station	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100089	City of Wimberley Leveritt's Loop Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Leveritt's Loop	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100090	City of Wimberley Spoke Hollow Dr. at Spoke Pile Creek Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Spoke Hollow Dr. at Spoke Pile Creek	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100091	City of Wimberley River Road at Western City Limit Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at River Road at Western City Limit	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100092	City of Wimberley Paradise Hills Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Paradise Hills	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100094	City of Wimberley Little Ranches at Panther Creek Low Water Crossing Project Planning	Project planning for proposed project to reconstruct low water crossing and roadway at Little Ranches at Panther Creek	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100095	City of Wimberley Hoots Holler Low Water Crossing Project Planning	Project planning for proposed project to reconstruct low water crossing and roadway at Hoots Holler	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100085	City of Wimberley Flite Acres Road Low Water Crossing Project Planning	Project planning for proposed project to replace low water crossing at Flite Acres Road	Hays	Wimberley	Unknown	Atlas 14 updates and preliminary design
11100031	City of Kerrville Harper Road to Town Creek (Fay Drive) Drainage Improvements Study	Study of solutions to implement drainage improvements on Harper Road to Town Creek (Fay Drive).	Kerr	Kerrville	Concept	Concept - determine how much preliminary engineering done
11100122	Kerr County Center Point Storm Drainage Infrastructure Project Planning	Project planning to construct new storm drainage infrastructure to reduce the potential impacts of future flood events.	Kerr	Kerr Co	In Design	Depends on timing of construction and funding needs (need FIF funding or not)
11100022	City of Kerrville Pinto Trail Project Planning	Project planning for proposed project to provide flood relief to the properties adjacent to the channel at risk of flooding, including widening existing channels, constructing a grass-lined trapezoidal channel, and seeding the proposed earthen channels	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps

FME ID	FME Name	Description	Counties	Sponsor	Staus	Notes
111000029	City of Kerrville Circle Avenue Drainage Channel Project Planning	Project planning for proposed channel and street improvement project to alleviate sedimentation and erosion issues at the intersection of Culberson Avenue and Circle Avenue.	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps
111000028	City of Kerrville Harper Street between Culberson Avenue and Lewis Avenue Project Planning	Project planning for proposed storm drain system project to relieve localized flooding and excessive ponding that occurs throughout Harper Street.	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps
111000030	City of Kerrville Jack Drive - Undersized Inlet Project Planning	Project planning for proposed street and drainage improvements project to relieve road and property flooding from occurring directly downstream of Jack Drive's existing undersized inlet.	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps
111000023	City of Kerrville Park Street Low Water Crossing Project Planning	Project planning for proposed project to improve or replace the Park Street Low Water Crossing.	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps
111000024	City of Kerrville First Street Low Water Crossing Project Planning	Project planning for proposed project to improve or replace the First Street Low Water Crossing.	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps
111000025	City of Kerrville Fourth Street Low Water Crossing Project Planning	Project planning for proposed project to improve or replace the Park Street Low Water Crossing.	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps
111000026	City of Kerrville Hill Country Drive at SH 16 Project Planning	Project planning for proposed project to raise the roadway profile and regrade Hill Country Drive, and increase the downstream pipe capacity at Hill Country Drive.	Kerr	Kerrville	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps
111000072	City of Victoria Flood Gate Project Planning	Project planning for proposed project to rehabilitate, repair, or replace the City of Victoria's existing flood gates, install additional flood gates as appropriate, and construct a storm water lift station in an area to be determined by study.	Victoria	Victoria	Design Complete	Depends on timing of construction and funding needs (need FIF funding or not)
111000069	City of Victoria Drainage Improvement Study	Study of solutions to increase dimensions of drainage culverts in areas prone to flooding and/or drainage problems in various City locations.	Victoria	Victoria	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps. Identify a specific crossing(s) from the list?
111000073	City of Victoria Regional Drainage Solutions Project Planning	Project planning for proposed project for five regional drainage solutions within the City: the Gardens Apartment diversion, Shenandoah ditch improvements, Anthony Road outfall improvements, Lone Tree Road outfall improvements, and Clear Ditch outfall.	Victoria	Victoria	Performed Prelim Engineering Report	Has PER - Atlas14 update and fill gaps. Identify a specific project from the list?
111000074	City of Victoria - Storm Sewer Improvements Project Planning	Project planning for project to replace storm sewer pipe under 18-inch diameter (29.9 miles). As a result of overland flow analysis and Storm Sewer System Level of Service Analysis, it was determined to replace all pipe less than 18-inch diameter.	Victoria	Victoria	Performed Prelim Engineering Report	Has PER - Atlas 14 and determine what gaps remain? Potentially high effort to complete due to size
111000076	City of Victoria Regrade Priority Ditches and Driveway Culverts Project Planning	Project planning for proposed drainage improvements. As a result of a roadside ditch capacity evaluation, it was determined that 23 miles of ditch and 669 driveway culverts are negatively impacting conveyance capacity and need to be regraded.	Victoria	Victoria	Performed Prelim Engineering Report	Has PER - Atlas 14 and determine what gaps remain? Potentially high effort to complete due to size
111000078	City of Victoria Stream Restoration Study	Study to implement a stream restoration/channelization program to ensure adequate drainage/diversion of storm water, throughout various City low water crossings, streambeds, creek sheds, tributaries, and riverine areas.	Victoria	Victoria	Performed Prelim Engineering Report	Has PER - Atlas 14 and determine what gaps remain? Potentially high effort to complete due to size
111000077	City of Victoria Repair Channel Failures & Sediment Removal Project Planning	Project planning for proposed channel improvements. Using field visits and drone footage, it was determined to repair 33,657 sq ft of concreted lined channel, 11,829 sq ft of earthen channel, and remove 227,099 sq ft of sediment.	Victoria	Victoria	Unknown	Any engineering studies / Maintenance vs improvements



DOTS INDICATE GENERAL LOCATION OF POTENTIAL FMES.

PLEASE NOTE THESE ARE NOT GEOLOCATED BUT ARE INTENDED TO SHOW GENERAL DISTRIBUTION

FOR EXAMPLE THE 10 DOTS IN KERR COUNTY REPRESENT FMES IN KERRVILLE.



- Regional Flood Planning Groups**
1. Canadian Upper Red
 2. Lower Red Sulphur Cypress
 3. Trinity
 4. Sabine
 5. Neches
 6. San Jacinto
 7. Upper Brazos
 8. Lower Brazos
 9. Upper Colorado
 10. Lower Colorado-Lavaca
 11. Guadalupe
 12. San Antonio
 13. Nueces
 14. Upper Rio Grande
 15. Lower Rio Grande

- Guadalupe Counties (full and partial)**
- Bandera
 - Bastrop
 - Blanco
 - Caldwell
 - Comal
 - De Witt
 - Fayette
 - Gillespie
 - Lavaca
 - Goliad
 - Refugio
 - Guadalupe
 - Travis
 - Hays
 - Victoria
 - Karnes
 - Wilson
 - Kendall
 - Ken

GUADALUPE

Flood Planning Region - 11

- FPR 11 Boundary
- Adjacent FPR Boundaries
- Major River Basin Boundaries
- County Boundaries
- Cities, Towns, Villages, & CDPs
- Major Reservoirs and Lakes
- Major and Minor Rivers
- Major Roadways

Map Scale = 1:450,000

DISCLAIMER: This data was generated by the Texas Water Development Board using GIS (Geographic Information System) software. No claims are made for the accuracy or completeness of the information shown here nor for its suitability for a particular use. The names and locations of all mapped data are approximate. 10/01/2020

DATA SOURCES: Regional Flood Planning Groups (RFP): Texas Water Development Board (TWDB); Counties, Cities & Towns: Texas Department of Transportation (TxDOT); Census Designated Places: United States Census Bureau (USCB); Hydrography: Texas State Geographical Survey (TSGS); National Hydrography Data Set (NHDS) & TWDB. All data are in the public domain.

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