

**NOTICE OF OPEN MEETING OF THE SAN ANTONIO REGIONAL FLOOD PLANNING
GROUP**

Region 12 San Antonio RFPG

10/13/2022

3:00 PM

TAKE NOTICE that a meeting of the San Antonio Regional Flood Planning Group as established by the Texas Water Development Board, will be held on Thursday, October 13, 2022, at 3:00 PM, in-person at the San Antonio River Authority Board room, located at 201 W. Sheridan St. and virtually on GotoMeeting at <https://meet.goto.com/359874573>.

- Agenda:**
1. (3:00 PM) Roll-Call
 2. Public Comments – limit 3 minutes per person
 3. Approval of the Minutes from the Previous San Antonio Regional Flood Planning Group Meeting (Region 12)
 4. Communications from the Texas Water Development Board (TWDB)
 5. Chair Report
 6. Discussion and Appropriate Action on Task 12
 - a. Perform Identified Flood Management Evaluations, Identify, Evaluate, and Recommend Additional Flood Mitigation Projects
 7. Discussion and Appropriate Action Regarding Executive Committee Membership
 8. Discussion and Appropriate Action Regarding Adding New Voting Positions and Any Subsequent Solicitations
 9. Regional Liaison Update
 10. Public Comments - limit 3 minutes per person
 11. Date and Potential Agenda Items for Next Meeting
 12. Adjourn

If you wish to provide written comments prior to or after the meeting, please email your comments to khayes@sariverauthority.org or physically mail them to the attention of Kendall Hayes at San Antonio River Authority, 201 W. Sheridan, San Antonio, TX, 78204 and include “Region 12 San Antonio Flood Planning Group Meeting” in the subject line of the email.

Additional information may be obtained from: Kendall Hayes (210) 302-3641, khayes@sariverauthority.org, San Antonio River Authority, 201 W. Sheridan, San Antonio, TX.

Meeting Minutes
Region 12 San Antonio Regional Flood Planning Group Meeting
Thursday, September 15, 2022
2:00 PM
San Antonio River Authority

Roll Call:

<u>Voting Member</u>	<u>Interest Category</u>	<u>Present (x) /Absent () / Alternate Present (*)</u>
Brian Yanta	<i>Agricultural interests</i>	X
David Wegmann	<i>Counties</i>	X
Derek Boese	<i>River authorities</i>	X
Doris Cooksey	<i>Electric generating utilities</i>	X
Deborah (Debbie) Reid	<i>Environmental interests</i>	X
Nefi M. Garza	<i>Flood districts</i>	X
Cara C. Tackett	<i>Industries</i>	X
Jeffrey Carroll	<i>Municipalities</i>	X
John Paul Beasley	<i>Public</i>	
Suzanne B. Scott	<i>Nonprofit</i>	X
Steve Gonzales	<i>Small business</i>	
David Mauk	<i>Water districts</i>	*Hayli Hernandez
Steve Clouse	<i>Water utilities</i>	

<u>Non-voting Member</u>	<u>Agency</u>	<u>Present(x)/Absent()/ Alternate Present (*)</u>
Marty Kelly	Texas Parks and Wildlife Department	
James Guin	Texas Division of Emergency Management	
Jami McCool	Texas Department of Agriculture	X
Jarod Bowen	Texas State Soil and Water Conservation Board	
Kris Robles	General Land Office	*Brittany Frazier
Anita Machiavello	Texas Water Development Board (TWDB)	X
Susan Roberts	Texas Commission on Environmental Quality	

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **10**

Number required for quorum per current voting positions of 13: **7**

All meeting materials are available for the public at: <http://www.region12texas.org>.

AGENDA ITEM NO.1: ROLL CALL

Ms. Kendall Hayes, San Antonio River Authority, called the role and confirmed a quorum.

AGENDA ITEM NO.2: PUBLIC COMMENT – LIMIT 3 MINUTES PER PERSON

No public comments.

AGENDA ITEM NO.3: APPROVAL OF THE MINUTES FROM THE PREVIOUS SAN ANTONIO REGIONAL FLOOD PLANNING GROUP MEETING (REGION 12)

Mr. Wegmann motioned to approve the minutes. Mr. Boese seconded the motion, motion passed

AGENDA ITEM NO.4: COMMUNICATIONS FROM THE TEXAS WATER DEVELOPMENT BOARD (TWDB)

Ms. Anita Machiavello provided an update from TWDB. A newsletter was sent out to RFPG members yesterday. The newsletter included information on Task 12, funding, and stakeholder survey information.

AGENDA ITEM NO.5: CHAIR REPORT

Chair Garza notified the RFPG that the draft plan was deemed administratively complete. He and Mr. Boese were interviewed on TPR's "The Source", available online for listening.

AGENDA ITEM NO.6: PRESENTATION ON TASKS 11-13

Mr. Ron Branyon provided a presentation on Tasks 11-13. He provided a summary of the tasks that were added by TWDB into the amended contract. His presentation is available online at region12texas.org.

AGENDA ITEM NO.7: DISCUSSION ON THE INCORPORATION OF PUBLIC COMMENTS INTO THE FMX LIST

Mr. Ron Branyon explained how public comments have been incorporated in to the FMX list. The RFPG requested that the technical consultants contact the individuals that submitted comments to notify them that their comments were received and are either in the draft plan or that they are working with governmental entities.

AGENDA ITEM NO.8: DISCUSSION AND APPROPRIATE ACTION ON THE POSITION OF CHAIR OF THE SAN ANTONIO REGIONAL FLOOD PLANNING GROUP

Chair Garza started the agenda item by reminding the RFPG of his transition to the private sector. He stated his appreciation for the RFPG and respectfully stepped down from the executive position of Chair. Mr. Boese spoke to Mr. Garza's leadership and tenure as Chair. This sentiment was echoed by RFPG members.

Ms. Tackett provided the Executive Committee's recommendation from today's meeting. The Executive Committee proposed that an agenda item be added to the subsequent RFPG meeting to add a voting membership position under the Municipalities interest group. The committee also asked that an agenda item be added to the subsequent RFPG meeting regarding filling Executive Committee vacancies.

Ms. Tackett nominated Mr. Boese to serve as Chair. Ms. Reid seconded the motion, motion passed. The position of Chair of the San Antonio Regional Flood Planning Group has transferred to Mr. Boese.

AGENDA ITEM NO.9: REGIONAL LIAISON UPDATE

All adjacent RFPGs have met their draft plan deadlines.

AGENDA ITEM NO.10: PUBLIC COMMENTS – LIMIT 3 MINUTES PER PERSON

No public comments

AGENDA ITEM NO.11: DATE AND POTENTIAL AGENDA ITEMS FOR NEXT MEETING

The Region 12 Public Hearing will be held at the San Antonio River Authority tonight. The next RFPG meeting will be October 13th at 3:00 PM.

AGENDA ITEM NO.12: ADJOURN

Ms. Reid motioned to adjourn. Ms. Tackett seconded the motion, motion passed.

SARFP: Amendment Projects - Level of Effort

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
LOW	121000156	City of La Vernia	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Repetitive loss properties	Regulatory and Guidance	Study: Offer relocation/mitigation incentives to current flood hazard area property owners; initiate a community program to acquire repetitive loss structures identified by FEMA.	Detailed Study? Repedative losses total = 3 in 2020, detailed cost estimate
	121000155	City of Floresville	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 1: Project 1A, 1B, 1C	Engineering Project Planning	PER: Detention upstream of Lost Springs Hollow along with some channel work. Upgrade Hwy 181 crossing at Lodi Branch and channelization (contingent of Project 1A).	Yes, model. Need to No Impact Analysis and Benefit cost ratio?
	121000123	City of La Vernia	Wilson	Overall Preliminary Drainage Report	2022	Issue #2 and #3 (City Park/La Vernia ISD)	Engineering Project Planning	Study to assess 6'-wide concrete-bottom channel/sidewalk with earthen sides (graded 5:1) be constructed through this area to better define the flow path. Gauge boards on San Antonio Road. Acquire 25'-wide drainage easements.	waiting on Model, will need BCA
	121000122	City of La Vernia	Wilson	Overall Preliminary Drainage Report	2022	Issue #5 (HWY 87 Crossing & CR 342 Crossing)	Engineering Project Planning	Study to assess city acquire drainage easements in the area upstream of the Highway 87 crossings, as well as the area between the crossings at Highway 87 and the crossing at CR 342. Easement acquisition would allow for the construction of a defined channel through these sections.	waiting on Model, will need BCA
	121000151	Bexar County	Bexar	Bexar County Sponsor Outreach	2022	Bexar County Line LWC Engineering Study	Engineering Project Planning	Engineering Study to evaluate twelve LWC upgrades at county line	Easy Engineering study to do in the amendment
	121000164	Bexar County	Bexar	Bexar Sponsor Outreach	2022	Bexar County LWC Engineering Study	Engineering Project Planning	Engineering Study to evaluate seven LWC upgrades.	Easy Engineering study to do in the amendment
	123000029	City of San Antonio	Bexar	Sponsor Outreach	2022	Concepcion Creek Improvements Project	Comprehensive Regional Project	Ph1. 54-ac detention, property acquisition and 10,000ft of storm drain systems and road reconstruction. Ph2. 1.36mi of Concepcion Creek channel improvements. Ph3. 2,300ft of (3)10x8 MBC systems	Model yes, need BCA
	121000089	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2021	Damage Center 14- Airport Trib	Loop 410 on the north side and US 281 on the east and south side	There are four bridges within this Damage Center, of which all overtop during the 1% AC storm event. Voluntary Acquisition of 79 residential properties that are compromised	Property Acquisition
	121000052	City of Poth	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 2- Project 1 Culvert Improvements at Manchaca	Menchaca (CR220) crossing at Poth Creek	Significant overtopping at one 3' x 5' box culvert. Improving this culvert would provide emergency access to the areas of Poth west of Poth Creek	
	121000084	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 38- Olmos Creek Lower Reach Near Montview	Jackson Keller Road and West Avenue just downstream of the confluence of Rock Creek and Olmos Creek	Flooding occurs on the left overbank and begins just upstream of Montview. A total of 10 lots are impacted by the 100-year storm event and the depth of flooding ranges between 0.10 and 0.15 feet. Flood depths are less than 0.5 feet; therefore	
	121000083	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 39- Olmos Creek and Olmos Creek East Channel	Jackson Keller Road and West Avenue between Damage Center 38 and NW Loop 410	Antonian High School is just downstream of this damage center. There are a total of eight parcels that are flooded by the 100-year storm event. Flood-proofing appears to be a practical approach for these properties. Flood-proofing/Elev	
	121000082	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 40-San Antonio River DS Reach near Roosevelt	Bound on the east side by S. Presa St and downstream of Mission Road.	Three lots have 100-year flood depths greater than 2 feet and were therefore not considered for flood-proofing. Due to its location between parks, it appears reasonable to be buyout the flooded properties and continue the park area along th	Property Acquisition
121000081	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 44-San Antonio River Near Center Road	S. Blue Wing Road on the south and Southton Road on the north east	This area consists of large agricultural lots. Buyouts appear to be the best option since the entire damage center is in the floodplain. The area can be converted to a recreational water park area or pavilions to encourage biking and w	Property Acquisition	

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
LOW	0	City of Shavano Park	Bexar	Preliminary Engineering Report	2020	De Zavala/ Ripple Creek	Bikeway Ln and Da Zavala	Currently a ridge transverses through the munitract with a northwest portion of the munitract property sheet flowing onto existing lots along Bikeway Ln and the southwest portion of the munitract sheet flows towards an existing low and culvert crossing located at De Zavala. The proposed option to mitigate the drainage concerns within this area include capturing on the southern side of Da Zavala with a storm drain and conveying the runoff along De Zavala and discharging into Olmos Creek at De Zavala	
	0	City of Shavano Park	Bexar	Preliminary Engineering Report	2020	Elm Spring	Bikeway Lane and Elm Spring Ln intersection	This flooding creates dangerous driving conditions and flood multiple homes, At the Bikeway Lane and Elm Spring Ln intersection, the proposed underground drain will be constructed between the existing homes past their rear property lines. At this point, an earthen channel will be constructed on private property to convey the runoff across the property and discharge into Olmos Creek. HIGH LOE	
MEDIUM	121000048	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	7840 Silver Spur Trail	7840 Silver Spur Trail	Runoff collects from the northside of the city and passes this point before passing under Keeneland then to the Cibolo Creek Post Oak Creek low water crossing. MEDIUM LOE - EVALUATE AGAIN IN NOV	PER under development by FOR
	121000006	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	8402 Battle Intense Low Water Crossing	8402 Battle Intense	Battle intense is often shut down in large rain events. Debris collects and damages this low water crossing MEDIUM LOE	Regional but not high emergency needf
	121000053	City of Poth	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 2- Project 2 Road connection from Mosspoint to Sunshine	Mosspoint Street to FM 541 at Sunshine Drive	During a large storm event, access to and from residences adjacent to Mosspoint Street is compromised. MEDIUM LOE	Regional
	121000098	City of Bulverde	Comal	Cibolo Creek Watershed Holistic Master Plan	2018	FM 1863 at Cibolo Creek LWC	FM 1863 Bulverde	Replace low water crossings at two locations where FM1863 crossing Cibolo Creek with bridges MEDIUM LOE.	Regional
	121000096	Kendall County	Kendall	Kendal County	2022	LWC at Old Fredericksburg Rd and Balcones Creek	Old Fredericksburg Rd and Balcones Creek	Improve low water crossing at Old Fredericksburg Rd and Balcones Creek MEDIUM LOE - EMERGENCY NEED	Regional
	121000003	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	7900 Fair Oaks Parkway	7900 Fair Oaks Parkway	Analysis needed to confirm no adverse impacts on the solution that was implemented.	Small watershed - more of a local drainage issue
	121000049	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	8410 Noble Lark Dr	8410 Noble Lark Dr	Regrade channel and install erosion control measures, repair the eroded foundation of the culvert headwall	Repair and maintenance project
	121000044	City of Poth	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Build Detention Pond	City of Poth	Phase I: Perform a study to evaluate Poth Branch Watershed - Phase II: Purchase land and construct a drainage infrastructure facility in accordance with the engineering recommendations of the study.	Additional study needed. Note: Watershed master plan summarizes hydrologic and hydraulic results and recommendations model set up might be possible
121000011	City of San Antonio	Bexar	Medina River Holistic Watershed Master Plan	2015	D/O Center M(HWY 1604 East of Somerset Community)	HWY 1604 East of Somerset Community	Oak Island Drainage Improvements. Culvert upgrades at two locations on Oak Island Dr and 1604 with channel work.	No Model provided for this project. Unnamed Tributary 10 in Medina Creek existing conditoions are still undergoing modelling. Possibility of creating a Proposed model condtion for BCA calculations.	

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
MEDIUM	121000010	City of Poth	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 1 Project1 – Detention in East Branch Poth Creek	Detention basin on East Branch Poth Creek	Storage in this area would reduce downstream flooding and remove existing structures from the FEMA floodplain	Additional study needed. Note: Watershed master plan summarizes hydrologic and hydraulic results and recommendations model set up might be possible
	121000090	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2021	Damage Center 19- San Pedro Creek	From San Pedro Creek to North Laredo Street.	San Pedro Creek and is a rectangular channel that runs parallel to North Laredo Street, which is a heavily trafficked road providing access to IH-10. A lateral detention project is recommended to reduce the Camaron Street spill which will also provide	2021 USRMP provided additional study and analysis to damage center 19. BCR can be calculated with information provided.
	121000085	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 3- Zarzamora Creek	Upstream of Garza Park to approximately 780 feet downstream of Ingram Road	A channelization option was considered only for the area upstream of the pedestrian bridge, adjacent to Garza Park. The proposed earthen channel would begin upstream of the pedestrian bridge and end approximately 780 feet downstream of Ingram Road	Ask SARA about updated floodplains
	121000093	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 32-Six Mile Creek	Vickers Avenue on the north side and by I-35 on south side	the proposed pond would have a direct impact on the flow in Normoyle Ditch, it is recommended that the required drainage structures be reanalyzed	Ask SARA about updated floodplains
	121000018	City of Leon Valley	Bexar	Huebner Creek CAP 205/	2021	Huebner Creek Flood Control Project Segment 1	Starting at Bandera Rd Bridge to Evers road	The channel will be widened to 50" in front of Raymond Rimkus Park (6440 Evers Road) and then widened more from the park to the bridge.	
	121000063	City of San Antonio	Bexar	Leon Creek Watershed Master Plan Phase 3	2011	Huebner Creek Flood Protection Barrier	upstream of Ingram Road	This project includes proposed Flood Protection Barrier between Ingram Road and Culebra Road	Regional
	121000033	City of Bulverde	Comal	City of Bulverde Mapping Improvements Indian Creek Drainage Report	2016	Indian Creek Mapping Improvements	Indian Creek	Alternative Analysis and Project recommendation	Regional
	121000070	City of Balcones Heights	Bexar	Upper Woodlawn Lake Drainage Study	2014	Woodlawn Lawn Lake Option 1(Phase 1-3)	Hillcrest Drive to Balcones Heights Rd	Detention, Storm drain improvements, Culvert Improvements, Roadway Improvements	Completed H&H proposed analysis within report. Model not provided. Track down model and update the BCA
	121000069	City of Balcones Heights	Bexar	Upper Woodlawn Lake Drainage Study	2014	Woodlawn Lawn Lake Option 2	Hillcrest Drive to Balcones Heights Rd	Detention, Storm drain improvements, Culvert Improvements, Roadway Improvements	Completed H&H proposed analysis within report. Model not provided. Track down model and update the BCA
HIGH	121000126	Wilson County	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Wilson 10 - Acquisitions of Flooded Structures	Engineering Project Planning	Study to locate flooded structures to remove them out of the SFHA and restrict future structures from development on the site. Removal of damaged structures that are no longer liveable.	Need a study and detailed cost estimate
	121000153	City of Floresville	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Property acquisition and demolition and/or relocations	Engineering Project Planning	Study: Acquisitions for repetitive loss structures	Need a study and detailed cost estimate
	121000005	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	7420 Rolling Acres Trail Low Water Crossing	7420 Rolling Acres Trail	Low Water crossing moves toward home on Meadow Creek Trail. Road Closure gate is deployed at this crossing during large storm events HIGH LOE	

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
	121000002	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	7820 Rolling Acres Trail	7820 Rolling Acres Trail	Low water crossing. Road closure gate is deployed at this crossing during large storm events HIGH LOE	
	121000004	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	Ammann Road Low Water Crossing	341 Ammann Road Low Water Crossing	Low water crossing runs over the street due to insufficient culverts that pass under Ammann Road. Replacing the current road with an elevated concrete bridge above the flood stage.HIGH LOE	
	121000016	City of Helotes	Bexar	Projects for Flood Risk in Helotes	2016	Antonio Drive Drainage Improvements	Los Reyes Creek at Antonio Dr	Bridge at Los Reyes Creek and Antonio Dr HIGH LOE	
	121000007	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	Battle Intense LWC Flow-activated Sensors	Battle Intense LWC	Add flow-activated sensors and automated drop-down arms to close off a road when the water has surpassed the road. HIGH LOE	
	121000050	City of San Antonio	Bexar	Medina River Holistic Watershed Master Plan	2015	D/O Center A (Old Pearsall road at Medio Creek)	Old Pearsall Road 410 Southwest	Old Pearsall Rd overtopping at Medio Creek Bridge and backwater conditions created from Railroad Bridge DS Old Pearsall rd. HIGH LOE	
	0	City of San Antonio	Bexar	-		LC-44 Huebner Creek at Evers Rd. NWWC	Huebner Creek from Apple Green Rd. to Evers Rd.	The project consists of increasing conveyance by widening the existing Huebner Creek as a grass-lined channel, proposing a new bridge at the Apple Green Rd. crossing, and improving the culvert crossing at Evers Rd - HIGH LOE	
	121000026	City of San Antonio	Bexar	Project Summary Sheet	2022	LWC #153 W.W. White at Rosillo Creek	WW White at Rosillo Creek	Improving the bridge and or creekway to reduce the frequency at which flood waters result in closure of WW White. Existing High Water Detection and Flood Warning signal systems could then be removed from this location. HIGH LOE	
	121000078	City of San Antonio	Bexar	Project Summary Sheet	2022	LWC #34 Sleepy Hollow @ Sunburst	Sleepy Hollow @ Sunburst	This project requires the placement culverts or a bridge to eliminate a low water crossing . Street Reconstruction includes driveway approaches, curbs, and sidewalks as required. HIGH LOE	
	121000023	City of San Antonio	Bexar	Project Summary Sheet	-	LWC #71 Danville and Overbrook	Danville and Overbrook	This project requires the replacement of existing low water crossing on Danville with an upgraded culvert (2-10'X10' MBC) or bridge to eliminate a low water crossing with some channel modifications upstream and downstream of the crossing. Street reconstr - HIGH LOE	
	121000095	Kendall County	Kendall	Kendal County	2022	LWC at Ammann Rd and Post Oak Creek	Ammann Rd and Post Oak Creek	Improve the low water crossing at Ammann Road and Post Oak Creek which is frequently flooded HIGH LOE	
	121000100	City of San Antonio	Bexar	Project Summary Sheet	2019	LWC# 101 Rittiman Creek @ Gibbs Sprawl	On the east side of San Antonio upstream of Gibbs Sprawl Road and just north Lou Kardon Memorial Park	This proposed planning study adds culverts at the railroad crossing, upgrades the earthen channel in the park from the westerly property line to Rittiman road, and installation of larger box culverts at the Gibbs Sprawl LWC which requires Gibbs Sprawl to HIGH LOE	
	121000021	City of San Antonio	Bexar	Project Summary Sheet	2010	LWC#41 Vance Jackson 200ft south of Scenic	From Scenic intersection to 400' South on Vance Jackson; 200' channel upstream and downstream from Vance Jackson	Low Water Crossing needs Bridge/Culvert Improvements with possible advanced warning signals. Associated street reconstruction to include curbs, sidewalks, and driveway approaches be incorporated into the project. HIGH LOE	
	121000077	City of San Antonio	Bexar	Project Summary Sheet	2019	New Sulphur Springs – East of Lodi Rd	New Sulphur Springs Rd -	This project will install a cross arm/barricade at the LWC. Construction of a bridge or culvert installation was considered at this location however, both options were deemed to not be cost effective given the location and the amount of traffic traversin HIGH LOE	
	121000055	City of Helotes	Bexar	Projects for flood risk Reduction in Helotes	2016	Parrigin Road Drainage Improvements	Parrigin Road crossing of Helotes Creek Tributary A near Indian Trail	Parrigin Road low water crossing at Helotes Creek Tributary A floods frequently, limiting access for nearby residences HIGH LOE	

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
	121000008	City of Fair Oaks Ranch	Bexar	City of Fair Oaks Ranch Master Drainage Plan	2018	Rolling Acres Trail LWC Flow-activated Sensors	Rolling Acres Trail LWC	Add flow-activated sensors and automated drop-down arms to close off a road when the water has surpassed the road. HIGH LOE	
	0	City of Shavano Park	Bexar	Preliminary Engineering Report	2020	Turkey Creek	NW Military north of Turkey Creek	This area of concern consists of a natural low that drains from NW Military north of Turkey Creek, through the neighborhoods across Honeybee Lane, Turkey Creek Road, and Long Box Road. Proposed Conditions include would consist of a 36-inch pipe within the NW Military Highway to convey runoff from the northern culvert crossing to the southern crossing The remaining downstream system would consist of 5'x5' and 7'x5' box culverts that convey runoff from the southern culvert to the existing low water crossing on Long Bow Road. From this point, an earthen channel would need to be constructed across private property to provide positive drainage to Olmos Creek HIGH LOE	
	121000102	City of San Antonio	Bexar	Cibolo Creek Watershed Holistic Master Plan	2018	Upper Martinez Creek Improvements	Woodlake Pkwy	Improvements to already channelized section of Martinez Creek (Cibolo Watershed) from Montgomery Dr to Walzem Rd and bridge improvements at Gibbs Sprawl Road HIGH LOE	
	121000022	City of San Antonio	Bexar	Project Summary Sheet	2022	LWC 100, Blakeley Area Drainage Improvement	Blakeley Drive - 200' West of Vandiver	This option consists of upsizing the Blakeley crossing to (3) 6'x3' RCB and providing a 7' bottom width concrete trap channel with 3:1 side slopes upstream of the crossing.	Not enough information provided. Discussed with City of San Antonio Abigail Knott and Erin Cavazos and no additional information is available.
	121000031	City of San Antonio	Bexar	Project Summary Sheet	2019	Apache Creek & Elmendorf Lake Dam	Bounded by Northwest 26th Street, West Commerce and Southwest 19th Street	The Elmendorf Lake Dam area is prone to flooding and will require an extensive drainage project to mitigate the floodplain. A Preliminary Engineering Report (PER) will need to be provided to assess a feasible solution	Not enough information provided. Discussed with City of San Antonio Abigail Knott and Erin Cavazos and no additional information is available.
	121000032	City of Bulverde	Comal	City of Bulverde Mapping Improvements Cibolo Creek Tributary 19 Drainage Report	2016	Cibolo Creek Tributary 19 Mapping Improvements	Cibolo Creek Tributary 19	Alternative Analysis and Project recommendation	No proposed analysis done just alternatives recommended. Report contains
	121000060	City of San Antonio	Bexar	Leon Creek Watershed Master Plan Phase 3	2011	Culebra Creek Tributary A at Tezel Road Enhanced Conveyance	Located along Culebra Creek Tributary A between Dover Ridge and Tezel Road	Increasing the flow area by widening the channel and increasing its side slopes.	No model provide but 2011 map exhibits shows structures with in floodplain. Proposed models could be modeled.
	121000012	City of Stockdale	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 1 (Stockdale Creek)	Stockdale Creek between State Highway 123 and U.S. Highway 87	Stockdale Creek Stream Restoration with a natural channel design	No model available. Larger area of stream restoration. Need to confirm BCA requirements for Stream Restoration.

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HIGH	121000051	City of Poth	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 1 Project2A – Improved crossing at U.S. Highway 181	Upgrade Hwy 181 crossing at East Branch Poth Creek	Additional Box Culverts to U.S. Highway 281 Crossing/Crossing Replacement with a 100-foot Bridge Section	No Model available. Phased project with Detention in East Branch Poth Creek. Both project removes 20 structure from 100-yr. Possibility of modelling proposed conditions
	121000054	City of Stockdale	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 2 (South Tributary to Stockdale Creek)	South Tributary to Stockdale Creek	Detention South Tributary to Stockdale Creek near the eastern city limit	NO model available
	121000068	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 2- Martinez Creek	Bound by Interstate 10 to the south, Vance Jackson Road to the west, West Avenue to the east, and Wayside Drive to the north	The downstream culvert system creates a backwater which will continue to affect properties near the inlet of that structure. Improved channelization and culvert/bridge replacement and voluntary property acquisition	
	121000091	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 20- Matinez Creek	Fredericksburg Road to the north, Interstate 10 to the east, Culebra Road to the south, and North Calaveras Street to the west	A significant number of houses within this damage center flood during the 10% AC storm event. Lateral detention is a viable alternative for this project and could be used in conjunction with VPA, and reduced channelization, to meet the	
	121000092	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 23-New Braunfels, Austin Hwy, Broadway Drain	The project area is from Broadway Street at Burr Road north to New Braunfels Avenue at Nottingham Drive	Reduce regional flooding and remove secure safe passage during 100 yr. event. Utilizes a combined regional and local trunkline of 4'x4' and new outfall near Patterson Avenue.	
	121000097	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 31- Rockwood Creek	east of the San Antonio River south of US90 and east of US37	there are residential lots that abut the top of bank of the creek. the floodplain limits of the effective DFIRM model are incorrect based on the DFIRM hydrology if the hydrology is re-evaluated to take into account the limiting factor of t	
	121000094	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 34- State Hospital Creek	From Hot Wells Blvd across IH-37 to sally gay drive.	The culvert system under IH-37 and Hillje Street is severely undersized, causing water to pond and overtop the median concrete barriers both the detention basin and the channelization project will have to be constructed to remove all structures from	
	121000065	City of San Antonio	Bexar	Salado Creek Watershed Master Plan Report-Phase 1	2011	Damage Center 3- Lorence Creek	Between US Hwy 281 and Jones Maltsberger Drive	Approximately 10,000 feet of channel improvement. The proposed drainage improvements reduces the occurrence of structural flooding in several areas along the banks of the creek.	No Model
121000030	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 4- Apache Creek	West Woodlawn Avenue and northwest 36th	Majority of the flooding is caused by the undersized culverts downstream of West Woodlawn, providing addition of box culverts will provide adequate capacity to the existing storm drain system	No Model	

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
HIGH	121000029	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 43- Olmos Creek Middle Reach near DeZavala	This damage center is between DeZavala Road and Huebner Road to the east side of Lockhill-Selma Road	The depth of flooding for the 100-year event ranges between 0.10 and 3.82 feet, therefore, buyouts do not appear to be a practical solution	Property Acquisitions
	121000064	City of San Antonio	Bexar	Salado Creek Watershed Master Plan Report-Phase 1	2011	Damage Center 5- Salado Creek Trib F	Extends from Classen Road to the north to south Thousand Oaks Drive	Approximately 4,487 feet of channel improvements as well as constructing two inline reservoirs.	
	121000086	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 6- Martinez Creek	IH-10 near Fresno Drive and exit back under IH-10 near West Summit Avenue	Voluntary Property Acquisition is the only option that would be recommended under current regulatory and funding scenarios	
	121000087	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 7- Zarzamora Creek	Commerce Street and North General McMullen	Based on the value of the homes within this damage center, VPAs appear to be a practical option that may be well received	
	121000088	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 9- Alazan Creek	Guadalupe Street between Cornal and San Marcos Streets	severe flooding upstream of South Colorado Street, where the majority of the buildings flood during the 10&50 yr. Channel improvements	
	121000066	City of San Antonio	Bexar	Salado Creek Watershed Master Plan Report-Phase 1	2011	DC13/14: Walzem Creek	Downstream of Windway Drive; between Judivan and Walzem Road	A proposed combination of regional detention and channel improvement to reduce flooding on Walzem Creek. Conveyance improvements were used to reduce peak flood stages downstream of Windway Drive and upstream of Judivan, while offline detention was used t	
	121000019	City of San Antonio	Bexar	Salado Creek Watershed Master Plan Report-Phase 1	2011	DC19: Salado Creek Tributary B	Along martin Luther King Dr and IH 10	Improvement on IH 10 culvert crossing to reduce peak flood stages upstream of IH 10 channel improvements downstream of IH 10 to prevent peak flood stage increase	
	121000020	City of San Antonio	Bexar	Salado Creek Watershed Master Plan Report-Phase 1	2011	DC20: Rosillo Creek Unnamed Tributary 1	Along Diane Road between WW White Road and Loop 410	Upgrade Diane Road and construct drainage improvements	
	121000057	City of Helotes	Bexar	Projects for Flood Risk in Helotes	2016	Detailed Study of Culebra Creek Trib C	Culebra Creek Trib C	Detailed H&H study of Culebra Creek Trib C	
	121000056	City of Helotes	Bexar	Projects for Flood Risk in Helotes	2016	Detailed Study of Unnamed Trib 3 to Helotes Creek	Unnamed Trib 3 to Helotes Creek Trib	Detailed H&H study of Unnamed Trib 3 to Helotes Creek Trib	
	121000047	City of Stockdale	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Detention/Retention pond on school property	City of Stockdale	Install a Detention/Retention pond and reservoir to store excess stormwater on school property along Fordham Street	
	121000038	City of Stockdale	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Develop and implement a Stormwater Management Plan for Stockdale Creek	City of Stockdale	Stockdale Creek, a tributary of Clinton Branch which flows into Cibolo Creek, does not have sufficient capacity to contain floodwater as it flows through the center of Stockdale. The railroad on the east side of town used to act as a levee, but when it w	
121000045	City of Stockdale	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Drainage improvements to wastewater treatment plants	City of Stockdale	A drainage improvement was completed in 2018 with 2016 disaster relief funding. Internal plumbing was buried and the size of the weir box was increased. Funding and improvements are still needed to connect 2 and 3 and cross CR401 to increase discharge ca		

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
HIGH	121000043	City of Poth	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Drainage Study Marcelinas Creek and its major tributary	City of Poth	Marcelinas Creek has a floodplain that runs through the center of the city. Install stream gauges and identify alternatives to mitigate flooding. Implement study findings.	
	121000017	City of San Antonio	Bexar	Leon Creek Watershed Master Plan Phase 3	2011	French Creek at Guilbeau Road NWWC	Downstream of Guilbeau Road	A basic trapezoidal channel with side slopes of 3:1, representing an earthen channel	
	121000059	City of San Antonio	Bexar	Leon Creek Watershed Master Plan Phase 3	2011	French Creek RSWF	Upstream of Loop 1604 on French Creek	An on-channel RSWF provides approximately 150 acre-feet of storage	
	121000061	City of San Antonio	Bexar	Leon Creek Watershed Master Plan Phase 3	2011	Helotes Creek at Bandera Road Enhanced Conveyance	Between Scenic Loop and Bandera Road	Channel modifications were designed as a basic trapezoidal channel with side slopes of 3:1	
	121000062	City of San Antonio	Bexar	Leon Creek Watershed Master Plan Phase 3	2011	Helotes Creek RSWF	West of Texas Highway 16 and Loop 1604N	An off-channel RSWF provides approximately 3330 acres-ft oof storage.	
	121000042	City of Poth	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Install early warning systems	City of Poth	Conduct a feasibility study that evaluates the coverage area, property ownership and availability, power requirements, telemetry requirements, technology, cost, and other local considerations. Based on study findings, install an emergency warning systems	
	121000099	City of Poth	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Install pipe gates to close off streets	City of Poth	Install automated systems at low-water crossings with high rate of vehicular access resulting in frequency of accidents and loss of life.	
	121000034	City of Falls City	Karnes	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Inventory of residences in floodplain	City of Falls City	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquisition.	The first steps are done with the analysis done for existing conditions. The steps would be to figure out costs for floodproofing or voluntary acquisition
	121000034	City of Karnes City	Karnes	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Inventory of residences in floodplain	City of Karnes City	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquisition.	The first steps are done with the analysis done for existing conditions. The steps would be to figure out costs for floodproofing or voluntary acquisition
	121000034	City of Kenedy	Karnes	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Inventory of residences in floodplain	City of Kenedy	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquisition.	The first steps are done with the analysis done for existing conditions. The steps would be to figure out costs for floodproofing or voluntary acquisition
121000034	City of Runge	Karnes	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Inventory of residences in floodplain	City of Runge	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquisition.	The first steps are done with the analysis done for existing conditions. The steps would be to figure out costs for floodproofing or voluntary acquisition	
121000013	City of Falls City	Karnes	Holistic Watershed Master Plan Wilson, Karnes, and Goliad Counties	2015	Karnes County Damage Centers Karnes A	US 181 and San Antonio River	Multiple structures at risk Within San Antonio River at US 181		

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Notes
HIGH	121000014	City of Falls City	Karnes	Holistic Watershed Master Plan Wilson, Karnes, and Goliad Counties	2015	Karnes County Damage Centers Karnes B	US 181 and San Marcelinas creek	Multiple structures at risk Within Marcelinas Creek at US 181	
	121000009	City of Kenedy	Karnes	Holistic Watershed Master Plan Wilson, Karnes, and Goliad Counties	2015	Karnes Hwy at Escondido Creek	City of Kenedy	Raise bridge on Hwy and channel expansion on 181/5th in Kenedy	
	121000076	City of San Antonio	Bexar	Project Summary Sheet	2022	LWC #13 West Ave. @ Interpark	Approximately 800 FT Southwest of Interpark	Since approximately 2006, residents have complained about flooding within a low point on West Ave. Approximately 173 acres drains through this area. This project will construct an underground drainage system with an earthen channel to convey the storm wa	Proposed solution available but needs H&H analysis
	121000075	City of San Antonio	Bexar	Project Summary Sheet	2019	LWC #15 Copperhill Between Parkstone & Happy Hollow	Between Parkstone & Happy Hollow	Low Water Crossing #15 has approximately 128 acres of storm water that is conveyed through this crossing. This project proposes to construct an underground drainage system to assist in the conveyance of runoff crossing through this section of the street.	Proposed solution available but needs H&H analysis
	121000028	City of San Antonio	Bexar	Project Summary Sheet	2019	LWC #159.1 Southton Rd	Southton Rd. - 0.5 mile West of IH 37	The proposed project will replace the existing culvert system with a bridge approximately 1500' in length.	Proposed solution available but needs H&H analysis
	121000072	City of San Antonio	Bexar	Project Summary Sheet	-	LWC 112.1 Pvt Rd. 300' North of Marbcah Rd.	LWC 112.1/Pvt Rd. - 150' South of Meadow Leaf LWC 112.2/Meadow Way - 200' South of Meadow Leaf	Project consists of channel improvements and an outfall to Slick Creek to alleviate street flooding. Channel improvements include installing 10x4 MBC along the channel to improve flow at this portion of Slick Creek.	Proposed solution available but needs H&H analysis
	121000073	City of San Antonio	Bexar	Project Summary Sheet	2021	LWC No 113-116 and Associated Channel Improvements	Drainage Channel - U.S. Hwy. 90W access road to Martinique Dr.; Martinique Dr. - to 725 ft. east of Westward Dr.	This project proposes to upgrade LWC 115 & 116 and construct an underground storm system on Military to tie into the existing earthen channel. The underground system will consist of 10' curb inlets, 6'x3' box culverts, 24"-42" Reinforced Concrete Pipes	Proposed solution available but needs H&H analysis
	121000074	City of San Antonio	Bexar	Project Summary Sheet	2019	LWC# 91 Weidner 500 ft N of Schertz	Weidner Rd	Construct a bridge on Weidner Rd. to pass a 100 yr. storm to replace LWC# 91, to include curbs and sidewalks. This project will require channel excavation. This LWC is not within a FEMA floodplain.	Proposed solution available but needs H&H analysis
	121000025	City of San Antonio	Bexar	Project Summary Sheet	2019	LWC#156 New Sulphur Springs Rd – btwn S. Foster & Gardner	New Sulphur Springs Rd. - 1-mile East of S. Foster Rd.	The proposed project will replace the existing culvert system with a bridge approximately 1500' in length. The proposed bridge will span two streams at this location	Proposed solution available but needs H&H analysis
	0	City of San Antonio	Bexar	Project Summary Sheet	-	LWC#42 Dreamland south of RR Xing	Dreamland from RR to 550' West of RR Crossing; 1600 LF North and 4700 LF South of Dreamland LWC	The project will consist of proposed Bridge crossing with +/- 6300 LF of total channel grading upstream and downstream and excavating to eliminate a low water crossing. Street reconstruction includes driveway approaches, curbs, and sidewalks as required	Proposed solution available but needs H&H analysis
	121000079	City of San Antonio	Bexar	Project Summary Sheet	2020	LWC#72 Spencer Lane, east of Balcones Rd.	Spencer lane	During a rain storm event, storm water runoff from the East Woodlawn Ditch overtops the road. This project proposes the construction of a culvert crossing to include an associated energy dissipation system, headwall, and outfall structures.	Proposed solution available but needs H&H analysis
	121000024	City of San Antonio	Bexar	Project Summary Sheet	2019	LWC157 New Sulphur Springs Rd – East of Beck Rd	Approximately 240 LF east of Beck Rd.	The proposed project will install 4-10' x 9' MBC at the LWC and reconstruct the portion of New Sulphur Springs Rd. affected by the culvert installation. The proposed street reconstruction will not include sidewalks or curbs.	Proposed solution available but needs H&H analysis
	121000080	City of San Antonio	Bexar	Project Summary Sheet	-	Mahncke Park Outfall	Broadway at Funston	To convey the 100-yr ultimate development and relieve the current backwater conditions. This project proposes drainage improvement to watershed SA4.To reduce clogging and increase efficiency.	Proposed solution available but needs H&H analysis

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HIGH	121000101	City of Stockdale	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Maintain Drainage System	City of Stockdale	Improve storm water drainage within residential and commercial areas by removing brush and debris, opening and widening waterways, restricting building in the flood zone, and widening bridges. Status or project was 90% complete in 2012 plan awaiting purc	
	121000015	City of Selma	Bexar	-	2022	Master Drainage Plan	City of Selma	A detailed drainage study of the city of Selma	
	121000037	City of Poth	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Mitigate local flooding in identified problem areas	City of Poth	Identify problem flooding areas and implement a program to reduce localized flooding	
	0	City of San Antonio	Bexar	-			Mulberry Ave. Bridges from N St Marys St to Red Oak	Study of Mulberry Avenue and the historic San Antonio Zoo Rail Road bridge. Flows over Mulberry Ave will be reduced to a level allowed by City drainage criteria. Improvements include channelizing the San Antonio River approximately 1,600 ft downstream of Mulberry Ave with bottom widths ranging from 100 ft to 160 ft. The proposed channel would maintain 3:1 side slopes and allow for natural channel growth rather than being maintained. Although only 1 building would be removed from the regulated 100-year ultimate floodplain, Mulberry Ave would be improved to a "Proceed with Caution" Level of Service from "Unsafe". Additionally, a significant amount of open space area upstream of Mulberry Ave is removed from the floodplain which could tie into the surrounding park and trails system. NOTE that part of the San Antonio River in this area is considered a Wetland and that a 404 permit from the U.S. Army Corp of Engineers will be required. Also, this project will need to be evaluated for downstream impacts to ensure it does not cause a negative impact to downstream floodplain limits or structures HIGH LOE	
	121000046	City of Stockdale	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	New Bridges on 6th and 8th Streets	City of Stockdale	New construction of waterway bridges on 6th and 8th Streets crossing Stockdale Creek. Lift elevation profile of the two bridges that provide access to critical facilities and services within the city as well as access from the City to the surrounding reg	
	121000071	City of San Antonio	Bexar	-	-	Normoyle Ditch - Alt 1	Wabash St from 200 Ft north of New Laredo Hwy to Wagner Av	Channel improvements are proposed from the Six Mile Creek outfall up to approximately 200 feet upstream of New Laredo Hwy. The project area was limited to the area south of Kelly AFB as the majority of habitable structures area located south of New Lared	
	121000001	City of Runge	Karnes	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Study the San Antonio River, Ojo de Agua Creek and its tributaries	City of Runge	Install steam gauges and develop a study to identify solutions to flooding. Implement engineering findings to reduce and mitigate risks.	I feel like this should have been two separate FMEs.

TASK 12 - RECOMMENDED FME

LOE	FME ID	Community /Sponsor	County	Source Name	Source Date	Project Title	Project Type	Project Description	Consultant Notes
LOW	121000156	City of La Vernia	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Repetitive loss properties	Regulatory and Guidance	Study: Offer relocation/mitigation incentives to current flood hazard area property owners; initiate a community program to acquire repetitive loss structures identified by FEMA.	Detailed Study? Repedative losses total = 3 in 2020, detailed cost estimate
	121000155	City of Floresville	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 1: Project 1A, 1B, 1C	Engineering Project Planning	PER: Detention upstream of Lost Springs Hollow along with some channel work. Upgrade Hwy 181 crossing at Lodi Branch and channelization (contingent of Project 1A).	Yes, model. Need to No Impact Analysis and Benefit cost ratio?
	121000123	City of La Vernia	Wilson	Overall Preliminary Drainage Report	2022	Issue #2 and #3 (City Park/La Vernia ISD)	Engineering Project Planning	Study to assess 6'-wide concrete-bottom channel/sidewalk with earthen sides (graded 5:1) be constructed through this area to better define the flow path. Gauge boards on San Antonio Road. Acquire 25'-wide drainage easements.	waiting on Model, will need BCA
	121000122	City of La Vernia	Wilson	Overall Preliminary Drainage Report	2022	Issue #5 (HWY 87 Crossing & CR 342 Crossing)	Engineering Project Planning	Study to assess city acquire drainage easements in the area upstream of the Highway 87 crossings, as well as the area between the crossings at Highway 87 and the crossing at CR 342. Easement acquisition would allow for the construction of a defined channel through these sections.	waiting on Model, will need BCA
	121000151	Bexar County	Bexar	Bexar County Sponsor Outreach	2022	Bexar County Line LWC Engineering Study	Engineering Project Planning	Engineering Study to evaluate twelve LWC upgrades at county line	Easy Engineering study to do in the amendment
	121000164	Bexar County	Bexar	Bexar Sponsor Outreach	2022	Bexar County LWC Engineering Study	Engineering Project Planning	Engineering Study to evaluate seven LWC upgrades.	Easy Engineering study to do in the amendment
	123000029	City of San Antonio	Bexar	Sponsor Outreach	2022	Concepcion Creek Improvements Project	Comprehensive Regional Project	Ph1. 54-ac detention, property acquisition and 10,000ft of storm drain systems and road reconstruction. Ph2. 1.36mi of Concepcion Creek channel improvements. Ph3. 2,300ft of (3)10x8 MBC systems	Model yes, need BCA
	121000089	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2021	Damage Center 14- Airport Trib	Loop 410 on the north side and US 281 on the east and south side	There are four bridges within this Damage Center, of which all overtop during the 1% AC storm event. Voluntary Acquisition of 79 residential properties that are compromised	Property Acquisition
	121000052	City of Poth	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 2- Project 1 Culvert Improvements at Manchaca	Menchaca (CR220) crossing at Poth Creek	Significant overtopping at one 3' x 5' box culvert. Improving this culvert would provide emergency access to the areas of Poth west of Poth Creek	
	121000084	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 38- Olmos Creek Lower Reach Near Montview	Jackson Keller Road and West Avenue just downstream of the confluence of Rock Creek and Olmos Creek	Flooding occurs on the left overbank and begins just upstream of Montview. A total of 10 lots are impacted by the 100-year storm event and the depth of flooding ranges between 0.10 and 0.15 feet. Flood depths are less than 0.5 feet; therefore	
	121000083	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 39- Olmos Creek and Olmos Creek East Channel	Jackson Keller Road and West Avenue between Damage Center 38 and NW Loop 410	Antonian High School is just downstream of this damage center. There are a total of eight parcels that are flooded by the 100-year storm event. Flood-proofing appears to be a practical approach for these properties. Flood-proofing/Elev	
	121000082	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 40-San Antonio River DS Reach near Roosevelt	Bound on the east side by S. Presa St and downstream of Mission Road.	Three lots have 100-year flood depths greater than 2 feet and were therefore not considered for flood-proofing. Due to its location between parks, it appears reasonable to be buyout the flooded properties and continue the park area along th	Property Acquisition
	121000081	City of San Antonio	Bexar	UPPER SAN ANTONIO RIVER MASTER PLAN	2013	Damage Center 44-San Antonio River Near Center Road	S. Blue Wing Road on the south and Southton Road on the north east	This area consists of large agricultural lots. Buyouts appear to be the best option since the entire damage center is in the floodplain. The area can be converted to a recreational water park area or pavilions to encourage biking and w	Property Acquisition

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LOW	0	City of Shavano Park	Bexar	Preliminary Engineering Report	2020	De Zavala/ Ripple Creek	Bikeway Ln and Da Zavala	Currently a ridge transverses through the munitract with a northwest portion of the munitract property sheet flowing onto existing lots along Bikeway Ln and the southwest portion of the munitract sheet flows towards an existing low and culvert crossing located at De Zavala. The proposed option to mitigate the drainage concerns within this area include capturing on the southern side of Da Zavala with a storm drain and conveying the runoff along De Zavala and discharging into Olmos Creek at De Zavala	
	0	City of Shavano Park	Bexar	Preliminary Engineering Report	2020	Elm Spring	Bikeway Lane and Elm Spring Ln intersection	This flooding creates dangerous driving conditions and flood multiple homes, At the Bikeway Lane and Elm Spring Ln intersection, the proposed underground drain will be constructed between the existing homes past their rear property lines. At this point, an earthen channel will be constructed on private property to convey the runoff across the property and discharge into Olmos Creek. HIGH LOE	
Medium	121000053	City of Poth	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 2- Project 2 Road connection from Mosspoint to Sunshine	Mosspoint Street to FM 541 at Sunshine Drive	During a large storm event, access to and from residences adjacent to Mosspoint Street is compromised. MEDIUM LOE	Regional
	121000098	City of Bulverde	Comal	Cibolo Creek Watershed Holistic Master Plan	2018	FM 1863 at Cibolo Creek LWC	FM 1863 Bulverde	Replace low water crossings at two locations where FM1863 crossing Cibolo Creek with bridges MEDIUM LOE.	Regional
	121000096	Kendall County	Kendall	Kendal County	2022	LWC at Old Fredericksburg Rd and Balcones Creek	Old Fredericksburg Rd and Balcones Creek	Improve low water crossing at Old Fredericksburg Rd and Balcones Creek MEDIUM LOE - EMERGENCY NEED	Regional
	121000044	City of Poth	Wilson	Karnes and Wilson Counties Hazard Mitigation Plan	2020	Build Detention Pond	City of Poth	Phase I: Perform a study to evaluate Poth Branch Watershed - Phase II: Purchase land and construct a drainage infrastructure facility in accordance with the engineering recommendations of the study.	Additional study needed. Note: Watershed master plan summarizes hydrologic and hydraulic results and recommendations model set up might be possible
	121000011	City of San Antonio	Bexar	Medina River Holistic Watershed Master Plan	2015	D/O Center M(HWY 1604 East of Somerset Community)	HWY 1604 East of Somerset Community	Oak Island Drainage Improvements. Culvert upgrades at two locations on Oak Island Dr and 1604 with channel work.	No Model provided for this project. Unnamed Tributary 10 in Medina Creek existing conditions are still undergoing modelling. Possibility of creating a Proposed model condition for BCA calculations.
	121000010	City of Poth	Wilson	Wilson County Watershed Master Plan	2012	Damage Center 1 Project1 – Detention in East Branch Poth Creek	Detention basin on East Branch Poth Creek	Storage in this area would reduce downstream flooding and remove existing structures from the FEMA floodplain	Additional study needed. Note: Watershed master plan summarizes hydrologic and hydraulic results and recommendations model set up might be possible
	121000063	City of San Antonio	Bexar	Leon Creek Watershed Master Plan Phase 3	2011	Huebner Creek Flood Protection Barrier	upstream of Ingram Road	This project includes proposed Flood Protection Barrier between Ingram Road and Culebra Road	Regional
	121000070/121000069	City of Balcones Heights	Bexar	Upper Woodlawn Lake Drainage Study	2014	Woodlawn Lawn Lake Option 1 or 2	Hillcrest Drive to Balcones Heights Rd	Detention, Storm drain improvements, Culvert Improvements, Roadway Improvements	Completed H&H proposed analysis within report. Model not provided. Track down model and update the BCA