

GBRA

Guadalupe-Blanco River Authority

Your Trusted
Water Resource

GBRA.ORG

Region 11: Guadalupe Regional Flood Planning Group Meeting

Wednesday, May 3, 2023
2:00pm

Agenda Item 1

Call to Order

1. Attendance
2. Individuals attending in-person, please sign-in

Welcome

Agenda Item 2

Agenda Item 3

Approval of Meeting Minutes

1. Approval of meeting minutes from April 5, 2023
Region 11 RFPG Meeting.

Meeting Minutes
Region 11 Guadalupe Regional Flood Planning Group Meeting
April 5, 2023 at 2:00 PM

Guadalupe-Blanco River Authority River Annex (905 Nolan Street, Seguin, TX 78155)

Roll Call:

<u>Voting Member</u>	<u>Interest Category</u>	<u>Present (x) / Absent () / Alternate Present (*)</u>
Doug Miller Melissa Reynolds*	<i>Agricultural</i>	
John Johnston	<i>Counties</i>	X
Lon Shell	<i>Counties</i>	X
Bobby Christmas	<i>Electric Generating Utilities</i>	
Annalisa Peace Bill Barker*	<i>Environmental</i>	X
Doug Sethness Jennifer Urban*	<i>Flood districts</i>	X
Kevin Stone	<i>Industries</i>	
Joseph Pantalion John Espinoza*	<i>Municipalities</i>	X
Ken Gill	<i>Municipalities</i>	X
Dr. Kimberly Meitzen	<i>Public</i>	X
R. Brian Perkins Charlie Hickman*	<i>River Authorities</i>	X
Tara Bushnoe	<i>River Authorities</i>	
Gian Villarreal Tami Norton*	<i>Small Business</i>	X (arrived at 2:01pm)
Ronald (Ron) Fieseler Ben Eldridge*	<i>Water Districts</i>	* (arrived at 2:17pm)
Steven Fonville	<i>Water Utilities</i>	X (arrived at 2:01pm)

<u>Non-voting Member</u>	<u>Agency</u>	<u>Present(x)/Absent() / Alternate Present (*)</u>
Sue Reilly Beth Bendik*	Texas Parks and Wildlife Department	
Hollie Hischer Bierbauer	Texas Division of Emergency Management	
Jami McCool Kristin Lambrecht*	Texas Department of Agriculture	*
Allen Nash	Texas State Soil and Water Conservation Board	
Kris Robles Teresa Williams*	General Land Office	
Ryke Moore	Texas Water Development Board (TWDB)	X
Joel Klumpp	Texas Commission on Environmental Quality	
Don Durden	Public	X
Doris Cooksey	Region 12 Liaison	X
Patrick Brzozowski Scott Hartl*	Region 10 Liaison	

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **11**

Number required for quorum per current voting positions of 15: **8**

Other Meeting Attendees:

Lauren Willis, GBRA (Facilitator)

Ram Mendoza, GBRA (IT)

Jay Scanlon, Freese & Nichols, Inc.

Adam Conner, Freese & Nichols, Inc.

Morgan White, Freese & Nichols, Inc.

Velma Danielson, Blanton & Associates

Joyce Yannuzzi, Senator Campbell's Office

Dennis Engelke, Caldwell County

Bill Barker, Great Springs Project

Doug Letbetter, City of Schertz

Marlene Flores, Bastrop County

Claudia Mora, AACOG

Carly Farmer, City of New Braunfels

Melissa Reynolds, City of Seguin

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

AGENDA ITEM NO. 1: Call to Order

Vice-Chairman Johnston called the meeting to order at 2:00 PM. Lauren Willis called roll of the planning group members to record attendance and a quorum was established.

AGENDA ITEM NO. 2: Welcome

Vice-Chairman Johnston welcomed members to the meeting.

AGENDA ITEM NO. 3: Approval of minutes from the January 4, 2023 Region 11 RFPG Meeting.

Vice-Chairman Johnston opened discussion on approving the minutes from the December 7, 2022 Region 11 RFPG Meeting.

A motion was made Joe Pantalio to approve the January 4, 2023 Region 11 RFPG Meeting minutes. Brian Perkins seconded the motion. The meeting minutes were approved by consensus.

AGENDA ITEM NO. 4: Region 11 Guadalupe RFPG Chair Updates

Vice-Chairman Johnston did not have any updates for the RFPG.

AGENDA ITEM NO. 5: Texas Water Development Board (TWDB) Updates

Ryke Moore reviewed the following items: (1) according to the by-laws the terms of office expire in July of 2023, and (2) TWDB is soliciting stakeholder feedback on ranking of FMXs.

AGENDA ITEM NO. 6: Guadalupe Region 11 RFPG Sponsor Guadalupe-Blanco River Authority (GBRA) Updates

Lauren Willis reviewed that Amendment No. 2 between FNI and GBRA is being processed to move funds from GBRA to FNI.

AGENDA ITEM NO. 7: Presentations: Texas General Land Office (GLO) Funding and Ongoing Studies Update

This presentation did not occur as GLO staff was unable to attend. The presentation is being rescheduled for a future date.

AGENDA ITEM NO. 8: Discussion and potential action regarding Region 11 RFPG Technical Consultants work and schedule.

Jay Scanlon with Freese & Nichols overviewed the agenda, topics being covered by the technical consultant team and reviewed Public Comments submitted from January 5, 2023 – April 4, 2023.

a. Discussion and potential action approving additional recommendations to Chapter 8: Legislative, Administrative, and Regulatory Recommendations.

Jay Scanlon led the discussion reviewing Chapter 8 additional recommendations for the following items.

1. Regulatory RFPG or TWDB: Hydraulic Modeling: Require the use of Manning's n-values and channel conditions that would be likely if a channel or project is not maintained.
2. Regulatory RFPG or TWDB: Hydrologic Modeling: Require the use of ultimate development land use conditions in the development of future flows for regulation of floodplains and development of FMPs.
3. Administrative TWDB: Encourage the use of storm shifting to validate 100-yr (1% AEP) storm estimates and to provide a broader understanding of flood risk.
4. Administrative TWDB: Increase funding for Nature Based Solutions and reduce hurdles to their incorporation into the Regional Flood Plans by: Increased training on accurate BCAs; Improving modeling methods; Expanding “negative impacts” to include environmental resources; Incentivize collaboration/prioritization of NBS
5. Administrative TWDB: Ensure TWDB’s BCR tool includes Social and environmental benefits; Reduced negative environmental impacts; as well as damage reduction
6. Administrative TWDB: Recognize impacts of land development codes and development have on flooding: Educate counties on floodplain management authority (8.1.11); Promote and fund NBS; consider policy changes to allow Counties or Groundwater Conservation Districts to protect aquifer storage and recovery features (karst, fracture zones, sinkholes); Partner with other agencies to incorporate flood considerations (e.g. TxDOT)
7. Legislative: Fund a Texas Water Initiative similar to Louisiana's with a robust program on use and adoption of NBS
8. Administrative TWDB: Fund training and technical resources to advance understanding and adoption of NBS and best practices for maintaining floodplains and other natural mitigation features* (very similar w/#4)

9. Administrative TWDB: Utilize all available state and federal programs to prioritize the preservation and restoration of natural flood mitigation features.
10. Administrative RFPG or TWDB: Review submitted FMEs, FMPs, and FMSs to determine feasibility to augment with NBS aspects.
11. Administrative RFPG or TWDB: Refine “future conditions analysis” to better incorporate climate change*
12. Regulatory RFPG: Incorporate additional/higher floodplain management standards* (8.1.2)
13. Administrative RFPG or TWDB: Refine assessment and identification of flood mitigation needs to include additional “critical facilities” such as industrial facilities, superfund sites, or other similar facilities that may pose a high risk to surrounding communities. *
14. Administrative RFPG: RFPG should consider means to increase participation by using a combination of in-person and virtual activities/meetings.
15. Administrative RFPG or TWDB: Refine “no negative impact” to include no impact to natural infrastructure. *

No action was taken.

b. Discussion on proposed methods for ranking recommended flood projects in the state flood plan.

Morgan White with Freese & Nichols led the discussion on the State Flood Plan Ranking for Flood Mitigation Evaluations (FMEs), Flood Management Projects (FMPs), and Flood Management Strategies (FMSs). The RFPG decided to provide comments directly to the TWDB and not as a group.

c. Discussion on use of funds in Task 12 and/or Task 13 to enhance Flood Management Evaluations (FMEs) and Flood Mitigation Projects (FMPs) in the Final plan.

Morgan White suggested the following; 1. To review all final plan FMEs and adjust, as necessary, to ensure each polygon is representative of the study area vs. project area, and 2. To review all FMPs and add in missing data, where possible.

AGENDA ITEM NO.9: Consider date and agenda items for next meeting

The next meeting will be held on Wednesday, May 3, 2023 at 2pm at the GBRA River Annex – 905 Nolan Street, Seguin, TX 78155. The last meeting for this first cycle will held on Tuesday, June 27th at 2pm at the GBRA River Annex.

AGENDA ITEM NO. 10: Public General comments (Public comments limited to 3 minutes per speaker)

No public comments given.

AGENDA ITEM NO. 11: Adjourn

Brian Perkins made a motion to adjourn. The motion was seconded by Joe Pantalio. The motion passed by unanimous consent.

The meeting adjourned at 3:55 PM by Vice-Chairman Johnston.

Approved by the Region 11 Guadalupe RFPG at a meeting held on May 3, 2023.

Brian Perkins, SECRETARY

Doug Miller, CHAIR

Region 11 Guadalupe RFPG Chair Updates

Agenda Item 4

Texas Water Development Board Updates

Agenda Item 5



Guadalupe Region 11 RFPG Sponsor: GBRA Updates

Agenda Item 6

Discussion and potential action regarding administrative expenses to be submitted to the Texas Water Development Board for reimbursement.

GBRA Salaries & Fringe	\$ 3,113.59
TOTAL	\$ 3,113.59

Approved Budget	Project Cost this Report	Cumulative Project Cost	Balance
\$ 37,866.00	\$ 3,113.59	\$ 22,136.31	\$ 15,729.69

Agenda Item 8

Presentations

A. Texas General Land Office (GLO) Funding and Ongoing Studies Update



CDBG-MIT Grant and Ongoing Studies Update

Texas General Land Office • Commissioner Dawn Buckingham, M.D.

What Does the GLO Do?

- Manages state owned land and mineral rights
 - State Map Archives
- Manages Texas beaches and state tidelands out to 3 leagues (10.35 statute miles) from the high tide mark.
- Manages the Permanent University Fund and Permanent School Fund
- The Veterans Land Board and Veterans Cemeteries
- State's agent for HUD Community Development Block Grant - Disaster Recovery and Mitigation Funds

Texas General Land Office
Commissioner Dawn Buckingham, M.D.



CDBG-DR/MIT Grants

- For each grant HUD publishes a set of regulations in the Federal Register. They are different for each grant and often changed during the grant. In general, these grants must be spent to benefit Low to Moderate Income families, be tied back to a disaster event, cannot be spent to support general functions of government, and have a deadline, past which the funds are no longer available.
- We currently have a grant portfolio of \$13.7B of which \$7.34B is remaining. Almost all of these funds are contracted or obligated to a subrecipient.
- The portfolio is divided among 10 Grants, 1 of which is just beginning, 2 are beginning to mature, 3 are at the midpoint of their cycle, 3 are about to enter the funds reallocation phase and 1 is beginning to close out



Mitigation Grant

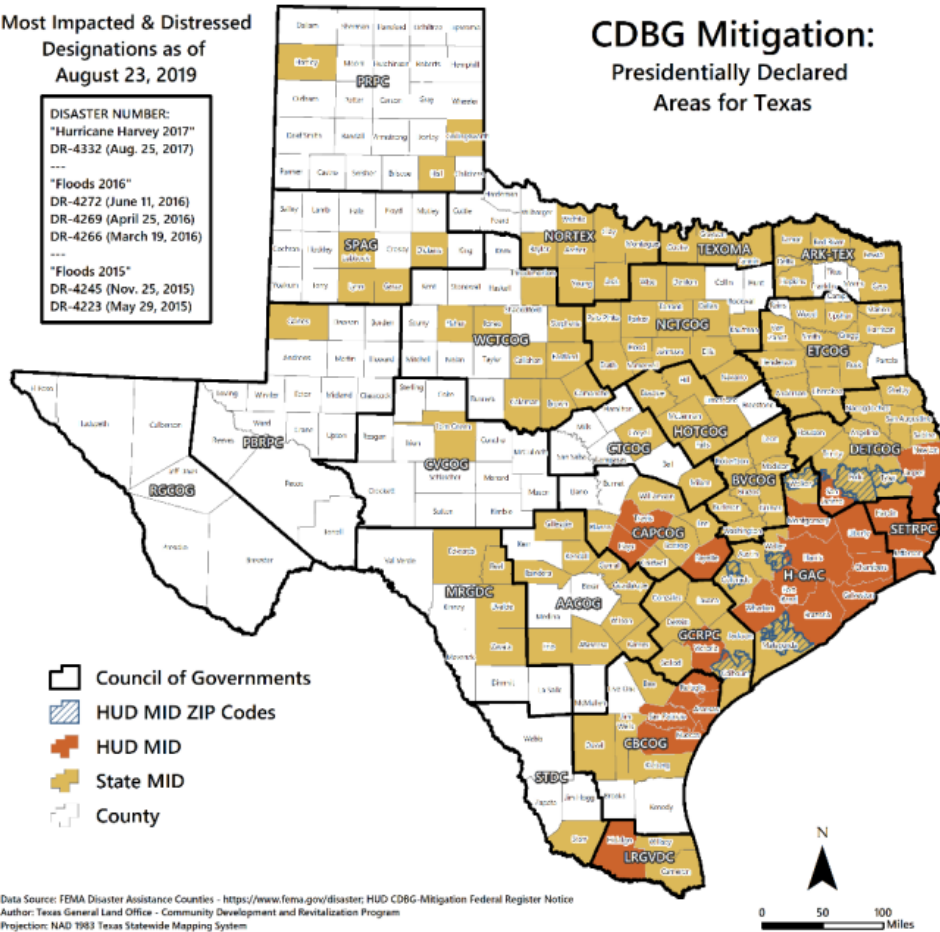
Most Impacted & Distressed Designations as of August 23, 2019

DISASTER NUMBER:
"Hurricane Harvey 2017"
DR-4332 (Aug. 25, 2017)

"Floods 2016"
DR-4272 (June 11, 2016)
DR-4269 (April 25, 2016)
DR-4266 (March 19, 2016)

"Floods 2015"
DR-4245 (Nov. 25, 2015)
DR-4223 (May 29, 2015)

CDBG Mitigation:
Presidentially Declared
Areas for Texas



- Allows for mitigating of future disaster damage but must reach back to counties or Zip codes federal declared for individual assistance, and address issues from, the 2015 Flood (Memorial Day) 2016 Flood (Labor Day), Hurricane Harvey and the 2018 South Texas floods
- 140 Counties and 8 additional Zip codes are eligible
- Some counties are designated HUD most impacted, and some are designated State most impacted
 - Most impacted designation effects allocations of funds
- Total grant is \$4,301,841,000 but it is broken down by disaster
- The Mitigation Grant has \$4,058,571,020 remaining, almost all of it is allocated or contracted to projects

Website: <https://recovery.texas.gov/>

Email: cdr@recovery.texas.gov

Texas General Land Office
Commissioner Dawn Buckingham, M.D.



Mitigation Grant Allocation

- These funds must be 50% spent and reimbursed to the state by HUD no later than December 1, 2027, and 100% spent and reimbursed by December 1, 2033
- Some programs are nearing their completion and remaining funds can be reallocated
- Resilient Communities Program and Local Hazard Mitigation Plan Program are taking applications

Programs	HUD Most Impacted and Distressed	State Most Impacted and Distressed	Total Allocation
2015 Floods State Mitigation Competition	\$23,048,475.00	\$23,048,475.00	\$46,096,950.00
2016 Floods State Mitigation Competition	\$74,648,350.68	\$74,648,350.68	\$149,296,701.36
Hurricane Harvey State Mitigation Competition	\$492,261,589.49	\$483,443,227.62	\$975,704,817.11
2018 South Texas Floods State Mitigation Competition	\$2,023,620.00	\$2,023,620.00	\$4,047,240.00
Harris County Mitigation Method of Distribution	\$750,000,000.00	-	\$750,000,000.00
Regional Mitigation Program (COG MOD)	\$933,597,000.00	\$233,400,000.00	\$1,166,997,000.00
HMGP: Supplemental	\$50,000,000.00	\$50,000,000.00	\$100,000,000.00
Coastal Resiliency Program	\$20,459,731.00	-	\$20,459,731.00
Housing Oversubscription Supplemental	\$320,000,000.00	\$80,000,000.00	\$400,000,000.00
Resilient Home Program	\$80,000,000.00	\$20,000,000.00	\$100,000,000.00
State Project Delivery	\$64,527,615.00	\$64,527,615.00	\$129,055,230.00
Hazard Mitigation Plans	\$15,000,000.00	\$15,000,000.00	\$30,000,000.00
Resilient Communities Program	\$50,000,000.00	\$50,000,000.00	\$100,000,000.00
Regional and State Planning	\$57,545,640.27	\$57,545,640.26	\$115,091,280.53
State Administration	\$107,546,025.00	\$107,546,025.00	\$215,092,050.00
Total	\$3,040,658,046.44	\$1,261,182,953.56	\$4,301,841,000.00





Questions?

Texas General Land Office
Commissioner Dawn Buckingham, M.D.



Agenda Item 9

Discussion regarding Region 11 RFPG Technical Consultants work and schedule.

- A. Discussion and potential action approving additional recommendations to Chapter 8: Legislative, Administrative, and Regulatory Recommendations.
- B. Discussion and potential action on recommending additional Flood Mitigation Actions in the Amended 2023 Guadalupe Regional Flood Plan.

An aerial photograph of a wetland landscape. The scene is dominated by a network of water channels and small ponds, interspersed with dense green vegetation, likely marsh grasses. The water is a light blue-grey color, reflecting the sky. The vegetation is a vibrant green, and the overall scene is a typical representation of a coastal or estuarine wetland. The text is overlaid on the left side of the image.

Region 11 Guadalupe

Regional Flood Planning Group Meeting

May 3, 2023

Item 9



Agenda

Comments from the Public - None

General Task Updates

Revised Chapter 8 recommendations

Recommend New FMEs, FMPs in Amended Plan

Look Ahead



Task Updates

Texas Disaster Information System (TDIS) Model Management System Final Plan model uploads - complete

TWDB Final Plan Requests for Revisions - complete

Revisions to Final Plan FMEs and FMPs discussed at 4/5 Meeting - Ongoing



TWDB Nature-based Solutions for Flood Mitigation Guidance Manual

Nature-based Solutions for Flood Mitigation in Texas | Texas Water Development Board

- With the goal of making it easier for Texas communities to understand, design, and implement NBS approaches for flood mitigation in their unique geographies, TWDB is developing a single, statewide manual that will synthesize existing literature and practical experiences on the use of nature-based solutions for flood mitigation.
- A significant body of guidance on this subject exists; however, more focused guidance that considers adoption, application, and the efficacy of NBS within the various geographic regions of Texas is needed to support this goal and to support flood planning efforts.
- *Team:* Texas Water Development Board, Freese and Nichols, and The Nature Conservancy
- *Next steps:* Initial tasks include online survey (this summer!), expert interviews, and literature review.

Other TWDB Research Efforts

Flood Research | Texas Water Development Board

www.twdb.texas.gov/flood/research/

The screenshot shows the Texas Water Development Board website. At the top left is the logo with the text "Texas Water Development Board" and a blue wave icon. To the right is a search bar with the text "Search site" and a "Search" button. Below the logo is a navigation menu with links: Home, Board, Financial Assistance, Water Planning, Groundwater, Surface Water, Flood, Drought, Conservation, Innovative Water, and Data & Apps. On the right side, there are social media icons for Facebook, Twitter, LinkedIn, YouTube, Instagram, and Email, with the text "Connect with us:" above them. The main content area is titled "Flood Research" and contains three paragraphs of text. The first paragraph describes the 2019 funding and the formation of the Flood Priority Research Steering Committee. The second paragraph notes that funding for some projects is augmented by other sources. The third paragraph states that during the 2022-2023 biennium, \$700,000 was made available for flood priority research, and five topics were chosen for funding. These topics are listed in a bulleted list: Effective Flood Awareness Communication, Infrastructure Assessment Methodologies, Model for Calculating Agricultural Flood Loss, Nature-based Solutions for Flood Mitigation in Texas, and Developing Future Rainfall Frequency Grids. Below this list, it states that in the program's first biennium (Fiscal Years 2020-2021), \$600,000 was allocated to pursue four flood priority research projects, which are listed in another bulleted list: Creating a Flood Resource Guide for Flood Officials and Communities, and Creating a Flood Early Warning System (FEWS) Guidance Document for communities. On the right side of the page, there is a vertical sidebar with a dark blue background and white text, listing various resources: Learn About Flooding, Flood Infrastructure Fund (FIF), Flood Planning, Flood Financial Assistance Programs, National Flood Insurance Program (NFIP), Flood Science, Flood Research, Floodplain Management Training, Community Resources, Flood Science and Community Assistance Staff, Flood Planning Staff, and TNRIS.

Texas Water Development Board

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Home Board Financial Assistance Water Planning Groundwater Surface Water Flood Drought Conservation Innovative Water Data & Apps

Flood Research

In 2019, the 86th Texas Legislature appropriated funding to the TWDB to support a variety of flood-related efforts, including research on topics of priority regarding flood. The TWDB subsequently initiated its Flood Priority Research efforts and formed a TWDB Flood Priority Research Steering Committee, made up of TWDB staff, to develop research initiatives and oversee the program.

Note that funding for some projects is augmented by sources other than the Flood Priority Research funding, and occasionally flood research projects are developed exclusively using other funding sources. Click on the project name above for more information.

During the 2022 - 2023 biennium, \$700,000 was made available to support flood priority research, and five topics were chosen for funding:

- [Effective Flood Awareness Communication](#)
- [Infrastructure Assessment Methodologies](#)
- [Model for Calculating Agricultural Flood Loss](#)
- [Nature-based Solutions for Flood Mitigation in Texas](#)
- [Developing Future Rainfall Frequency Grids](#)

In the program's first biennium (Fiscal Years 2020 - 2021), \$600,000 was allocated to pursue four flood priority research projects:

- [Creating a Flood Resource Guide for Flood Officials and Communities](#)
- [Creating a Flood Early Warning System \(FEWS\) Guidance Document for communities](#)

Learn About Flooding

Flood Infrastructure Fund (FIF)

Flood Planning

Flood Financial Assistance Programs

National Flood Insurance Program (NFIP)

Flood Science

Flood Research

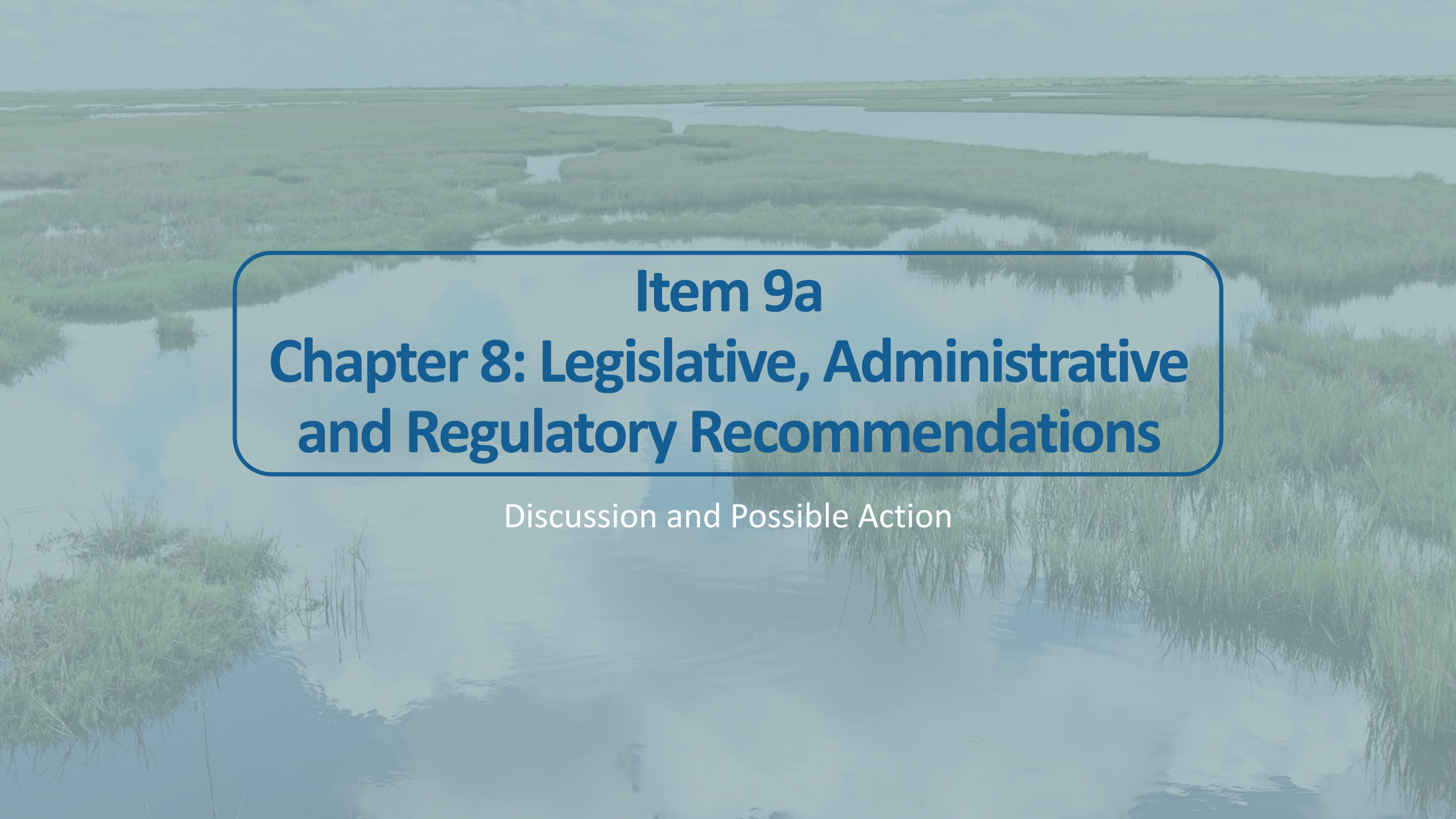
Floodplain Management Training

Community Resources

Flood Science and Community Assistance Staff



Flood Planning Staff

TNRIS



Item 9a
**Chapter 8: Legislative, Administrative
and Regulatory Recommendations**

Discussion and Possible Action



Chapter 8 – Additional Recommend- ations for Consideration

- Suggestions received during public review of the Draft Regional Flood Plan
- Limited time for discussion in Fall 2022
 - Focused on Legislative Recommendations
 - Future consideration of Regulatory and Administrative
- Briefed RFPG on suite of potential recommendations in April 2023
 - After conferring with RFPG, the group's desire is to address a few recommendations in the next cycle
 - Following slides represent Technical Consultants' synthesis of feedback received from RFPG in April 2023

Recommendations #1-3 for Consideration

Original version:
Regulatory/Administrative
RFPG or TWDB

Revised version:
Administrative 8.2.14
TWDB

#1 Hydraulic Modeling: Require the use of Manning's n-values and channel conditions that would be likely if a channel or project is not maintained.

#2 Hydrologic Modeling: Require the use of ultimate development land use conditions in the development of future flows for regulation of floodplains and development of FMPs.

#3 Encourage the use of storm shifting to validate 100-yr (1% AEP) storm estimates and to provide a broader understanding of flood risk.

Encourage communities to consider the use of Manning's n-values and channel conditions that reflect anticipated conditions if a channel is not maintained. When channels are constructed, bed and banks are usually cleared but many communities lack the resources to maintain channels (or do not mow for ecological reasons) often resulting in real roughness conditions that are higher than the design conditions. This can result in reduced channel conveyance and increased flooding.

Encourage communities to use ultimate development land use conditions in the development of future flows and use the future flows to develop regulatory floodplains and future flood mitigation projects. Anticipating and using future flood inundation boundaries for regulation and project development will reduce the chance of needing future flood mitigation projects to protect life and property.

Encourage communities to incorporate storm shifting to validate 100-year flow estimates. Hydrologic modeling has significant uncertainty. Use of observed storms, storm shifting, and varied ground conditions will provide communities a broader understanding of flood risk and uncertainty.

Encourage communities to require discussions of modeling variables/parameters and techniques within design reports. Including information in design reports (preliminary or final) will make the assumptions more transparent and will encourage discussions about uncertainty.

Recommendation #4 & 8 for Consideration

Original version: Administrative *TWDB*

#4 Increase funding for Nature Based Solutions and reduce hurdles to their incorporation into the Regional Flood Plans by: Increased training on accurate BCAs; Improving modeling methods; Expanding “negative impacts” to include environmental resources; Incentivize collaboration/prioritization of NBS

#8 Fund training and technical resources to advance understanding and adoption of NBS and best practices for maintaining floodplains and other natural mitigation features.

Revised version: Linkages in Chapter 3

Section 3.1.3 Consideration of Recommendation or Adoption of Minimum Floodplain Management Practices

The Guadalupe Regional Flood Planning group encourages Sponsors, or potential Sponsors, to review Chapter 8 (Legislative, Administrative, and Regulatory Recommendations) to understand the types of standards that could be included such as adopting higher floodplain standards, modeling requirements, and consideration for the inclusion of nature-based solutions.

Section 3.2.1 Goal Development Process

The Guadalupe Regional Flood Planning Group encourages Sponsors, or potential Sponsors, to review Chapter 8 (Legislative, Administrative, and Regulatory Recommendations) and encourages consideration of nature-based solutions in development of potential future projects, TWDB educational, training, and guidance material, and how nature-based solutions factor into the evaluation of potential projects.

Recommendation #6 for Consideration

Original version:
Administrative
TWDB

#6 Recognize impacts of land development codes and development have on flooding:

Educate counties on floodplain management authority (8.1.11); Promote and fund NBS; consider policy changes to allow Counties or Groundwater Conservation Districts to protect aquifer storage and recovery features (karst, fracture zones, sinkholes); Partner with other agencies to incorporate flood considerations (e.g. TxDOT)

Utilize all available state and federal programs to prioritize the preservation and restoration of natural flood mitigation features.

Revised version:

Administrative 8.2.15
TWDB

TWDB should leverage available state and federal programs to prioritize the preservation and restoration of natural or pre-development hydrology. FEMA studies have shown that flood risk prevention is more cost-effective than flood risk mitigation. Prioritizing preventative flood mitigation strategies will ultimately save Texas taxpayers significant money.

Recommendation #7 for Consideration

**Original version:
Legislative**

#7 Fund a Texas Water Initiative similar to Louisiana's with a robust program on use and adoption of NBS

Revised version:

**Administrative 8.2.19
TWDB**

Review State-wide Flood Planning programs in other states to determine if there are any initiatives that would be appropriate to include in the Texas State Flood Planning process. While Texas is leading the nation in the development of a comprehensive state-wide flood plan, other states (for example, Louisiana, Oklahoma, North Carolina, and Colorado) have undertaken similar programs. TWDB should review those programs and, where appropriate, include additional elements, lessons learned, or best practices from other states into future flood planning cycles in Texas.

Recommendation #10 for Consideration

Original version:

Administrative

RFPG or TWDB

#10 Review submitted FMEs, FMPs, and FMSs to determine feasibility to augment with NBS aspects.

Revised version:

Administrative 8.2.16

TWDB

TWDB should consider additional incentives to encourage the incorporation of nature-based solutions in flood mitigation projects. The draft project scoring/prioritization methodology proposed by TWDB incentivizes inclusion of nature-based solutions by awarding additional points; however, **TWDB should consider additional benefits such as grants and/or partial loan forgiveness for these project types/components as is done in other programs such as the Clean Water State Revolving Fund.**

Recommendation #11 for Consideration

Original version: Revised version:

Administrative **Administrative 8.2.17**

RFPG or TWDB ***TWDB***

#11 Refine “future conditions analysis” to better incorporate climate change.

TWDB should evaluate the potential to use ongoing research projects to develop and provide a future flood hazard dataset to the Regional Flood Planning Groups for use in the second planning cycle. TWDB Guidance suggests three methodologies for regional flood planning groups to develop future 100- and 500-year flood hazard maps. None of the methods are perfect, the results are non-regulatory, and there are variations as to how each region approached this task. **TWDB should review the future rainfall grid research project (slated to be complete in June 2024) and evaluate if TWDB can use existing models (such as the Base Level Engineering models) and maps to generate a future floodplain dataset for RFPGs to use in the second cycle of planning.**

Recommendation #13 for Consideration

Original version:

Administrative

RFPG or TWDB

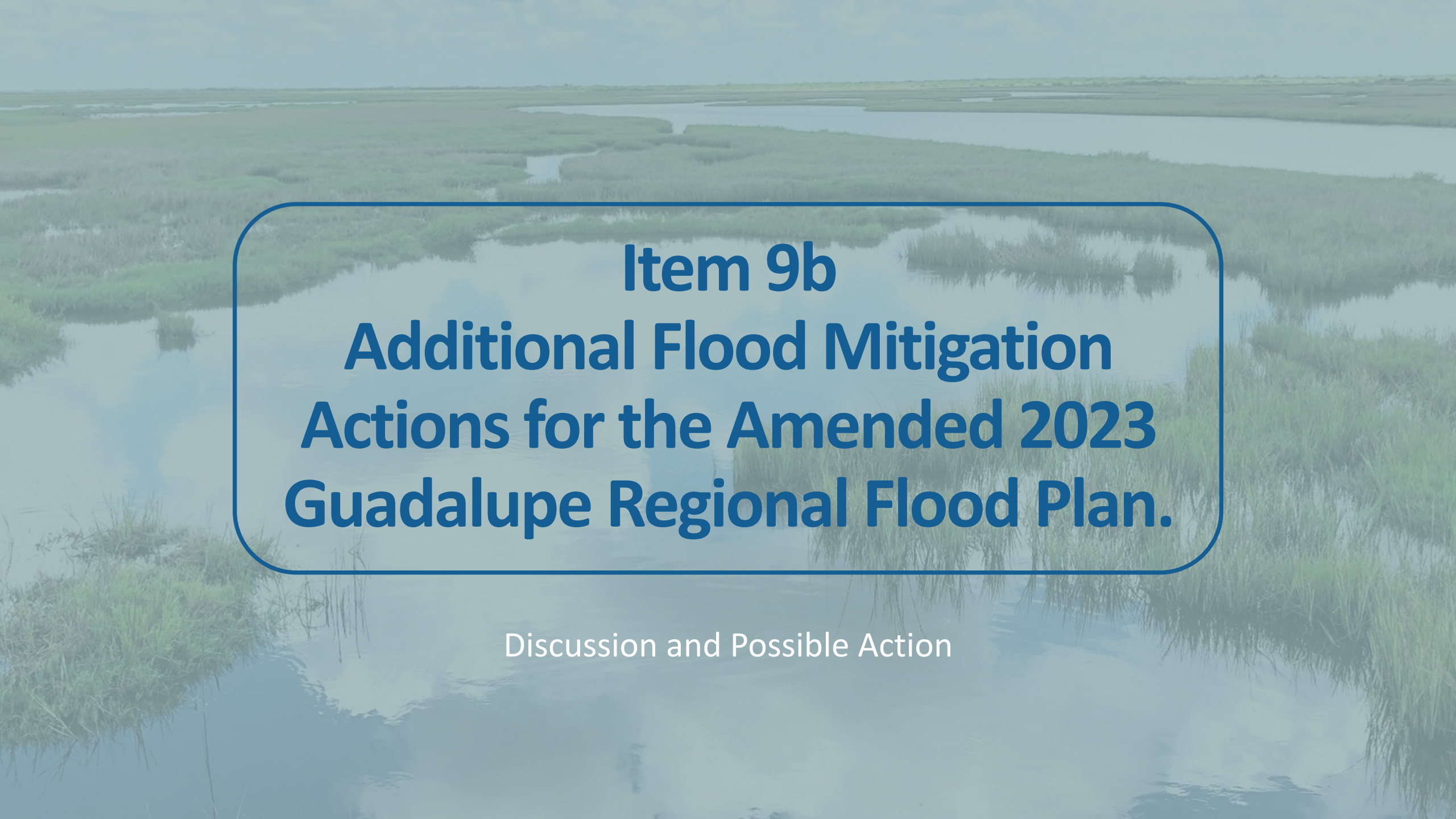
#13 Refine assessment and identification of flood mitigation needs to include additional “critical facilities” such as industrial facilities, superfund sites, or other similar facilities that may pose a high risk to surrounding communities.

Revised version:

Administrative 8.2.18

TWDB

TWDB should review the list of critical facilities to determine if additional types (such as industrial facilities or superfund sites) should be included. TWDB guidance allows regional flood planning groups to modify the list and definition of critical facilities within its region; however, the Guadalupe RFPG believes a standard definition or list would ensure consistency across regions, in evaluating/prioritizing projects, and would facilitate development of the State Flood Plan.



Item 9b
Additional Flood Mitigation
Actions for the Amended 2023
Guadalupe Regional Flood Plan.

Discussion and Possible Action

Flood Management Evaluation (FME)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title: River Road (Lakeview Blvd – Loop 337)

ID# 111000150

Sponsor (name of entity, not person): New Braunfels (Municipality)

RFPG recommend? Reason for Recommendation: _____

Study Details

Study type: Project Planning

Study description: Improve low water crossing access and multimodal connectivity. Includes a hydraulic bridge structure to floodplain and the intersection at Lakeview Blvd. Possible coordination with Blieders Creek/German Cree

New Hydrologic or Hydraulic model? Yes Emergency Need? No Existing/Anticipated model: _____

County: Comal

Watershed HUC# (if known): 12100202

Drainage area (Square miles, est.): 7

Goal(s): 11000001

100-Year Flood Risk Summary

Population at risk: 434

of structures: 93

Critical facilities: 2

Flood risk type: Riverine? Yes Coastal? No Local? No Play? No Other? No

Farm/Ranch land impacted (acres): 161

Roadway(s) impacted (length): 2

Number of low water crossings: 6

Historical road closures: _____


Estimated Cost and Funding Availability

Total Cost: \$250,000

Amount of Available Funding: TBD

Federal funding available: _____

Funding source: _____




Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title: Victoria County Nursery Road LWC

ID# 113000070

Sponsor: Victoria (Municipality)

RFPG recommend? Reason for Recommendation: _____

Project Description

Improvements consist of five (9ft x 9ft) box culverts and raising the deck elevation to be able to pass the 10% ACE (10-yr) event without overtopping.

Watershed HUC# (if known): 12100204

Emergency Need? No

Drainage area (mi² est.): 0

County: Victoria

Associated FME's: _____

Associated FMP's: _____

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Play? No Other? No

Population at risk: 2

of structures: 2

Critical facilities: 0

Farm/Ranch land impacted (acres): 6

Roadway(s) impacted (length): 0

Number of low water crossings: 1

Historical road closures: 2

100-Year Flood Risk Reduction

Population removed from 100-yr: 0

of structures removed from 100-yr: 0

Critical facilities removed from 100-yr: 0

Farm/Ranch land removed from 100-yr (acres): 1

Road removed from 100-yr (miles): 0

Low water crossings removed from 100-yr: 1

Reduction in # of road closures over 10 years: 2

Other benefits: None

Impacts

Negative impacts? No Negative impacts description: No

Water supply contributions? No Water supply contribution description: _____

Estimated Cost



Project Cost: \$724,000

% Nature-Based: 0

Issues: None

Recurring costs: 3600

BCR: 1

FME and FMP One Pagers Provided in Meeting Materials

Total New FMXs for Amended Plan:

- 26 FMPs
- 28 FMEs



Task 12

FME → FMP

FMP_ID	FMP_NAME
113000070	Victoria County Nursery Road LWC
113000071	Victoria County Parsons Road LWC
113000072	Comal County River Road LWC
113000085	City of Kerrville First Street Low Water Crossing
113000086	City of Kerrville Fourth Street Low Water Crossing
113000090	City of San Marcos McKie Street at Willow Springs Creek Improvements



New FMPs in Response to Final Plan Public Comments

FMP_ID	FMP_NAME
113000073	Kendall County Cypress Creek Detention
113000087	City of New Braunfels Nacogdoches and Faust Drainage Improvements
113000088	City of New Braunfels Castell Avenue Phase 1 Drainage Improvements
113000089	Kendall County Cypress Creek FEWS Siren System




Caldwell County Flood Infrastructure Fund Planning Study

FMP_ID	FMP_NAME
113000074	Caldwell County CR 141 @ Hines Branch
113000075	Caldwell County SH 80 Low Water Crossing Improvements @ Morrison Creek
113000076	Caldwell County Salt Branch Drainage Improvements in Luling
113000077	Caldwell County CR 233 and FM 2001 @ Plum Creek
113000078	Caldwell County Plum Creek Channel Improvements Near CR 227
113000079	Caldwell County Hemphill Creek Drainage Improvements Near FM 1984
113000080	Caldwell County US 183 @ Clear Fork Plum Creek
113000081	Caldwell County Brushy Creek Channel Improvements Near Las Estancias II
113000082	Caldwell County Boggy Creek Channel Improvements Near SH 142
113000083	Caldwell County CR 218 @ Boggy Creek and Clear Fork Plum Creek
113000084	Caldwell County CR 227 @ Brushy Creek



Caldwell County Flood Infrastructure Fund Planning Study

FME_ID	FME_NAME
111000152	Caldwell County Plum Creek Near US 183 and I-10 Intersection
111000153	Caldwell County FM 1322 @ Plum Creek
111000154	Caldwell County CR 146 @ Plum Creek
111000155	Caldwell County CR 230 @ Clear Fork Plum Creek
111000156	Caldwell County CR 159 @ Spanish Oak Creek
111000157	Caldwell County Cowpen Creek Near Dove Hill Drive
111000158	Caldwell County CR 221 and CR 233 @ Elm Creek
111000159	Caldwell County McMahan VFD @ Tenney Creek
111000160	Caldwell County Rolling Oaks @ Ebbon Road
111000161	Caldwell County Hemphill Creek Between SH 142 and SH 80
111000162	Caldwell County Dickerson Creek Near CR 111
111000163	Caldwell County CR 103 @ Morrison Creek
111000165	Caldwell County CR 208 @ Plum Creek
111000166	Caldwell County Mebane Creek Channel Improvements
111000167	Caldwell County Mebane Creek Floodwall
111000168	Caldwell County Town Branch Detention
111000164	Caldwell County FEWS



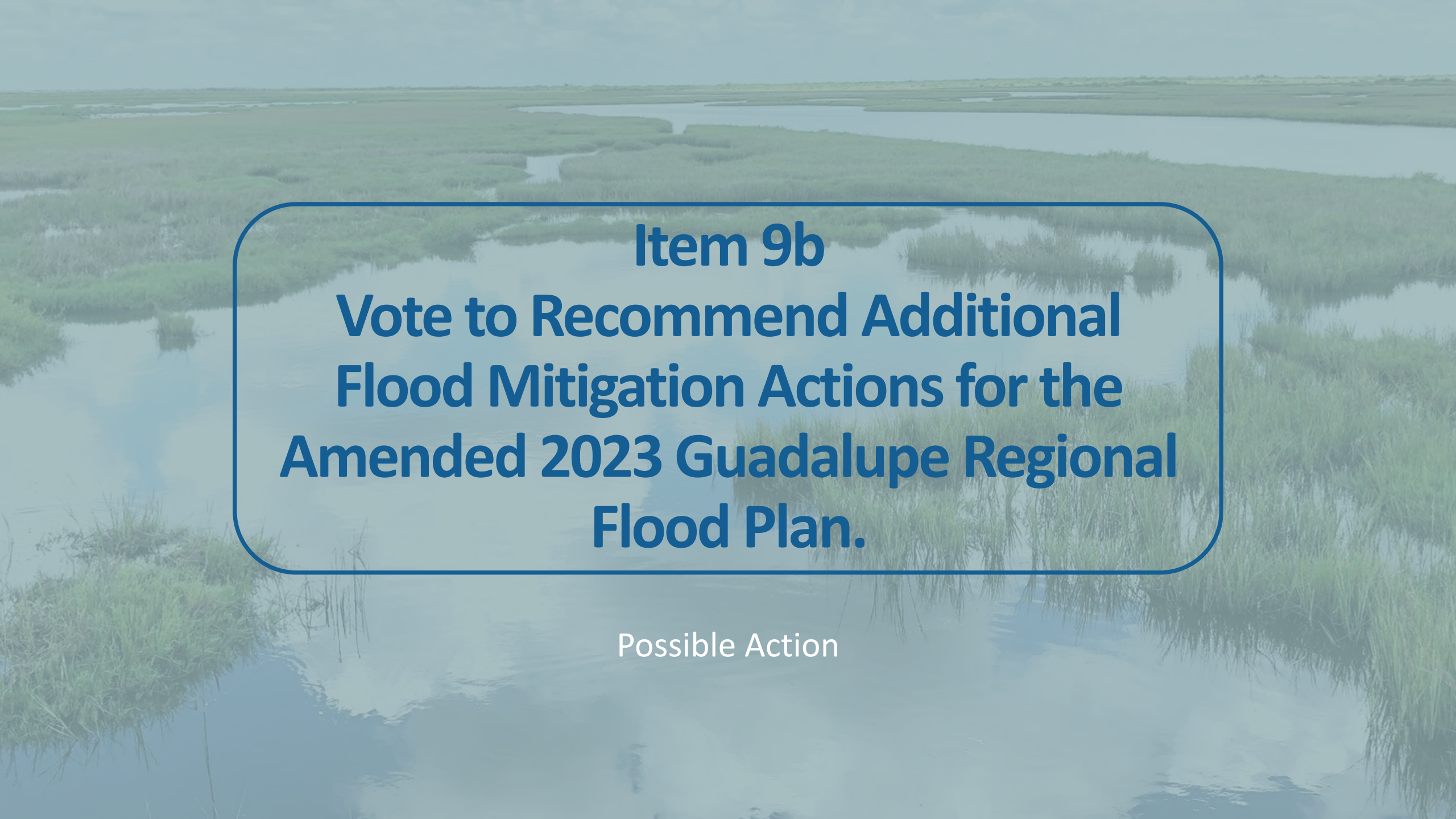
San Marcos
River
Foundation /
Edwards
Aquifer
Authority

FMP_ID	FMP_NAME
113000091	Edwards Aquifer Authority and San Marcos River Foundation Katz Recharge Conservation Easement
113000092	Edwards Aquifer Authority and San Marcos River Foundation Peters Recharge Conservation Easement
113000093	Edwards Aquifer Authority and San Marcos River Foundation Scull Crossing Flood Mitigation Conservation Easement
113000094	Edwards Aquifer Authority and San Marcos River Foundation Berry Riparian Flood Mitigation Conservation Easement
113000095	Edwards Aquifer Authority and San Marcos River Foundation Turner Riparian Flood Mitigation Conservation Easement



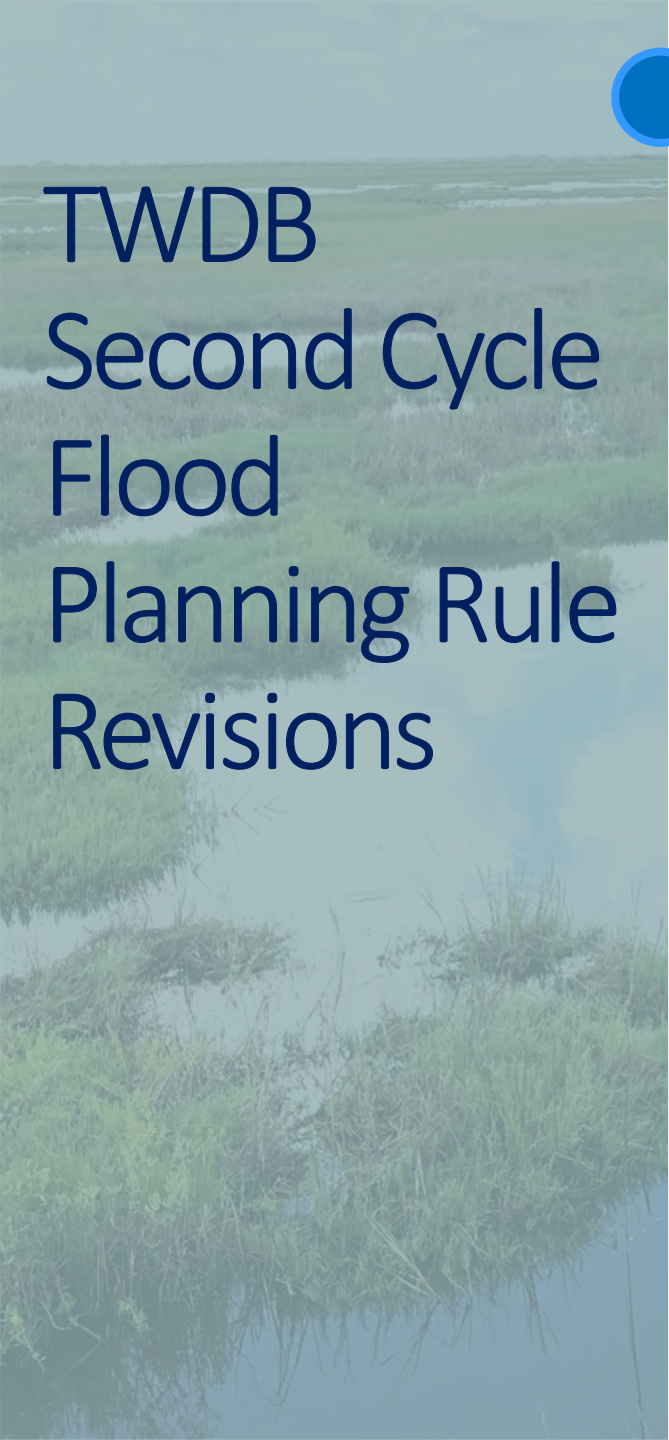

Additional Sponsor- requested FMEs

FME_ID	FME_NAME
111000150	City of New Braunfels River Road (Lakeview Blvd – Loop 337)
111000169	City of San Marcos USACE Regional Flooding Mitigation Bypass Channel Project Planning
111000176	Goliad County Drainage Master Plan
111000170	Guadalupe County Drainage Master Plan
111000171	City of San Marcos Drainage Master Plan
111000172	City of San Marcos Atlas 14 H&H Model Updates
111000173	Kendall County Drainage Master Plan
111000174	City of San Marcos Gauges for Phase 2 of city-wide FEWS
111000175	Comal County Drainage Master Plan
111000177	City of San Marcos Upper San Marcos Site 4 & 5 Dam Evaluations
111000178	City of Seguin Drainage Master Plan



Item 9b
**Vote to Recommend Additional
Flood Mitigation Actions for the
Amended 2023 Guadalupe Regional
Flood Plan.**

Possible Action



TWDB Second Cycle Flood Planning Rule Revisions

- The Texas Water Development Board (TWDB) invites stakeholders to review and comment on the proposed amendments to the [regional and state flood planning rules](#) (31 Texas Administrative Code Chapters 361 and 362) published for public comment following [Board authorization](#).
- The proposed amendments to the rules include new definitions for terms commonly used and refinement of several other definitions, further direction on the governance of the regional flood planning groups, updates to notice requirements, and clarification of regional flood plan requirements.
- Comments on the rules should be emailed to rulescomments@twdb.texas.gov by **May 22**.



Look Ahead

Meeting	Milestone Goals
June	June 25 Last RFPG Meeting for 1 st Cycle of Planning Vote to Adopt and Approve Amended Regional Flood Plan
July	July 14 Amended Regional Flood Plan due to TWDB
Fall 2023	Second Cycle of Regional Planning Begins <u>1stCycleWorkingSchedule.pdf (texas.gov)</u>

Agenda Item 10

Discussion and potential action regarding the Terms of Office for the initial Guadalupe RFPG voting and non-voting members accordance with the by-laws.

Consider date and agenda items for next meeting.

Tuesday, June 27, 2023 at 2pm

Agenda Item 11

Public general comments – limit 3 minutes per person

Agenda Item 12

Adjourn

Agenda Item 13