

# Region 11: Guadalupe Regional Flood Planning Group Meeting

Wednesday, December 2, 2020 2:00pm

# Agenda Item 1 Call to Order

- 1. Attendance
- 2. Establish Quorum

# Agenda Item 2 Welcome

Agenda Item 3
Public General
Comments

Public Comments limited to 3 minutes per speaker

Agenda Item 4
Approval of
Meeting Minutes

1. Approval of meeting minutes from November 4, 2020 Region 11 RFPG Meeting

#### **Meeting Minutes**

#### Region 11 Guadalupe Regional Flood Planning Group Meeting November 4, 2020

#### 1:00 PM

#### **GoToWebinar Virtual Meeting**

#### **Roll Call:**

Voting Member	Interest Category	Present (x) /Absent () / Alternate Present (*)
Doug Miller	Agricultural interests	X
John Johnston	Counties	X
Annalisa Peace	Environmental interests	X
Beth Parker	Flood districts	
Kevin Stone	Industries	
Joseph Pantalion	Municipalities	X
Kimberly Metzen	Public	X
R. Brian Perkins	River authorities	X
Gian Villarreal	Small business	X
Ronald Fieseler	Water districts	X
Joseph McDaniel	Water utilities	X

Non-voting Member	Agency	Present(x)/Absent()/
		Alternate Present (*)
Sue Reilly	Texas Parks and Wildlife Department	X
Natalie Johnson	Texas Division of Emergency Management	X
Jami McCool	Texas Department of Agriculture	X
Allen Nash	Texas State Soil and Water Conservation	Х
	Board	
Kris Robles	General Land Office	Х
Morgan White	Texas Water Development Board (TWDB)	Х
Joel Klumpp	Texas Commission on Environmental	Х
	Quality	

#### Quorum:

Quorum: Yes

Number of voting members or alternates representing voting members present: 9

Number required for quorum per current voting positions of 12: 7

#### **Other Meeting Attendees: \*\***

Matt Nelson, TWDB (Meeting Facilitator)
Brooke Paup, TWDB Board Member
James Bronikowski, TWDB
Reem Zoun, TWDB
Hayley Gillespie, TWDB
Kathleen Ligon, TWDB
Patrick Lopez, TWDB

Renate Kaaa, TWDB Anna Gonzalez, TWDB Steven Richter, TWDB Ryke Moore, TWDB Jim Carrillo Stephanie Castillo Jamie Childers

Adam Conner, Freese and Nichols Tami Norton C. Rich Cramer Marci O'Connell Cindy Engelhardt Melissa Reynolds Lauren Gonzalez **Paul Robinson Bobby Gore Andrew Smith** Stephanie Griffin Jacque Thomas **Charles Hastings** Sam Vaugh Tina Hendon David Villarreal Jeff Henson **Christine Westerman Bret Higginbotham** Melinda Austin Paula Jo Lemonds Justin Baker **Christian Lentz** Amin Kiaghadi Josh Logan Justin Murray

All meeting materials are available for the public at:

http://www.twdb.texas.gov/flood/planning/regions/schedule.asp.

<sup>\*\*</sup>Meeting attendee names were gathered from those who entered information for joining the GoToWebinar meeting.

#### AGENDA ITEM NO. 1: Call to Order

Matt Nelson called the meeting to order at 1:06 PM. A roll call of the planning group members was taken to record attendance and a quorum was established prior to calling the meeting to order.

#### AGENDA ITEM NO. 2: Welcome, Meeting Facilitation Information and Instructions

Matt Nelson, TWDB Board Member Brooke Paup, and Reem Zoun welcomed members to the meeting. Matt Nelson provided meeting facilitation information and instructions.

#### AGENDA ITEM NO. 3: Member Introductions

Each present voting and non-voting member of the Region 11 Guadalupe RFPG introduced themselves.

#### **AGENDA ITEM NO. 4: Regional Flood Planning Overview Presentation**

Matt Nelson and Reem Zoun presented an overview of the regional flood planning process.

#### AGENDA ITEM NO. 5: Discussion of group bylaws and consider adopting group bylaws

Matt Nelson presented the model bylaws provided by the TWDB for the RFPG to consider adopting and opened discussion on adopting group bylaws.

After discussion, the bylaws were edited to replace "Model RFPG" with "Region 11 Guadalupe RFPG" throughout. Additionally, the members discussed and made edits to the model bylaws regarding the following topics: maximum number of voting members, officer selection, and amending the bylaws.

The members discussed adding voting members, voting requirements, and designating alternates. No changes were made regarding these topics.

A motion was made by Doug Miller to adopt the bylaws as amended.

The motion was seconded by Ronald Fieseler.

The vote to adopt the group bylaws as amended passed by a vote of 9 Ayes.

#### AGENDA ITEM NO. 6: Consider nominating and electing regional flood planning group Chair or Interim Chair

Matt Nelson described the Chair/Interim Chair election process and opened the floor to nominations for the Chair or Interim Chair position.

A nomination of Doug Miller as the Chair was made by Joseph McDaniel.

The vote to select Doug Miller as Chair of Region 11 Guadalupe RFPG passed by a vote of 9 Ayes.

The group then took a 5-minute recess.

#### AGENDA ITEM NO. 7: Consider selecting a planning group sponsor to act on behalf of the regional flood planning group

Matt Nelson listed the entities that had expressed interest in serving as the Region 11 Guadalupe RFPG's planning group sponsor.

These interested entities included: Guadalupe-Blanco River Authority Kerr County

Doug Miller opened the floor to public comments. No public comments were given.

Doug Miller opened discussion on selecting a planning group sponsor to act on behalf of the RFPG.

Brian Perkins stated the Guadalupe-Blanco River Authority's interest in supporting the Region 11 Guadalupe RFPG.

A motion was made by Joseph McDaniel to select Guadalupe-Blanco River Authority as the designated planning group sponsor for Region 11 Guadalupe RFPG.

Ronald Fieseler seconded the motion.

The vote to select Guadalupe-Blanco River Authority as the planning group sponsor to act on behalf of the RFPG passed by a vote of 9 Ayes.

AGENDA ITEM NO. 8: Consider additional, region-specific public notice requirements, if any, that might be necessary to ensure adequate public notice in the region per 31 Texas Administrative Code §361.12(3).

Matt Nelson described existing notice requirements. No public comments were given.

Doug Miller opened discussion on identifying additional, region-specific public notice requirements. The members discussed posting meeting materials.

A motion was made by Annalisa Peace to post meeting materials at least five days prior to RFPG meetings, or whenever members received the materials, whichever is earlier. The motion did not receive a second.

No action was taken. Doug Miller closed discussion on AGENDA ITEM NO. 8.

#### AGENDA ITEM NO. 9: Consider authorizing the RFPG sponsor to apply for grant funds and enter into a contract with the TWDB on behalf of the RFPG

Matt Nelson introduced the agenda item and Doug Miller opened discussion on authorizing the RFPG sponsor to apply for grant funds and to enter into a contract with the TWDB on behalf of the RFPG.

No points nor comments/concerns were brought forth during open discussion.

A motion was made by Joseph Pantalion to authorize the RFPG sponsor to apply for grant funds and enter into a contract with the TWDB on behalf of the RFPG.

The motion was seconded by Joseph McDaniel.

The motion passed by unanimous consent.

#### AGENDA ITEM NO. 10: Discussion of necessary additional voting and non-voting positions that may be needed to ensure adequate representation from the interest in the region

No public comments were given.

Doug Miller opened discussion additional voting and non-voting positions that may be needed to ensure adequate representation from the interest in the region.

The members discussed adding additional members from the following interest categories: river authorities (specifically the Upper Guadalupe River Authority), counties, municipalities, and public. The members also discussed adding a non-voting member liaison with the Region 12 San Antonio RFPG.

No action was taken. Doug Miller closed discussion on AGENDA ITEM NO. 10.

#### AGENDA ITEM NO. 11: Consider initiating RFPG solicitation process for individuals to fill vacant required voting member positions

Matt Nelson introduced the agenda item. No public comments were given.

Doug Miller opened the floor to discussion on initiating RFPG solicitation processes for individuals to fill the vacant required voting member position. The current vacant, required voting position for Region 11 Guadalupe RFPG is:

Currently Vacant: Electric Generating Utilities

The members discussed the process for filling the vacancy and potential electric generating interests in the region.

Brian Perkins made a motion to initiate the solicitation process for individuals to fill the vacant required voting member position.

The motion was seconded by John Johnston.

The vote to initiate the RFPG solicitation process passed by a vote of 9 Ayes.

#### AGENDA ITEM NO. 12: Receive general public comments (Public comments limited to 3 minutes per speaker)

No public comments were given.

#### AGENDA ITEM NO. 13: Consider date and agenda items for next meeting

Doug Miller opened discussion to consider the date and agenda items for the next meeting.

Brian Perkins made a motion to hold the next Region 11 Guadalupe RFPG meeting at December 2, 2020 at 2:00 PM at the Guadalupe-Blanco River Authority offices with the ability to attend in person or virtually.

The motion was seconded by John Johnston.

The motion passed by unanimous consent.

Potential agenda items for the next meeting include officer and executive committee member elections and presentation by the TWDB and other entities, as necessary.

#### **AGENDA ITEM NO. 14: Adjourn**

The members discussed the required Open Meetings Act and Public Information Act trainings.

Joseph McDaniel made a motion to adjourn.

The motion was seconded by Ronald Fieseler.

The motion passed by unanimous consent.

The meeting adjourned at 3:46 PM by Doug Miller.

Approved by the Region 11 Guadalupe RFPG at a meeting held on December 2, 2020.

FIRST AND LAST NAME, SECRETARY

Doug Miller, CHAIR

Texas Water Development Board Update/Presentation

# Agenda Item 5

# Texas Water Development Board Flood Planning Presentation Regional Flood Planning Group 2<sup>nd</sup> Meeting

#### **TABLE OF CONTENTS:**

- Flooding 101 (20 minutes)
- Request for Applications Process & Contract Details (5 minutes)
  - RFPG Responsibilities: Scope of Work Overview(20 minutes)



# Flooding 101 (20 minutes)



**Development Board** 

# Flooding 101: Watersheds

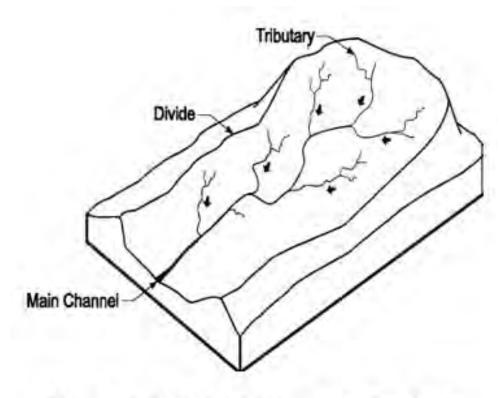
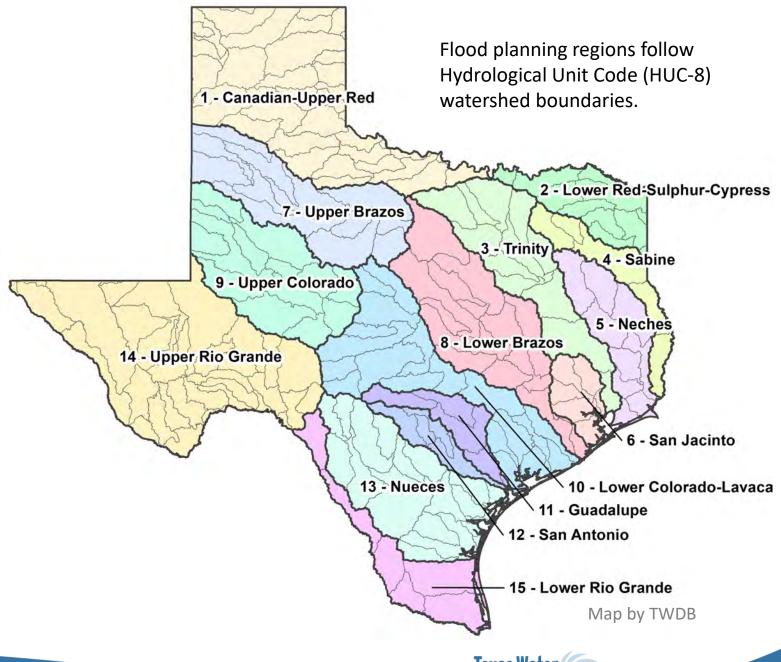


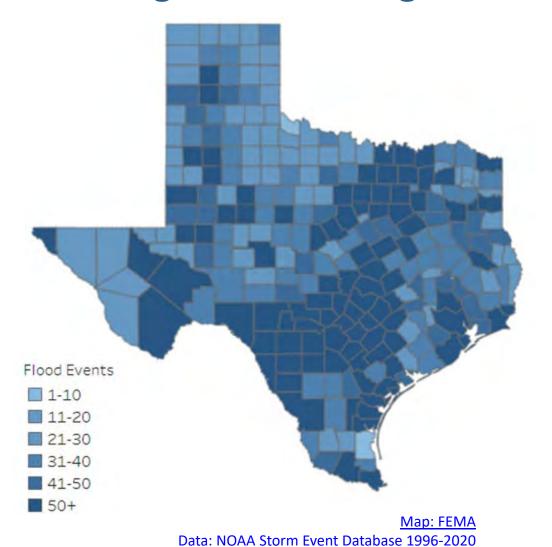
Figure 1-2. Riverine Watershed and Floodplain Image by FEMA



**Development Board** 

www.twdb.texas.gov

## Flooding 101: Flooding in Texas



State Flood Assessment REPORT TO THE LEGISLATURE 86TH LEGISLATIVE SESSION Texas Water

Development Board



www.twdb.texas.gov

#### Flooding 101: What is a Flood?

A general and temporary condition of partial or complete inundation of normally dry land area from overflow of inland or tidal waters or from the unusual and rapid accumulation or runoff of surface waters from any source.



Agricultural flooding damaging crops and hay.

## Flooding 101: Floodplains

The area of land subject to periodic inundation by floodwaters.

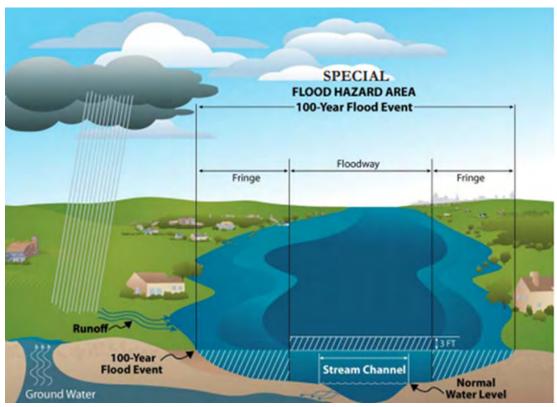






Image: FEMA

#### Flooding 101: Benefits of Floods

When floodplains are preserved in their natural state, they provide many benefits:

- Reduce severity of floods by storing floodwaters, reducing flood velocities, and curbing sedimentation and erosion
- Contribute to groundwater recharge
- Provide recreation and quality of life
- Create habitats for many plants and animals.

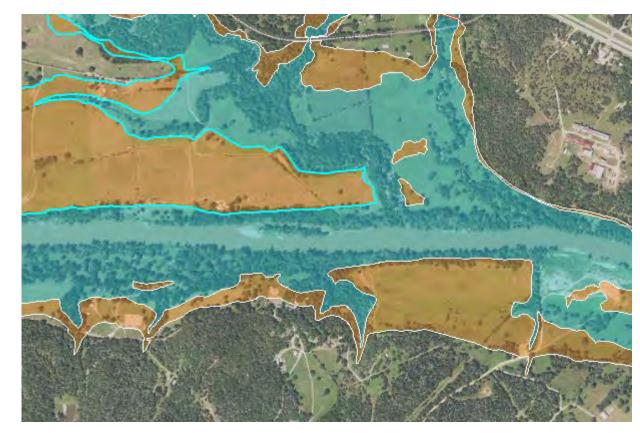


Wetlands at Galveston Island State Park provide natural ecosystem services.

Image: Yinan Chen CC-PD

### Flooding 101: Quantifying Flood Events

- 1.0% annual chance flood event
  - flood event having a 1.0% chance of happening in any given year = every year
  - also referred to as the "base flood" or "100-year flood"
- 0.2% annual chance flood event
  - flood event having a 0.2% chance of happening in any given year
  - also referred to as the "500-year flood"

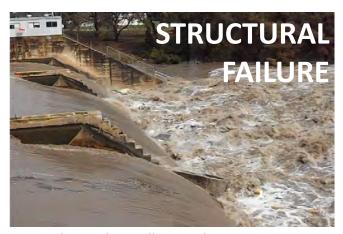


The 1% annual chance floodplain is shown in blue. The 0.2% annual chance floodplain is shown in orange. Image by FEMA





# Flooding 101: Types of Flooding



2019 Lake Dunlap Spillway Failure. Guadalupe-Blanco River Authority

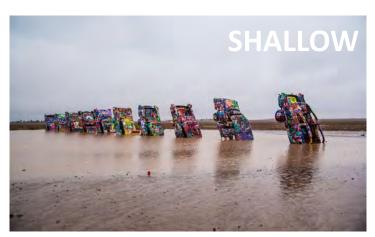


Flash flooding in San Marcos, TX.

CC-BY-SA-3.0



Texas National Guard, Houston, TX Texas National Guard CC-BY-2.0



Cadillac Ranch sculpture near Amarillo, TX. © Rachel Goad, used by permission.

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Blue Hole Park, South San Gabriel River, Georgetown, TX. FEMA



Coastal flooding in Galveston, TX pixabay, no attrib. req.



#### Flooding 101: Flood Mitigation

The implementation of actions, including both **structural** and **non-structural solutions**, to reduce flood risk to protect against the loss of life and property.



Mangroves on the Texas Coast stabilize shorelines and help absorb storm surge; an example of a non-structural flood mitigation solution.

Photo by Univ. Of Texas Marine Science Institute



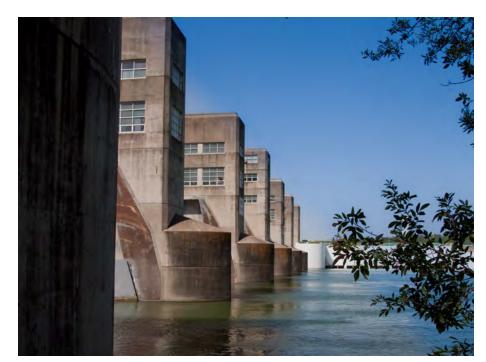
**Development Board** 

Galveston Seawall, a structural flood mitigation solution.

Image by Yinan Chen CC-PD

## Flooding 101: Structural Solutions to Flooding

Examples include the construction of levees, dikes, floodwalls/seawalls, dams, channel alterations, culverts, flood gates, and detention and retention basins.



Anzelduas Dam on the Rio Grande near Mission, TX.

Image: TWDB



Storm Drains



Streambank Stabilization in Austin, TX.
Image by City of Austin Watershed Protection

#### Flooding 101: Non-Structural Solutions to Flooding

Examples include open space preservation, property buyouts and relocation, zoning and building codes, wetland restoration, elevated structures, flood warning systems, educational campaigns, and participation in the National Flood Insurance Program.



Homes that survived the ~20-foot-high storm surge of Hurricane Ike in Bolivar Peninsula, near the community of Caplen.



Turn Around, Don't Drown educational campaign. Image: Weather.gov



Engineered Wetlands in in the Houston Audubon Society's The Oaks Nature Preserve . Image: TWDB

Image: TWDB

#### Flooding 101: National Flood Insurance Program

Based on an agreement between local communities and the federal government.

- Local communities agree to adopt floodplain management regulations to reduce flood risks
- The federal government makes flood insurance and disaster assistance available to the community



Image by FEMA / National Flood Insurance Program







Image: Brent Hanson, U.S. Geological Survey. Public domain.

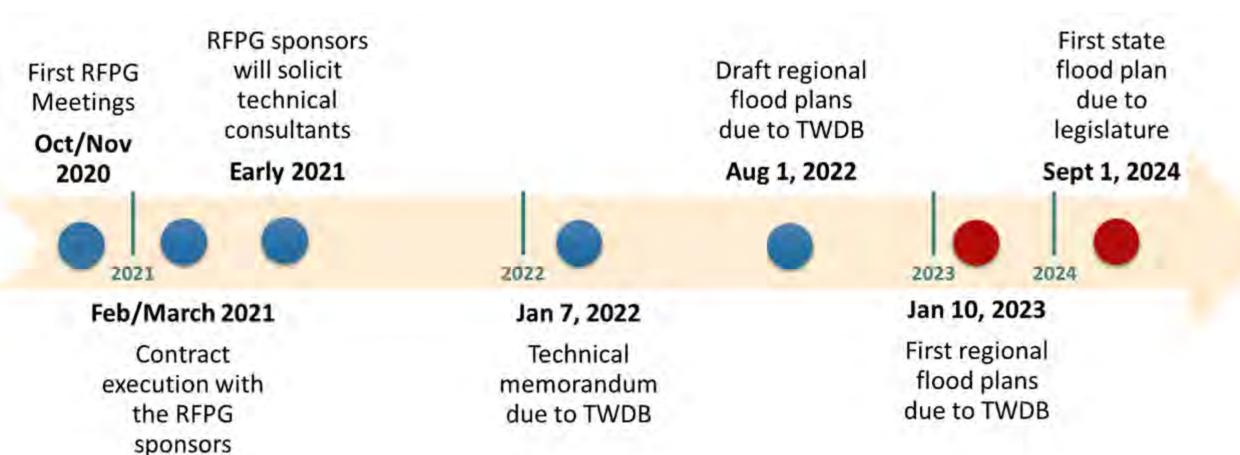
# Questions? Comments?

Texas Water Development Board

# Request for Applications Process & Contract Details (5 minutes)



## Flood Planning Timeline



#### Regional Flood Planning Grant RFA

- \$19.5 million in available funds to be allocated between 15 regions.
- Sponsors may submit applications November 20, 2020 -January 21, 2021
- Applications will be processed as received
- Contract execution (TWDB & sponsor) by March 31, 2020



Texas Water Development Board approved posting the Regional Flood Planning Grant Request for Applications on November 19th!

The Request for Applications and associated documents ae now available on our website:

https://www.twdb.texas.gov/flood/planning/documents/2023/index.asp



# Regional Flood Planning Grant Application Documents:

- Request for Applications Posting
- **Application Instructions**
- **Application Checklist**
- Draft Scope of Work
- Draft Contractor (Planning Group Sponsor) Task Budget
- Board item document

These documents are available on our website at:

http://www.twdb.texas.gov/flood/planning/planningdocu/2023/index.asp

# Funding the Planning Process Total \$19,500,000

Region	RFPG Name	Allocated Funds
1	Canadian-Upper Red	\$1,008,200.00
2	Lower Red-Sulphur-Cypress	\$910,400.00
3	Trinity	\$2,520,200.00
4	Sabine	\$947,600.00
5	Neches	\$1,148,900.00
6	San Jacinto	\$2,446,000.00
7	Upper Brazos	\$961,500.00
8	Lower Brazos	\$1,485,500.00
9	Upper Colorado	\$946,200.00
10	Lower Colorado-Lavaca	\$1,373,700.00
11	Guadalupe	\$961,300.00
12	San Antonio	\$1,295,000.00
13	Nueces	\$1,143,700.00
14	Upper Rio Grande	\$1,081,800.00
15	Lower Rio Grande	\$1,270,000.00



Image: Brent Hanson, U.S. Geological Survey. Public domain.

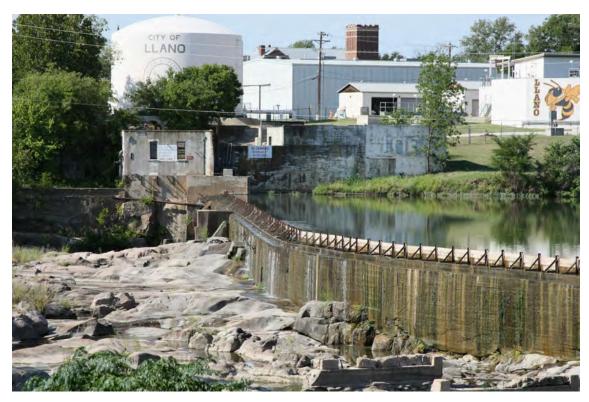
# Questions? Comments?

# RFPG Responsibilities: Scope of Work Overview (20 minutes)

#### General Document Cross-Reference

Cont	nal Flood Pl tract Docur References	ment	2023 Regional Flood Plan Chapter, Associated TAC Sections, and Content		
TWDB Contract Reimbursement Accounting Number ('CAS')	Exhibit A - Contract SOW Task	Exhibit C - General Guidelines for Regional Flood Plan Development	Regional Flood Plan Chapter Number	Primary TAC Section	General Content
1	1	1	1	§361.30; §361.31; §361.32	Planning Area Description
2	2A	2	,	361.33	Existing Condition Flood Risk Analyses
3	2B	2	2	361.34	Future Condition Flood Risk Analyses

#### Task 1 – Planning Area Description



Llano dam on the Llano river sits on the banks of the county seat.

Image: TWDB

#### A general description of the region, including:

- social & economic character
- flood-prone areas, types of major flood risks, and key historical flood events
- political subdivisions with flood related authority
- the extent of local regulation and development codes relevant to flooding
- existing or proposed natural flood mitigation features and constructed major flood infrastructure





## Task 2A & 2B – Existing & Future Condition Flood Risk Analyses

Perform existing and future condition flood hazard analyses to determine the location and magnitude of both 1.0% and 0.2% annual chance flood events



Develop existing & future condition flood exposure analyses to identify who and what might be harmed for both 1.0% and 0.2% annual chance flood events.

Perform existing & future condition **vulnerability analyses** to identify vulnerabilities
of communities and critical facilities



## Task 3A – Evaluation & Recommendations on Floodplain Management Practices

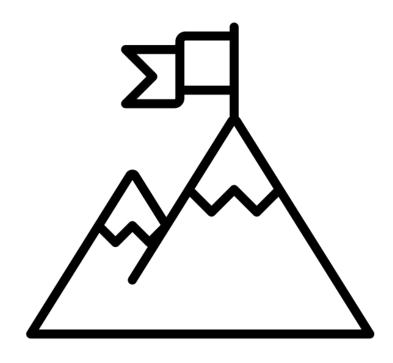
- Consider how current floodplain management practices or regulations increase flood risks.
- Consider how the 1.0% annual chance floodplain and associated flood risks may change over time.
- Consider adopting minimum floodplain management/land use standards that an entity must adopt prior to including any evaluations, projects, or strategies in the regional flood plan.



West Fork San Jacinto River near Humble, Texas after Hurricane Harvey Image: Steve Fitzgerald, Harris County Flood Control District



#### Task 3B – Flood Mitigation & Floodplain Management Goals

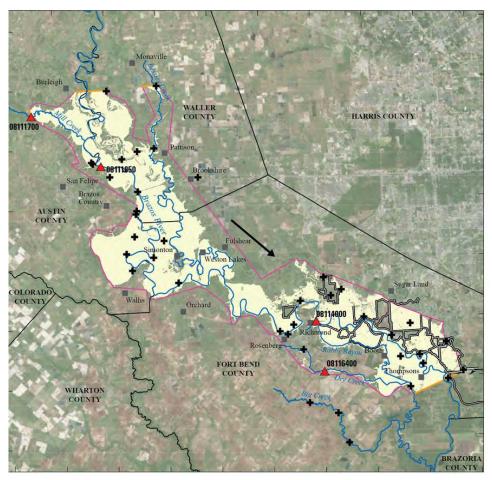


Created by Birckhead Creative from Noun Project

- Identify specific and achievable flood mitigation and floodplain management goals
  - Short (10 year) & Long-Term (30 year)
- State the levels of residual flood risk after goals are fully met.

## Task 4A – Flood Mitigation Needs Analysis

- Identify locations within the region that have the greatest flood mitigation and flood risk study needs.
- Based on the analyses and goals developed by the RFPG under Tasks 2A through 3B



Map of inundated areas (yellow areas) on the lower Brazos River after Hurricane Harvey Image: USGS



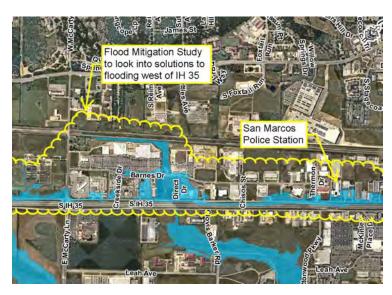




## Key Terms for Tasks 4 & 5: FME, FMP, FMS

#### Flood Management Evaluation (FME)

 A proposed flood study of a specific, flood-prone area that is needed in order to assess flood risk and/or determine whether there are potentially feasible FMSs or FMPs.



 ${\tt Cottonwood\ Creek\ Flood\ Study,\ San\ Marcos,\ TX.}$ 

Image: City of San Marcos

#### Flood Management Strategy (FMS)

 A proposed plan to reduce flood risk or mitigate flood hazards to life or property (may or may not require associated FMPs to be implemented).



Exploration Green project, Clear Lake City, TX Image: Texas Water Resources Institute

#### **Flood Mitigation Project (FMP)**

 A proposed project (structural and non-structural) that when implemented will reduce flood risk, mitigate flood hazards to life or property.



El Paso storm water project, El Paso, TX Image: El Paso Water

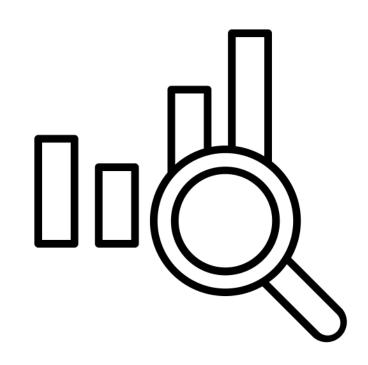






# Task 4B – Identification and Evaluation of Potential FMEs & Potentially Feasible FMSs and FMPs

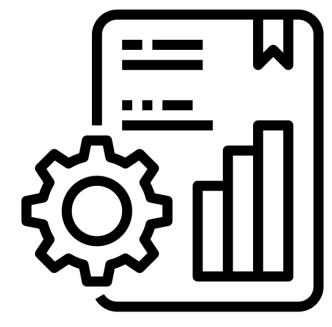
- Identify potential FMEs and potentially feasible FMSs and FMPs based on process developed with public input
- Evaluate potential FMEs and potentially feasible FMSs and FMPs based on a variety of factors described in rules and guidance.
- The FMPs should be permittable, constructible, and implementable.



Created by Pascal Heß from Noun Project

## Task 4C – Prepare and Submit Technical Memorandum

- Include all deliverables from Tasks 1 to 4B detailed in the Scope of Work
- TWDB Guidance Document will provide more information.
- Tentative Due Date: January 2022



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#### Task 5 – Recommendation of FMEs, FMSs & FMPs

- Recommend FMEs that are most likely to identify potentially feasible FMSs and FMPs based on evaluations under Task 4B
- Recommend FMSs and FMPs to reduce the impacts of flood based on evaluations under Task 4B
- Recommendations should be based on comparison of alternatives

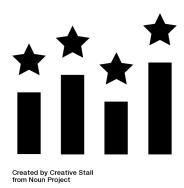


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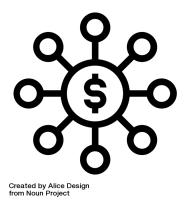
#### Regional & State Flood Planning Long-Range Planning Process



Regional Flood Plans will identify flood risk and recommend FMEs, FMSs, and FMPs within regions.



State Flood Plan will rank recommended FMEs, FMSs, and FMPs statewide.



Future state financial assistance may be allocated using a to-be-determined prioritization criteria.\*

\*Funding to implement projects can also come from local, federal, or other sources.





## Task 6A – Impacts of Regional Flood Plan

- Summarize the relative reduction in flood risk that implementation of the plan would achieve.
- Describe impacts of recommended FMSs and FMPs on environment, agriculture, recreation, water quality, erosion, sedimentation, and navigation.
- State that FMPs will not negatively affect neighboring areas.



Recreational boating.

Image: TWDB



**Development Board** 

Crops in the lower Rio Grande Valley

Image: TWDB

## Task 6B – Impacts on Water Supply

- Summarize how Regional Flood Plan will affect water supply.
- How would FMSs and FMPs contribute to water supply?
- How would FMSs and FMPs impact water supply, availability, or projects in the State Water Plan?



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#### Task 7 – Flood Response Information and Activities

- Summarize existing flood response preparations.
- Coordinate with entities in the region to gather information
- RFPGs do not perform analyses or other activities related to disaster response or recovery.



Texas State Guard Hurricane Harvey emergency response.

Image: Texas State Guard



## Task 8 – Administrative, Regulatory, and Legislative Recommendations

- Develop policy recommendations to implement and achieve the RFPG's stated goals and plans.
- Consider potential new revenueraising opportunities to fund flood activities in the region.



Image: TWDB



## Task 9 – Flood Infrastructure Financing Analysis

- Survey and report on how sponsors propose to finance recommended FMEs and FMPs
- Include recommendations on the proposed role of the State in financing FMEs and FMPs



Dam on the Llano River under Hwy 16 in Llano, Texas.

Image: TWDB

www.twdb.texas.gov



#### Task 10 – Public Participation & Plan Adoption

Administrative activities not included in other tasks, including:

- Meeting preparations, notices, agendas, materials, minutes, presentations, and public comments
- Website creation and maintenance
- Intraregional and interregional coordination and communication to develop the regional flood plan.



TWDB flood outreach meeting in Bastrop, TX.

Image: TWDB



Image: Brent Hanson, U.S. Geological Survey. Public domain.

# Questions? Comments?

#### **Other Presentations**

# Agenda Item 6

Consider
Nominating &
Electing RFPG Vice
Chair & Secretary

- 1. Nominations for Vice Chair by members
- 2. Discussion and consider taking action to elect Vice Chair
- 3. Nominations for Secretary by members
- 4. Discussion and consider taking action to elect Secretary

Consider Nominating & Electing two members-at-large to Serve on the Executive Committee

- Nominations for two Executive
   Committee members-at-large by members
- 2. Discussion and consider taking action to elect Executive Committee members-at-large

Discussion & possible consideration to add additional voting & non-voting positions to the RFPG

- 1. Public Comments (Public Comments limited to 3 minutes per speaker)
- 2. Discussion and consideration of additional voting and non-voting positions

Update from
Planning Group
Sponsor regarding
status of RFPG grant
contract with the
TWDB

- 1. Discussion on status of application for Regional Flood Planning Grant Funds
- 2. Discussion of technical consultant procurement process
- 3. Discussion on Scope of Work posted with TWDB RFA

Discuss a means by with the RFPG sponsor will develop and host a public website

Discuss a means by with the RFPG sponsor will accept written public comment prior to and after meetings

Discussion of the required solicitation for persons or entities who request to be notified of RFPG activities

Agenda Item 14
Public General
Comments

Public Comments limited to 3 minutes per speaker

Consider date and agenda items for next meeting

Adjourn

Agenda Item 16