Region 6 - San Jacinto Regional Flood Planning Group January 13, 2021 9:00 AM **Hybrid Meeting**

Item 1: Call to Order

Item 2: Welcome and Roll Call

Item 3: Registered Public Comments on Agenda Items (3 minutes limit per person)

Item 4: Texas Water Development Board Update

Item 5: Approval of minutes a. December 9, 2021

Meeting Minutes Region 6 San Jacinto Regional Flood Planning Group December 9, 2021 9:00 AM Hybrid Meeting

Roll Call:

Voting Member	Interest Category	Present (x) / Absent () /
	(Executive Committee role)	Alternate Present (*)
Timothy E. Buscha	Industries (Chair)	X
Alia Vinson	Water Districts (Vice Chair)	X
Alisa Max	Counties (Secretary)	X
Gene Fisseler	Public (At-Large member)	X
Matthew Barrett	River Authorities (At-Large member)	X
Elisa Macia Donovan	Agricultural Interests	X
TBA	Small Business	N/A
Paul E. Lock	Electric Generating Utilities	X
Rachel Powers	Environmental Interests	X
Stephen Costello	Municipalities	
Marcus Stuckett	Flood Districts	X
Todd Burrer	Water Utilities	X
Brian Maxwell	Coastal Communities	X* Bob Kosar
Christina Quintero	Public	X
Neil Gaynor	Upper Watershed	X

Non-voting Member	Agency	Present(x)/Absent()/ Alternate Present(*)
Hope Zubek	Texas Parks and Wildlife Department	X
Natalie Johnson	Texas Division of Emergency Management	
Kristin Lambrecht	Texas Department of Agriculture	X
Joel Clark	Texas State Soil and Water Conservation Board	
Colleen Jones	Texas General Land Office	X* Brook Bacuetes
Megan Ingram	Texas Water Development Board	x
Melinda Johnston	Texas Commission on Environmental Quality	X
Jeff Taebel	Houston-Galveston Area Council	Х
Ellie Alkhoury	Texas Department of Transportation	
Tom Heidt	Port Houston	X
Michael Turco	Harris-Galveston Subsidence District	Х
Brandon Wade	Region H Regional Water Planning Group	
ТВА	U.S. Army Corps of Engineers	
Sally Bakko	Gulf Coast Protection District	

Liaisons from RFPG	Regional Flood Planning Group	<u>Present(x)/Absent()/</u> <u>Alternate Present (*)</u>
Todd Burrer	Trinity Region RFPG	Х
Stephen Costello	Neches Region RFPG	
Michael Turco	Lower Brazos RFPG	Х

<u>Liaisons from Other</u> <u>Entities</u>	Entity	<u>Present(x)/Absent()/</u> <u>Alternate Present (*)</u>
Mark Vogler	Lower Brazos RFPG	Х
Scott Harris	Trinity Region RFPG	
Liv Haselbach	Neches Region RFPG	X
Brandon Wade	Region H Regional Water Planning Group	

<u>Technical Consultant</u> <u>Team Members</u>	Entity	<u>Present(x)/Absent()/</u> <u>Alternate Present (*)</u>
Cory Stull	Freese and Nichols Inc.	Х
Maggie Puckett	Freese and Nichols Inc.	Х
Hayes McKibben	Freese and Nichols Inc.	Х

Quorum:

Quorum: Yes Number of voting members or alternates that were present: 13 Number required for quorum per current voting membership of 15:8

Attendees:

Alex Chadwell	Kena Ware
Ayanna Jolivet McCloud	Lillie Norton
Chris Mueller	Lisa Mairs
David Brown	Marcelo Moacyr
Dr. Shelley Sekula-Gibbs	Mark Klein
Fatima Berrios	Matt Lopez (FCD)
James Bronikowski	Andrew Moore
Jill Boullion	Susan Chadwick
Justin Bower	Tom Wilshusen

**Meeting attendee names were gathered from those who entered information on the GoToWebinar meeting.

All meeting materials were available for the public at: http://www.twdb.texas.gov/flood/planning/regions/schedule.asp

AGENDA ITEM NO. 3: Registered Public Comments on Agenda Items (limit of 3 minutes per person)

Ms. Berrios stated there were no registered public comments.

AGENDA ITEM NO. 4: Texas Water Development Board Update

Ms. Ingram stated there were no updates from the TWDB.

AGENDA ITEM NO. 5: Approval of minutes - November 18, 2021

Mr. Buscha opened the floor for comments to the meeting minutes. Ms. Berrios stated a minor comment on behalf of Mr. Barrett who had not vet joined the meeting. She stated there was an error on the dollar amount specified by Mr. Buscha during the last meeting for the additional funds. Ms. Berrios stated the amount had been corrected in the minutes. Mr. Fisseler moved to approve the minutes as revised. Ms. Max seconded the motion and it carried unanimously.

AGENDA ITEM NO. 6: Announcement of new Alternate Members and new Non-Voting Members Mr. Buscha stated there were no new member announcements.

AGENDA ITEM NO. 7: Nomination, discussion, and possible action to add a fifth member to the Public Engagement Committee

Mr. Buscha asked for any volunteers to join the Public Engagement and Technical Committee, stating that he anticipated increased action for both committees once 2022 began. Ms. Donovan, the Chair of the Technical Committee, then encouraged members to join the Technical Committee pointing out the importance of the committee for a successful Regional Flood Plan. Seeing no volunteers, Mr. Buscha deferred the agenda item to next month.

AGENDA ITEM NO. 8: Update from the Project Sponsor regarding the Solicitation Process for the selection the Small Business Voting Member representative, and Officer Elections.

Mr. Buscha asked the Project Sponsor to provide an update on the solicitation process. Ms. Berrios stated the solicitation notice had been distributed among all members, and all county clerks within Region 6. She stated the deadline to submit applications was January 3, 2022, and stated an application had already been received. Ms. Berrios stated the notice had been sent to TWDB and would soon be posted on all SIREPG social media accounts.

Mr. Buscha asked for an update for officer elections. Ms. Berrios stated that, per the SJRFPG Bylaws, officer elections were required to be held every year in January, and stated an agenda item would be included on the January agenda for that matter. She stated a 30-day notice was required to be given, and advised she would send out an email notice with further information regarding member terms and officer elections. Mr. Buscha thanked Ms. Berrios and moved to the next agenda item.

AGENDA ITEM NO. 9: Liaison Reports pertaining to other region(s) progress and status:

- a. Trinity Mr. Buscha stated the liaison for the Trinity RFPG was Mr. Burrer who was not present during this time to provide an update.
- b. Neches Region Ms. Haselbach, seeing Mr. Costello was not present, stated that the Neches RFPG would be meeting next week for goal finalization and adoption.
- c. Lower Brazos Region Mr. Turco stated the Lower Brazos RFPG had received its draft of the Technical Memorandum from its Technical Consultant, and stated the RFPG would be reviewing and discussing the Technical Memorandum next week on December 14, 2021.
- d. Region H Water Planning Group Mr. Buscha stated the liaison was not present and moved to the next agenda item.

AGENDA ITEM NO. 10: Presentation and updates from the SJRFPG Technical Consultant & Reminder to complete the stakeholder survey

a. Approval of Technical Memorandum

Mr. Stull stated the presentation by Freese and Nichols Inc. (FNI) would be brief and stated that once 2022 began, FNI would make quick strides for Regional Flood Plan efforts, and encouraged members to volunteer to serve on the Technical Committee. He asked Ms. Puckett to highlight some of the January and March deliverables. Ms. Puckett proceeded with her presentation and stated that the Technical Memorandum was an interim progress document for the Texas Water Development Board, and that it would continue to be revised and evolve for further improvement. She stated additional spatial data would be incorporated as it was received, as well as any additional guidance received by the TWDB. She mentioned a GIS dashboard was developed by FNI and indicated a short demonstration would be provided by Mr. Hayes McKibben, another FNI employee.

Mr. Stull reiterated what Ms. Puckett had stated and emphasized that all content in the Technical Memorandum was not finalized. He stated FNI would continue to coordinate with stakeholders for further data collection for inclusion in the final report. Mr. Stull then handed the presentation to Mr. McKibben and asked him to provide the demonstration for the GIS Dashboard tool. Mr. McKibben provided a general overview of the functions and layers of the GIS Dashboard.

Mr. Fisseler was impressed with the GIS tool and asked if it had been developed by FNI and whether it was available or the other Regional Flood Planning Groups. Mr. Stull stated that the tool was developed by FNI and stated the tool was aimed to add value, and help members visualize the scope of the plan. Mr. Buscha asked who the intended audience of the tool was. Mr. Stull stated it was aimed for the voting members of the SJRFPG. Mr. Gaynor asked when the deadline would be to submit comments to the Technical Memorandum. Mr. Stull stated that comments to the Technical Memorandum would continue to be accepted until summer 2022. Discussion ensued.

Mr. Barrett asked if FNI was looking for Technical Memorandum approval during this meeting with the potential of minor, non-substantive comments. Mr. Stull indicated yes, stating the Technical Memorandum would continue to be revised and would only serve as a progress report. Mr. Taebel noted some projects listed in the Technical Memorandum did not accurately represent the owner/sponsor. Mr. Stull addressed Mr. Taebel's comment by stating FNI would continue to coordinate with all stakeholders for accurate data portrayal. Mr. Stull added that he hoped that the Technical Memorandum would encourage stakeholders to provide additional information and data for development of Flood Mitigation Projects (FMPs). Lastly, Mr. Stull stated moving forward, FNI would be making quick progress, specifically noting the development of regional minimum standards and needs analysis.

Ms. Puckett gave an overview of the public engagement efforts, highlighting that the SJRFPG social media profiles had gone live. She stated FNI would be working on an stakeholder outreach plan to increase stakeholder responses, pointing out in-person meetings appeared to be most successful at generating responses. Mr. Stull asked the SJRFPG for approval of submission of the Technical Memorandum. Ms. Vinson moved to approve the submission of the Technical Memorandum to the TWDB by FNI with minor, non-substantive comments. Mr. Fisseler seconded the motion, which carried unanimously.

AGENDA ITEM NO. 11: Approval and certification of administrative expenses incurred by the Project Sponsor for the development of Regional Flood Plan

Ms. Berrios stated the Project Sponsor would like to defer the item to next month, given there were very minor expenses incurred. Mr. Buscha then deferred the agenda item to next month.

AGENDA ITEM NO. 12: Presentation of 2021 Planning Group key dates and deadlines: a. Upcoming planning schedule milestones

b. Next SJRFPG planning meeting to be held on January 13, 2021

Ms. Powers stated she would like to include Public Engagement Committee meetings in the coming year to increase public and stakeholder participation.

AGENDA ITEM NO. 13: Update and discussion pertaining to in-person RFPG meeting location(s)

Mr. Buscha stated the next meeting would be January 13, 2022 and that the Project Sponsor would be working on solving telecommunication errors. Ms. Berrios stated the next meeting was proposed to be held at a Harris County Flood Control building – Brookhollow, which met all technological requirements. Mr. Buscha asked all SJRFPG members to be mindful of the next meeting location.

AGENDA ITEM NO. 14: Reminder regarding Planning Group member training on Public Information Act and Open Meetings Act

Mr. Buscha stated Ms. Berrios would be following-up with all members still missing their training certificates.

AGENDA ITEM NO. 15: Consider agenda items for next meeting

- Officer Elections
- Updates to Presentation for Member Use
- Fifth member to the Technical and Public Engagement Committee
- Solicitations for Small Business Voting Member Update

AGENDA ITEM NO. 16: Public comments - limit 3 minutes per person

Ms. Berrios confirmed that no public comment requests had been received.

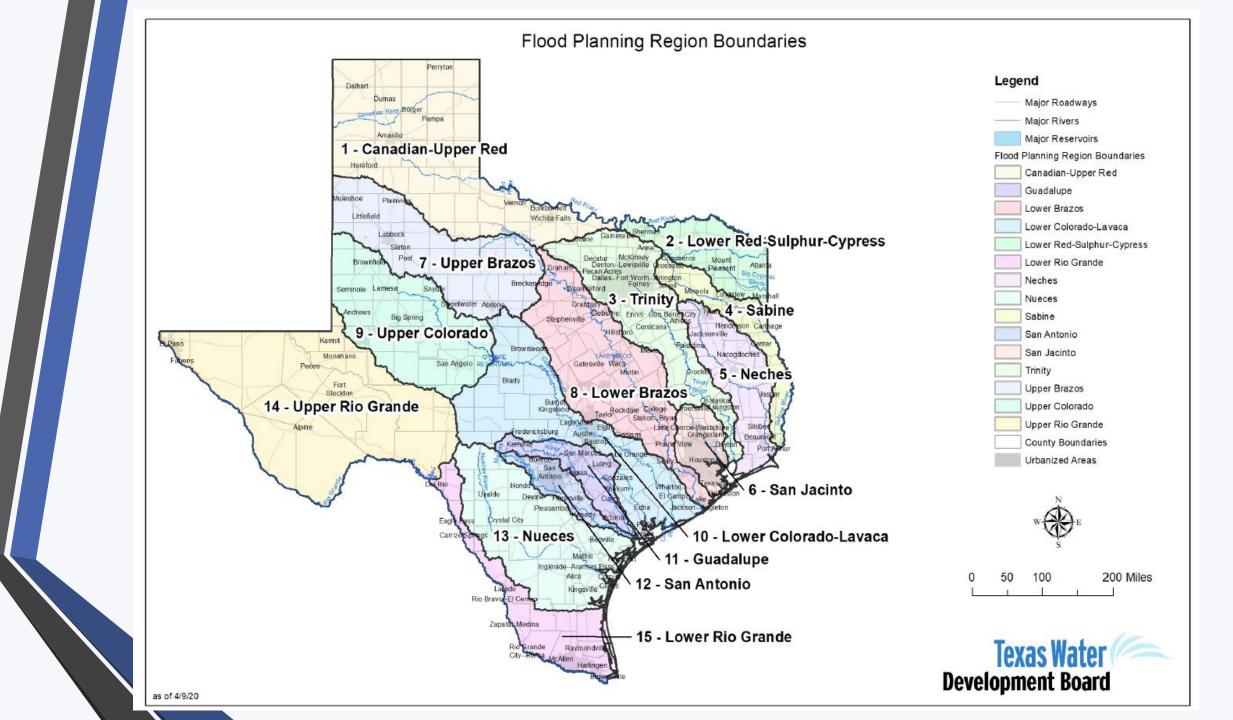
AGENDA ITEM NO. 17: Adjournment

Mr. Buscha adjourned the meeting at 10:20 a.m.

Alisa Max, Secretary

Timothy Buscha, Chair

Item 6: Announcement of new Alternate Members and new Non-Voting Members



Item 7: Liaison Reports pertaining to other region(s) progress and status: a. Trinity Region b. Neches Region c. Lower Brazos Region d. Region H Water

Item 8: Update from Project Sponsor Regarding the Solicitation Process for the Small Business Voting Member Position

Item 9: Officer Elections – Discussion, Possible Action and Consideration of Nominations to the SJRFPG Executive Committee, Including At-Large Members.

Item 10: **Discussion, and Possible Action** Regarding the Membership of all **Advisory Committees** a. Technical Committee b. Public Engagement Committee

Item 11: Update and Discussion on Presentation Requests on behalf of the SJRFPG

Requirements to give Presentations on behalf of SJRFPG

1. Approval by Chair or Vice Chair

2. Completion of Public Engagement Tracking Form

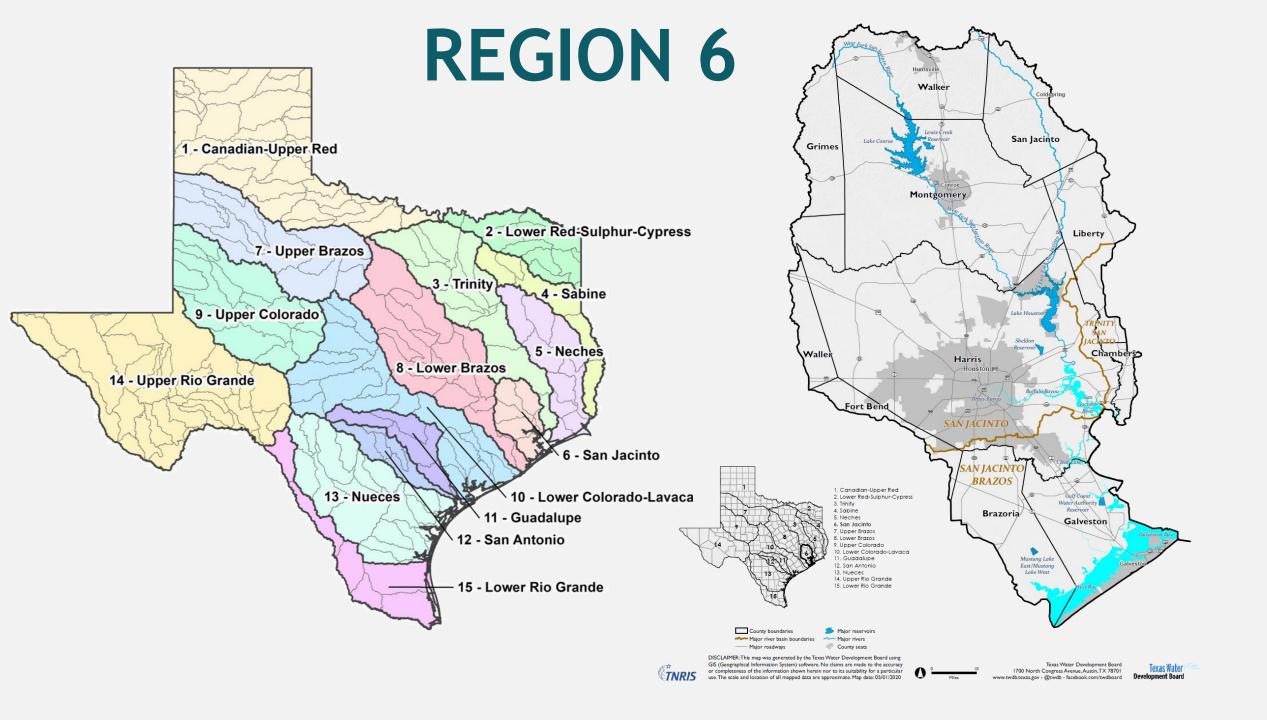


SJRFPG members speaking on behalf of the SJRFPG must email this completed form to SanJacFldPG@eng.hctx.net after each public engagement event they speak at for record keeping.

Speaker(s):	
Name of Event:	
Sponsor(s):	
Date:	Time:
Address:	
Approximate Number of Attendees:	
Main Talking Points Given by Speaker(s):	
•	
•	
•	



SAN JACINTO REGIONAL FLOOD PLANNING GROUP **REGIONAL FLOOD PLANNING GROUP**



REGION 6- San Jacinto Regional Flood Planning Group

The SJRFPG is the second most populated flood planning region in Texas, which is home to the fourth largest city in the United States: Houston.

- Population Estimate: 6,297,609
- Approximate Area: 5,089 Square Miles
- Approximate Stream Miles: 3,969
- **Counties Represented:** Brazoria*, Chambers*, Ford Bend*, Galveston*, Grimes*, Harris, Liberty*, Montgomery, San Jacinto*, Walker* and Waller*

*indicates this county is partially within this RFPG and is also represented by at least one other RFPG

REGION 6 Members

<u>Timothy Buscha</u>, Chair, Industries Voting Member Representative <u>Alia Vinson</u>, Vice Chair, Water Districts Voting Member Representative <u>Alisa Max</u>, Secretary, County Voting Member Representative <u>Planning Group Sponsor</u>: Harris County <u>Technical Consultant:</u> Freese and Nichols Inc.

Voting Members	Stakeholder Category
Gene Fisseler	At-Large, Public
Matthew Barrett	A-Large, River Authorities
Christina Quintero	Public
Elisa Macia Donovan	Agricultural Interests
ТВА	Small Business
Marcus Stuckett	Flood Districts
Paul E. Lock	Electric Generating Utilities
Rachel Powers	Environmental Interests
Stephen Costello	Municipalities
Neil Gaynor	Industries
Todd Burrer	Water Utilities
Brian Maxwell	Coastal Communities



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

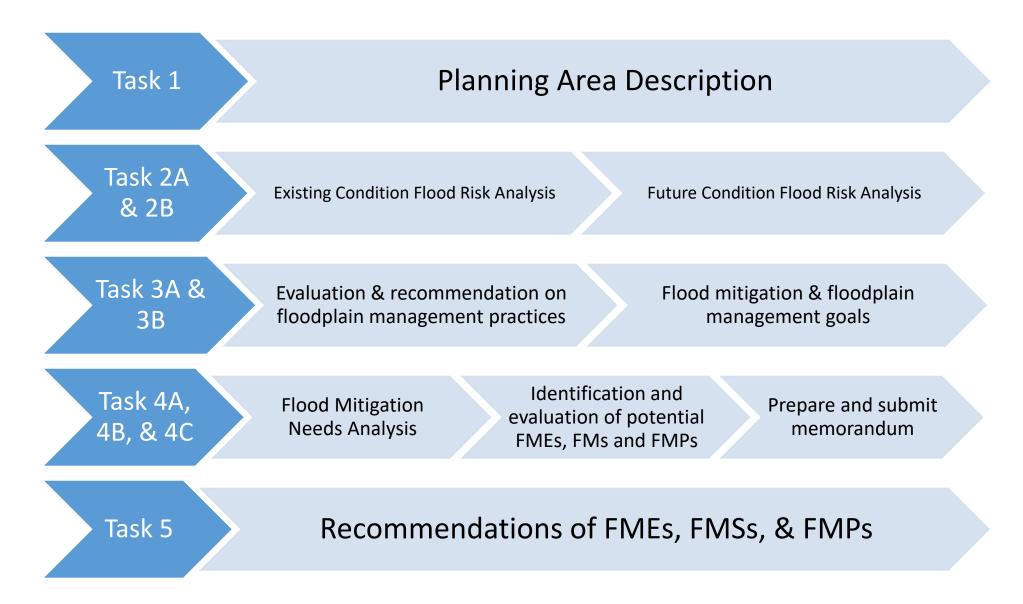
Texas Water Development Board - Regional Flood Planning Grant

The Region 6 San Jacinto RFPG was established by the TWDB on October 1, 2020 with the purpose to carry out the responsibilities placed on regional flood planning groups as required by Texas Water Code Chapter 16 and TWDB rules, including 31 Texas Administrative Code (TAC) Chapters 361 and 362.

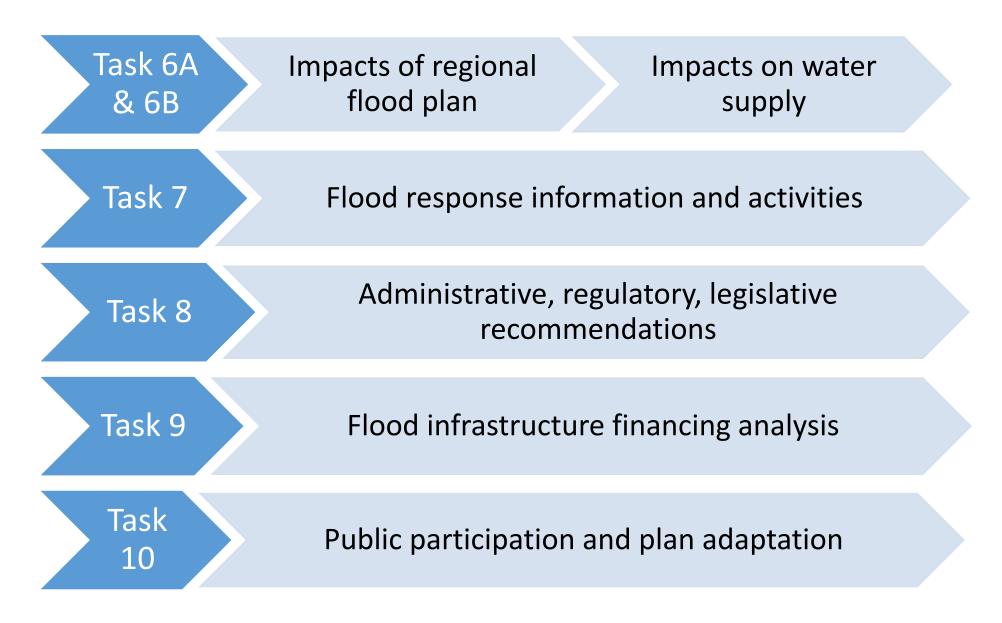
The main goals for the SJRFPG is to develop a regional flood plan by: identifying flood risks, establishing flood mitigation and floodplain management goals; and, recommending evaluations, strategies, and projects to reduce flood risks.

- TWDB Grant is \$19.5 million in funds allocated between 15 regions
- Region 6 SJRFPG will received \$2.446 Million and later allocated an additional \$627,500 for a combined \$3,073,500

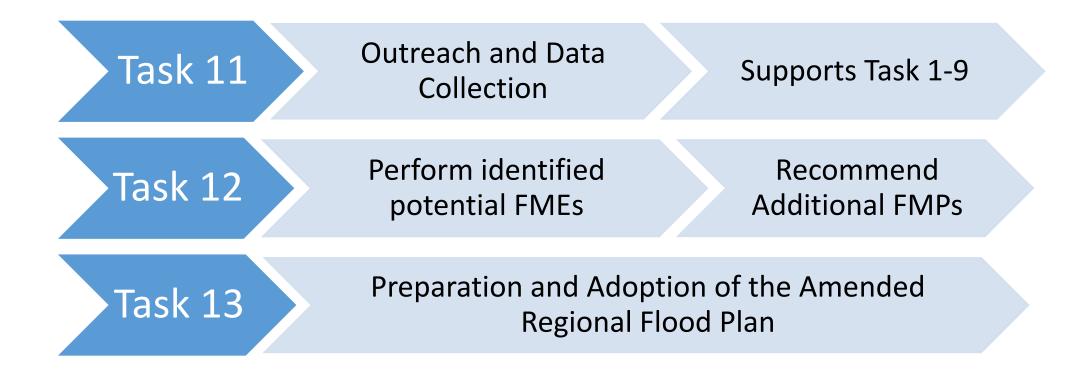
REGION 6- SJRFPG Scope of Work



REGION 6- SJRFPG Scope of Work



REGION 6- SJRFPG Additional Tasks per Contract Amendment



Working Conceptual Schedule**

REGION 6- TIMELINE



First Cycle of Regional Flood Planning

		1		—			_																													
'	1 1	1	Planning		2020							20)21											20	22								2023	3		
Item	Entity	Activity	SOW Task #	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Iun	Ę	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	nn	Iu	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
1	TWDB	Designation of RFPG members																																		
2		RFPG First Meetings																																		
3	REPG	Public participation, stakeholder input, post notices, hold meetings, maintain email lists and website.	10																																	
4		Publish Request for Regional Flood Planning Grant Applications	′																																	
5	RFPG/Sponsor	Submission of Applications for Regional Flood Planning Grants to TWDB		\Box'				(DUE	JAN 2	21, 202	21)																									
6	TWDB/Sponsor	Contracts	′	\Box'																																
7	RFPG/Sponsor	Solicitation for Technical Consultant by RFQ process	<u> </u>	Ľ																																
8	RFPG	Pre-Planning Meetings for Public Input on Development of RFP	['	\Box'																																
9	RFPG	Selection of Technical Consultant																																		
10	RFPG/Sponsor	Execution of Technical Consultant Subcontract																																		
11	RFPG	Planning Area Description	1																																	
12	RFPG	Existing Condition Flood Risk Analyses	2A																																	
13	RFPG	Future Condition Flood Risk Analyses	2B																																	
14	KEPG I	Evaluation and Recommendations on Floodplain Management Practices	3A	\Box	\Box																															
15	RFPG	Flood Mitigation and Floodplain Management Goals	3B																																	
16	RFPG	Flood Mitigation Need Analysis	4A																																	
17	RFPG	Identification and Evaluation of Potential FMEs and Potentially Feasible FMSs and FMPs	4B	\Box																																
18	DEDG I	Preparation and Submission of Technical Memorandum to the TWDB	4C	\Box'																(DUE	JAN 7	7, 202	2)													
18		Issue Notice-to-Proceed on Task 5	′	ſ																																
20		Recommendation of FMEs, FMSs, and FMPs	5	ſ																																
21		Impacts of Regional Flood Plan	6A	ſ																																
22	RFPG	Contributions to and Impacts on Water Supply Development and the State Water Plan	6B	\Box'																																
23	RFPG	Flood Response Information and Activities	7																																	
24	RFPG	Administrative, Regulatory, and Legislative Recommendations	8	\Box																																Acronyms:
25	RFPG	Flood Infrastructure Financing Analysis	9	ſ																																RFP - Regional Flood Plan
26	RFPG	Preparation and Submission of Draft RFP to the TWDB	10																							(UG 1	, 2022	2)						RFPG - Regional Flood Planning Group
27	RFPG	Public Input on Draft RFP	10																																	FME - Flood Management Evaluation
28	TWDB	TWDB Review and Comment on the Draft RFP	<u> </u>																																	FMS - Flood Management Strategy
29	RFPG	Incorporate TWDB & Public Input into Final RFP	10																																	FMP - Flood Mitigation Project
30	RFPG	Adopt and Submit the 2023 RFP to the TWDB	All																													(DUE	JAN 1	10, 20	123)	
			<u> </u>	_																		_										_	-			1

REGION 6- Key Milestones

O May 18, 2021

Pre-Planning Meeting

Jan. 7, 2022

Submittal of Technical Memorandum

Aug. 7, 2022

Submittal of Draft Regional Flood Plan

Public Outreach & Engagement Meeting

🔵 Aug. 31, 2021

Submittal of Supporting Geospatial Data for Technical Memorandum



Item 12: Presentation and Updates from the SJRFPG Technical Consultant



Task 2B Future Conditions Flood Risk Analysis



January 13, 2022



Agenda

- Goal of future conditions
- Available data that was used in our analysis
- Comparisons of modeling efforts
- Recommendation on the future floodplain
- Summary of what other areas are doing

Goals for today's meeting:

- 1) Provide initial feedback on high-level approach to delineating future conditions flood hazard.
- 2) Decide on path forward for utilizing committee input.



TWDB Goals

Perform future condition flood risk analyses for the region comprising:

- Flood hazard analyses (location, magnitude, and frequency of flooding)
- Flood exposure analyses (who and what might be harmed)
- Vulnerability analyses (communities and critical facilities)

- Obtain a general understanding of future flood risk
- Not a regulatory product



Vulnerability



What is Future Flood Risk?



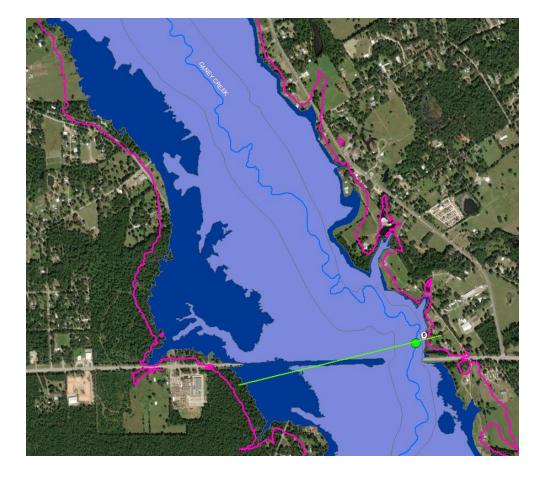
Change in flood risk due to variety of factors

Riverine Floodplain Extents

- Development
- Population growth
- Rainfall intensity
- Climate change

Coastal Regions

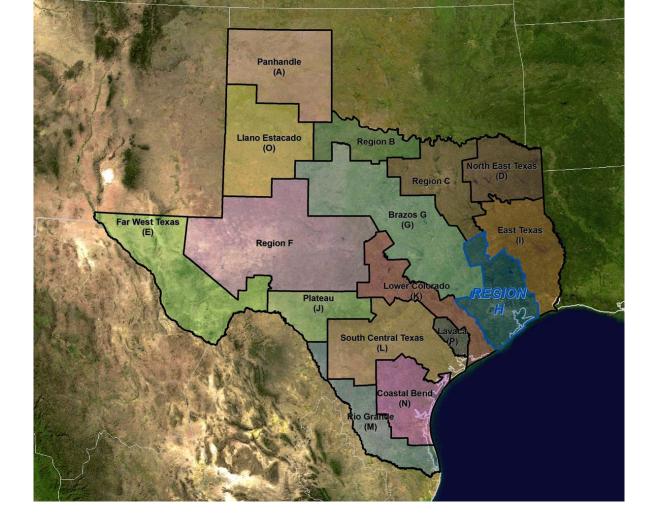
- Storm surge
- Sea level change
- Subsidence
- Coastal erosion



• Region H will see about 3.5

- million more residents over the next 30 years (a 37% increase)¹
- 1.9 million residents in Montgomery, Harris, Galveston and Brazoria Counties (a 30% increase)

¹ Source: TWDB 2022 Texas State Water Plan, Planning Region H

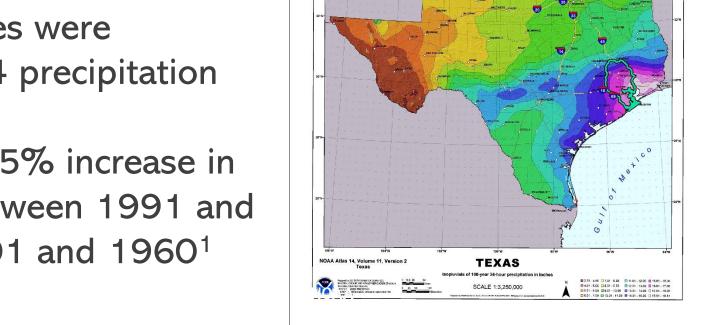




Population Growth

Rainfall Intensity

- Rainfall intensity values are anticipated to be influenced by climate change
- Redefined rainfall amounts are
 published by NOAA
- Rainfall intensity changes were reflected in the Atlas 14 precipitation estimates
- Texas coast saw a 10-15% increase in annual precipitation between 1991 and 2012 compared to 1901 and 1960¹



Source: NOAA Atlas 14



24-hour, 100-year Atlas 14 Precipitation

Differences

from USGS Rainfall

1 Source: "Climate Change and Sea-Level Rise Effects for the HSC ECIP Feasibility Study", USACE

Climate Change



- Guidance from Office of the Texas State Climatologist to TWDB¹
- Implication of climate change on rainfall depth
- Assumes observed trends continue and Atlas 14 is an accurate estimate

Recommended Ranges for 25- to 500-year Climate Change Rainfall						
	20	21	2050-2060			
Location	Minimum	Maximum	Minimum	Maximum		
Urban Areas	5%	12%	12%	20%		
Rural Areas/River	-2%	5%	-5%	10%		

Inherent uncertainty in the data

¹ Source: "Climate Change Recommendations for Regional Flood Planning"

Storm Surge



• An "abnormal rise of water generated by a storm, over and above the predicted astronomical tides"¹

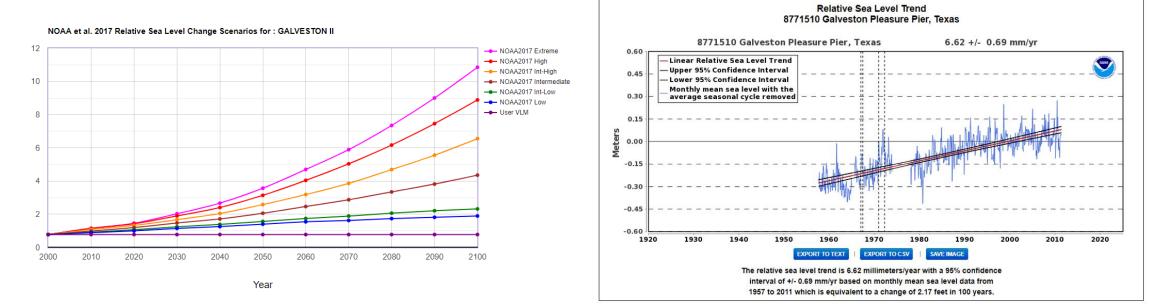
- Advanced modeling due to a multitude of influences
- Research is being done on types of rainfall in correlation with storm surge



Sea Level Change



- Total global mean sea level rise for 1902-2015 is estimated at 6 9"
- Rate of sea level change is accelerating
- Over next 30 years, estimated rise is 192 200 mm (roughly 8")



Relative Sea Level Trend for Historical Data – Galveston (NOAA) Link: Sea Level Trends - NOAA Tides & Currents

RSLC in feet (NAVD88)

Source: NOAA Tides & Currents

Source: Groundwater Regulation and the Development of Alternative Source Waters to Prevent Subsidence, Houston Region, Texas, USA

Subsidence

High reliance on groundwater during the development of Harris County

96°0'0"W

Waller

0

topenber

0

AREA B

Bay City

North-American Datum of 1983

AREA A

0

Universal Transverse Mercator projection, zone 15

Base from Harris-Galveston Subsidence District Digital Data, 1:100,00

0

30°15'0"

N..0.0.0E

29°45'0"N

N..0.02.62

N..0.0.62

95°45'0"W

95°30'0"W

O QUO The Woodlands

AREA 3

0

95°15'0"W

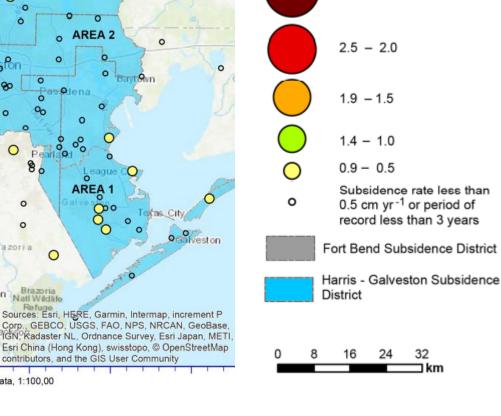
8.

0

0 Brazoria

Angleton Natl Wildlife

TWDB has a subsidence prediction tool for the Gulf Coast that can be used for specific areas



95°0'0"W

AREA 2

AREA 1

Coc

94°45'0"W

Liberty



EXPLANATION

Subsidence rate (2014-2018)

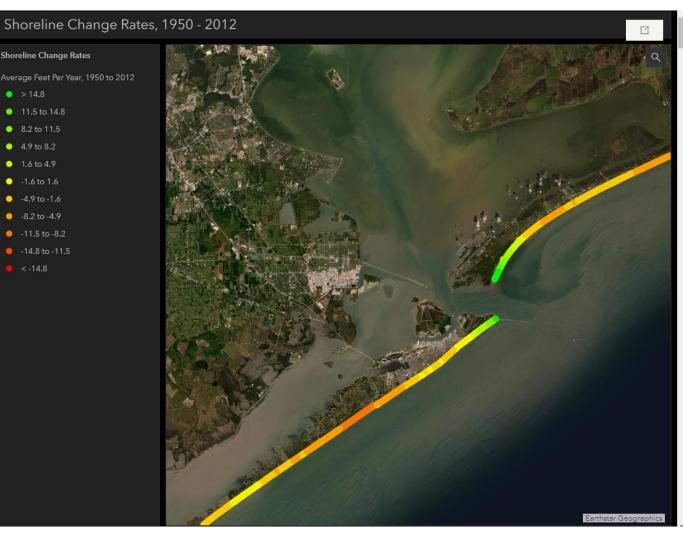
cm yr -1

Greater than 2.5

¹ Source: Coastal Texas Study, "Beaches & Dunes"

Coastal Erosion

- Shoreline erosion can destroy the natural barriers and expose communities to threatening storms.
- Between the 1930s and 2012, the Texas coast lost on average 4 feet of shoreline per year¹









- Define Future Condition Flood Hazard
 - Use available information, no H&H modeling
 - Rely on existing Floodplain Quilt (Task 2A)
 - TWDB identified four methods for determining hazard:
 - 1. Change in WSEL based on change in population
 - 2. Existing 0.2% becomes the Future 1%
 - 3. Combination of 1 and 2, or an RFPG proposed method
 - 4. Request TWDB to perform a desktop analysis
- Projections on changes over the next 30 years
- Summary and qualitative description of risk

Future 100-Year Determination

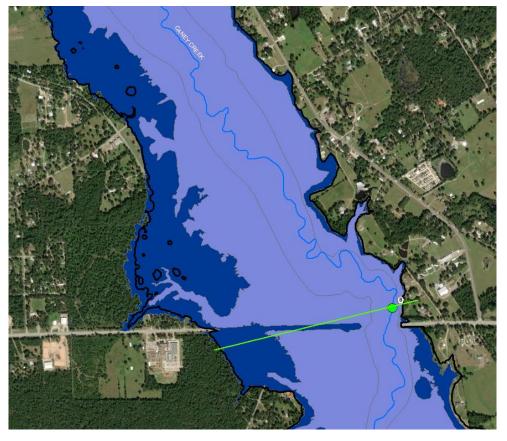
- Available Data
 - Existing conditions floodplain quilt
 - Existing studies within upper and mid watersheds
- Recommendation
 - Existing 0.2% becomes Future 1%
 - Existing 0.2% + buffer becomes Future 0.2%



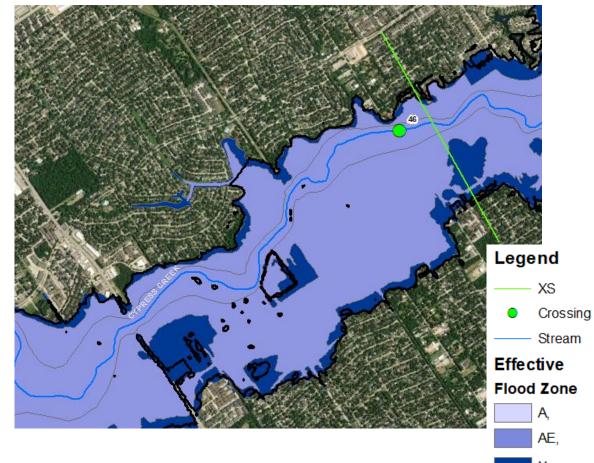
Future 100-Year Determination



Caney Creek



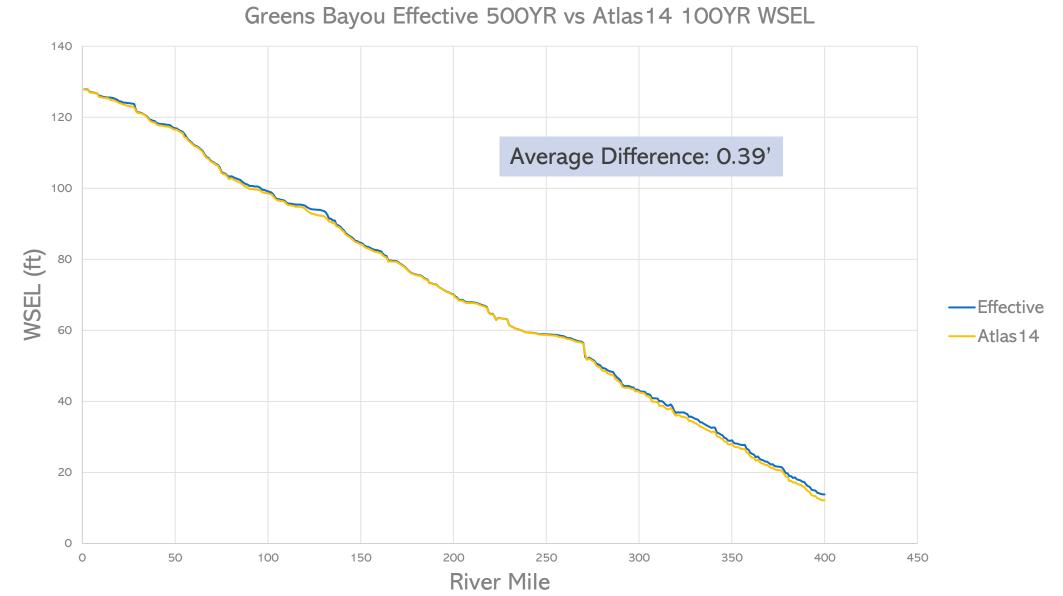
Cypress Creek



Future Inundation Boundary 100YR

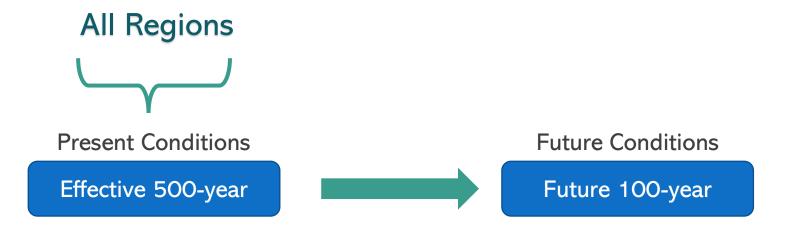
Greens Bayou Comparison





Recommendations – 100-year



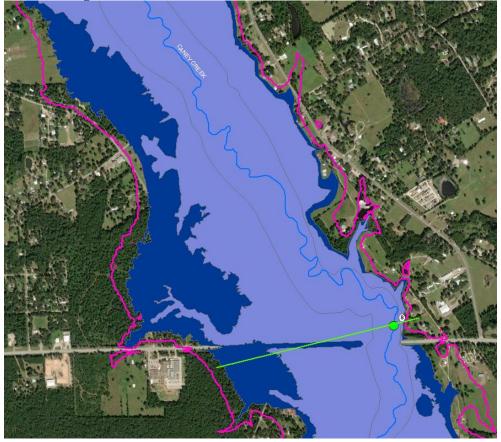


The current effective 500-year floodplain is an appropriate approximation for the future 100-year floodplain

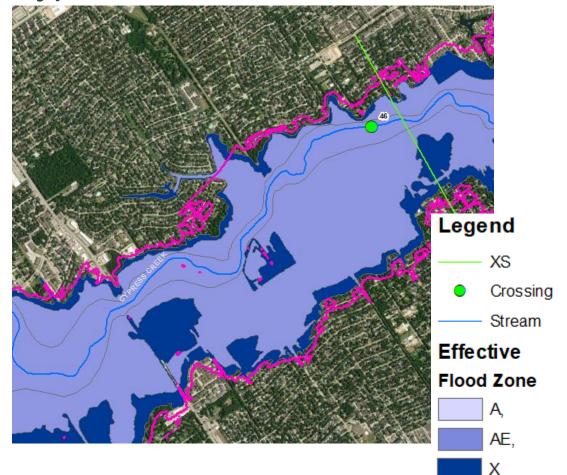
Future 500-Year Determination



Caney Creek



Cypress Creek



Future Inundation Boundary 500YR

River Modeling

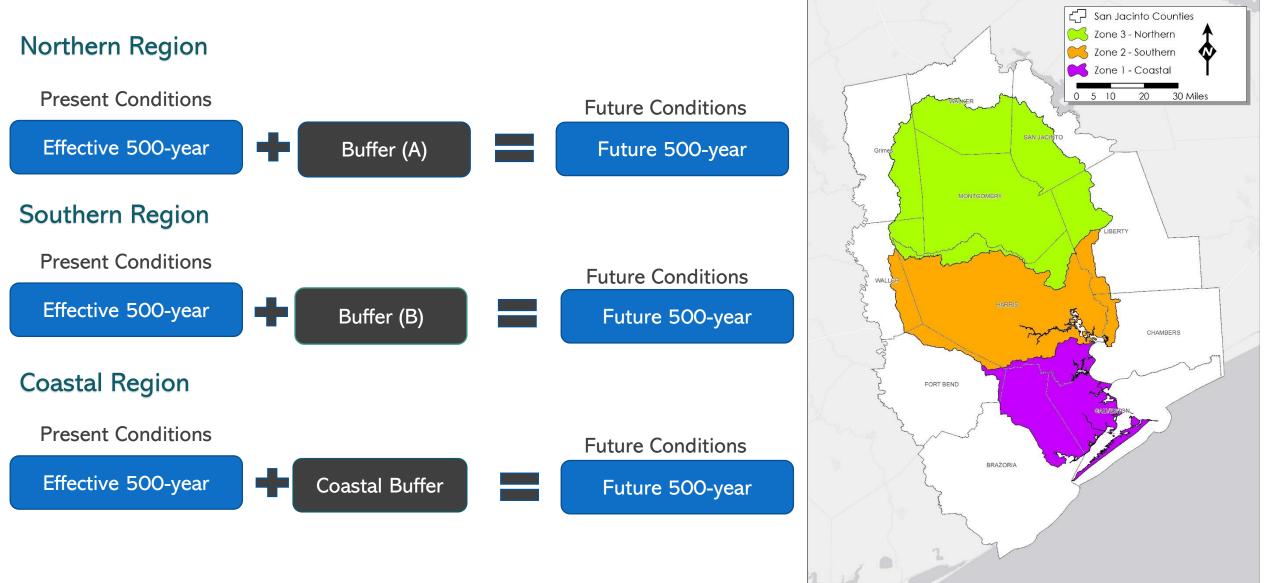


Effective 500-year storm			
Channel	Average Difference of Floodplain Top Width (ft)	Ratio	
Caney Creek	380	0.87	Northern Regior
Spring Creek	350	0.88	
Greens Bayou	700	1.21	Southern Region
Buffalo Bayou	800	1.69	

*Future Modeled storm includes future development + Atlas 14 rainfall values

San Jacinto Regions





What are other regions doing?



Region	Future 1% Floodplain	Future 0.2% Floodplain			
Lower Brazos*	Existing 0.2%	Existing 0.2% + (Delta or Buffer)			
Trinity	Existing 0.2%	Existing 0.2% + (Delta or Buffer)			
Neches	Existing 0.2%	Existing 0.2% + (Delta or Buffer)			
Sabine	Existing 0.2%	Existing 0.2% + (Delta or Buffer)			
Guadalupe	Existing 0.2%	Existing 0.2% + (Delta or Buffer)			
San Jacinto	Existing 0.2%	Existing 0.2% + (Delta or Buffer)			

*The Lower Brazos region is recommending no change for the future floodplains along large rivers. The recommendations listed for this region are for tributaries.

Schedule



January

- RFPG to discuss approach to Task 2B on January 13th
- Technical Committee to further discuss approach to Task 2B
- Technical Consultant to develop deliverable based on Technical Committee guidance

February

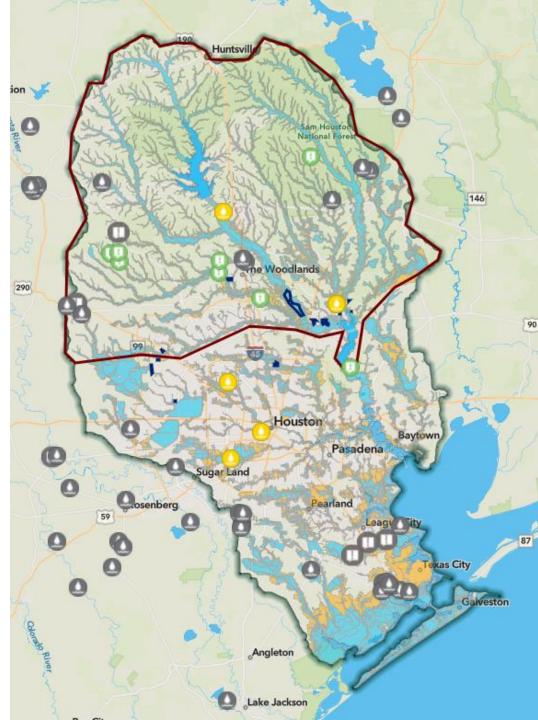
- Technical Consultant to provide Technical Memorandum (March) to RFPG for review
- RFPG to review Technical Memorandum (March) and provide comments
- RFPG to meet and approve Technical Memorandum (March)

March

 Technical Consultant to submit the Technical Memorandum and required materials to the TWDB by March 7th, 2022

Outreach & Engagement

- Stakeholder survey e-blast sent 11/23
- Social Media e-blast sent 12/2
- Stakeholder survey e-blast follow-up sent 12/6
- 830 unique users to survey site
- 42 survey responses
- GLO Central Region data transfer in late
 January



Item 13: Approval and Certification of Administrative Expenses Incurred by The Project Sponsor for The Development of Regional Flood Plan

Administrative Expenses Incurred by Project Sponsor for 11/6/2021 – 12/31/2021

-						Unemployment			
From	То	Total Salary	Social Security	Group Insurance	Workers Comp	Insurance	Retirement	Total	FY
11/6/2021	11/19/2021	346.71	26.52	93.08	3.47	0.69	52.35	522.82	FY2022
11/20/2021	12/3/2021	106.68	8.16	28.64	1.07	0.21	16.11	160.87	FY2022
12/4/2021	12/17/2021	481.32	36.82	100.24	4.81	0.96	72.68	696.83	FY2022
12/18/2021	12/31/2021	550.08	42.08	114.56	5.50	1.10	83.06	796.38	FY2022
-		1,484.79	113.58	336.52	14.85	2.96	224.20	2,176.90	

Item 14: Presentation of 2022 Planning Group Key Dates and Deadlines: a. Upcoming Planning Schedule Milestones b. Next SJRFPG Planning Meeting to be held on February 10, 2022

Item 15: Update and Discussion Pertaining to In-Person RFPG Meeting Location(S)

Item 16: **Reminder Regarding Planning Group Member Training on Public** Information Act and Open Meetings Act

Item 17: Consider Agenda Items for Next Meeting

Item 18: Public Comments – Limit 3 Minutes per Person

Item 19: Adjournment