

Lower Colorado-Lavaca
**REGIONAL FLOOD
PLANNING GROUP**

REGION 10

January 31, 2022

Region 10 Lower Colorado-Lavaca RFPG

- 1. Call to Order**
- 2. Welcome**
- 3. Approval of minutes from the previous meeting**

Region 10 Lower Colorado-Lavaca Flood Planning Group Meeting
 December 16, 2021
 9:30 AM
 Hybrid Meeting

Roll call:

Voting Member	Interest Category	Present (x) /Absent () Alternate Present (*)
Terry Been	Agricultural interests	X
Phillip Spenrath	Counties	X
Jason Ludwig	Electric generating utilities	
Kirby Brown	Environmental interests	
G. Nicholas "Nick" Textor	Flood districts	X
Brandon Klenzendorf	Industries	X
Matt Hollon	Municipalities	X
Frances Acuña	Public	X
Patrick Brzozowski	River authorities	X
Kelly Payne	River authorities	X
Ann Yakimovicz	Small business	X
Kacey Cubine Paul	Water districts	X
Hank Smith	Water utilities	

Non-voting Member	Agency	Present(x)/Absent()/ Alternate Present (*)
Charles "CW" Schneider	Texas Commission on Environmental Quality	Joined at 9:38am
Lauren Mayes	Texas Department of Agriculture	X
James Guin	Texas Division of Emergency Management	
Shonda Mace	Texas General Land Office	X
Beth Bendik	Texas Parks and Wildlife Department	X
Allen Nash	Texas State Soil and Water Conservation Board	
Tressa Olsen	Texas Water Development Board	*Anita Machiavello
Mark Vogler	Region 8 – Lower Brazos Liaison	* Brian Fambrough
Chuck Brown	Region 9 – Upper Colorado Liaison	
Ronald G. Fieseler	Region 11 – Guadalupe Liaison	X
Cara Tackett	Region 12 – San Antonio Liaison	

Quorum:

Quorum: **Yes**

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

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

Other Meeting Attendees: **

Michael Moya – Halff Associates, Inc.
 Cindy Englehardt – Halff Associates, Inc.
 Mike Personett – Halff Associates, Inc.
 Jay Scanlon – Freese & Nichols
 Cris Parker – HDR, Inc.
 Karen Ford – WaterPR
 Lauren Graber – LCRA
 Jennifer Bassett – LCRA

Jesse Redman – LCRA
 Marcin Tyszka – LCRA
 Kathy Gay Baca
 A Kennedy
 Nick Kincaid
 Meiko Mahi
 John P. Nett
 David Wheelock

Great Springs Project

**Meeting attendee names were gathered from those who entered information for joining the Zoom meeting.

All meeting materials are available for the public at:
www.lowercoloradolavacafood.org/meetings

Agenda:

1. Call to Order

Chair Phillip Spenrath called the meeting to order at 9:34 AM CST. 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.

2. Welcome

Chair Phillip Spenrath welcomed members and other attendees to the meeting.

3. Approval of minutes from the previous meeting

The draft meeting minutes were reviewed.

Recommended edit from Lauren – Ann Yakimovicz left at Item 11 not Item 10.

Ann Yakimovicz moved to approve the minutes with the proposed correction, seconded by Kelly Payne. The motion passed by a vote of 10-0.

4. Public comments– limit 3 minutes per person

Chair Phillip Spenrath called for public comments.

No comments were given.

5. TWDB Update

Anita Machiavello spoke about the notification requirements for the selection of officers.

6. Update from RFPG liaisons

Ann Yakimovicz reported that Region 9 is at a similar place to Region 10, finalizing goals. The group has chosen to focus more on urban than rural areas.

Pat Brzozowski reported that Region 12 & Region 11 were also in a similar place to Region 10, with much focus on public outreach.

Ron Fieseler reported that Region 11 has completed a draft of their technical report for submission to TWDB.

Brian Fambrough reported that Region 8 is also in a similar place, getting ready to submit to TWDB and preparing for an upcoming public meeting.

7. Update from the Planning Group Sponsor

Lauren Graber reported that there was a conference call with TWDB and the RFPG Chairs last week. TWDB notified the Chairs that the amended grant contracts and additional funding for the new tasks will not be executed until sometime in January.

8. Technical Consultant presentations and discussions related to regional flood planning

Mike Personett and Cindy Englehardt (both Halff Associates, Inc.) and Karen Ford (WaterPR), provided updates, briefings, and discussion on the following:

- a. Project Status
 - Revised Workflow Chart
 - Public and Stakeholder Engagement
 - Task 2A/B – Existing and Future Conditions
 - Task 4A – Flood Mitigation Needs
 - Task 4B – Identification and Evaluation of Potential Studies, Strategies and Projects
 - Task 4C – Agenda Item No 9 for PFFG approval to submit Technical Memorandum No. 1
- b. Look-ahead – January through July 2022 RFFG meetings

Planning Group members asked questions about and discussed specifics of the items with the technical consultant team.

9. Discussion and potential action to approve submittal of Technical Memorandum No. 1 to the Texas Water Development Board on or before January 7, 2022

The technical consultant staff presented the draft Technical Memorandum as posted publicly prior to the meeting.

After discussion, Kelly Payne moved to approve submittal of the draft technical memorandum no. 1 to the Texas Water Development Board subject to non-substantive changes and refinements, seconded by Ann Yakimovicz. A roll-call vote was taken, and all members present voted “yes”. The motion was approved 10-0, with members Ludwig, Brown, and Smith absent.

10. Discussion and potential action to establish a Technical Committee to assist with the development of recommendations regarding Flood Management Evaluations, Flood Management Strategies, and Flood Management Projects

- a. Discussion and potential action to establish committee and associated committee composition, terms, roles, and responsibilities

Mike Personett, Chair Spenrath and Lauren Graber described the purpose and structure of the technical committee. The first meeting was proposed for January 2022. The committee would consist of five members: a Chair, Vice-chair, Secretary, and two additional members. They recommended the terms of the members extend to the end of the present planning cycle or the end of a member’s term on the RFFG, whichever is earlier. The technical committee would make recommendations to full body, not themselves make final decisions.

Chair Phillip Spenrath moved to establish a technical committee under the above conditions and Kacey Paul seconded. A roll-call vote was taken, and all members present voted “yes”. The motion was approved 10-0, with members Ludwig, Brown, and Smith absent.

b. Nominations, discussion, and possible action to elect committee members

The RFPG took a recess due to a technical issue from 10:42am–10:50am. The RFPG reconvened and all 10 voting members who were present at the start of the meeting were present after the recess. Chair Spenrath discussed the duties of the committee members and asked for nominations. Kelly Payne nominated himself; Kacey Paul nominated Brandon Klenzendorf, Matt Hollon, and herself; and Chair Spenrath nominated Ann Yakimovicz. Chair Phillip Spenrath moved to approve, and Patrick Brzozowski seconded, the following candidates to serve as committee members: Brandon Klenzendorf, Kacey Paul, Kelly Payne, Matt Hollon, and Ann Yakimovicz. The motion was approved 10-0.

11. Public comments – limit 3 minutes per person

Chair Phillip Spenrath called for public comments.

Mieko Mahi commented that flood studies were needed across the entire planning area, flood gages needed to be repaired, communication should be understandable to all, and emergency management needs to include flood planning.

12. Consider date and agenda items for next meeting

Chair Phillip Spenrath opened discussion to consider the date and agenda items for the next meeting.

Chair Spenrath proposed that the next meeting agenda include officer election for full planning group; consultant updates; and consideration of a new liaison for the San Antonio River Regional Flood Planning Group.

After general discussion, Chair Phillip Spenrath concluded that the next meeting will be held on Monday, Jan 31 at 9:30 AM CST.

13. Adjourn

Brandon Klenzendorf made a motion to adjourn, seconded by Patrick Brzozowski. The motion passed 10-0 and the meeting was adjourned at 11:05 AM CST by Chair Phillip Spenrath.

*Approved by the Lower Colorado-Lavaca RFPG at a meeting held on **DATE**.*

Matt Hollon, SECRETARY

Phillip Spenrath, CHAIR

Region 10 Lower Colorado-Lavaca RFPG

- 4. Public comments – limit 3 minutes per person**
- 5. TWDB Update**
- 6. Update from Planning Group Sponsor**
 - a. Discussion and potential action regarding administrative expenses to be submitted to the Texas Water Development Board for reimbursement**

Administrative Costs from Sept 1, 2021 - Dec 31, 2021

Vendor	Amount
LCRA Labor & Fringe	\$4,281.30
TOTAL	\$4,281.30

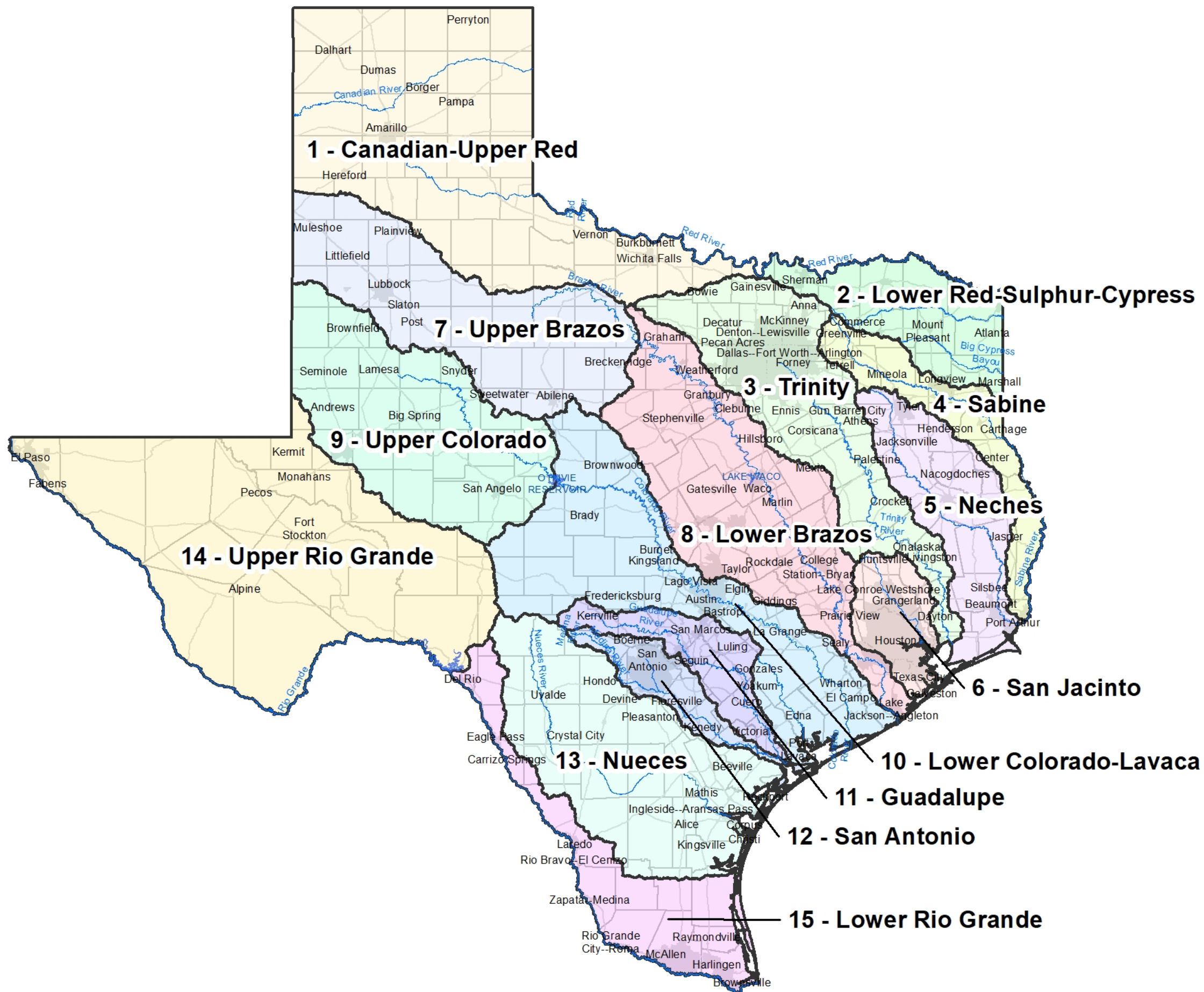
Approved Budget	Project Cost Previous Report	Project Cost This Report	Cumulative Project Cost	Balance
\$60,000.00	\$1,680.15	\$4,281.30	\$5,961.45	\$54,038.55

Region 10 Lower Colorado-Lavaca RFPG

7. Update from RFPG liaisons

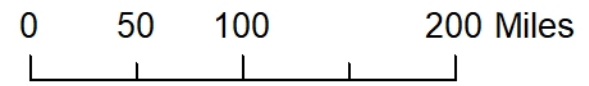
- a. Discuss and consider designating new non-voting member liaisons to coordinate with neighboring Flood Planning Regions**

Flood Planning Region Boundaries



Legend

- Major Roadways
- Major Rivers
- Major Reservoirs
- Flood Planning Region Boundaries
- Canadian-Upper Red
- Guadalupe
- Lower Brazos
- Lower Colorado-Lavaca
- Lower Red-Sulphur-Cypress
- Lower Rio Grande
- Neches
- Nueces
- Sabine
- San Antonio
- San Jacinto
- Trinity
- Upper Brazos
- Upper Colorado
- Upper Rio Grande
- County Boundaries
- Urbanized Areas



Region 10 Lower Colorado-Lavaca RFPG

- 8. Update from the Technical Committee**
- 9. Nominations, discussion, and possible action to elect RFPG Chair, Vice Chair, and Secretary**
- 10. Consider nominating and electing two members-at-large to serve on the Executive Committee**

Region 10 Lower Colorado-Lavaca RFPG

- 11. Technical Consultant presentations and discussions related to regional flood planning**
 - a. Project status**
 - b. Technical Memorandum No. 2**
 - i. Results of Tasks 2A/B – Existing and Future Flood Risk**
 - ii. Results of Tasks 4A – Flood Mitigation Needs**
 - c. Discuss Task 8 – Administrative, Regulatory, and Legislative issues**
 - d. Look-ahead**



LOWER COLORADO – LAVACA
REGIONAL FLOOD PLAN
A TEXAS INITIATIVE

REGIONAL FLOOD PLANNING GROUP MEETING | JANUARY 31, 2022



AGENDA

Project Status

- Review Workflow Chart
- Public and Stakeholder Engagement
- Task 4B – Potential FMEs, FMSs and FMPs

Task 4C – Review draft Technical Memorandum No. 2

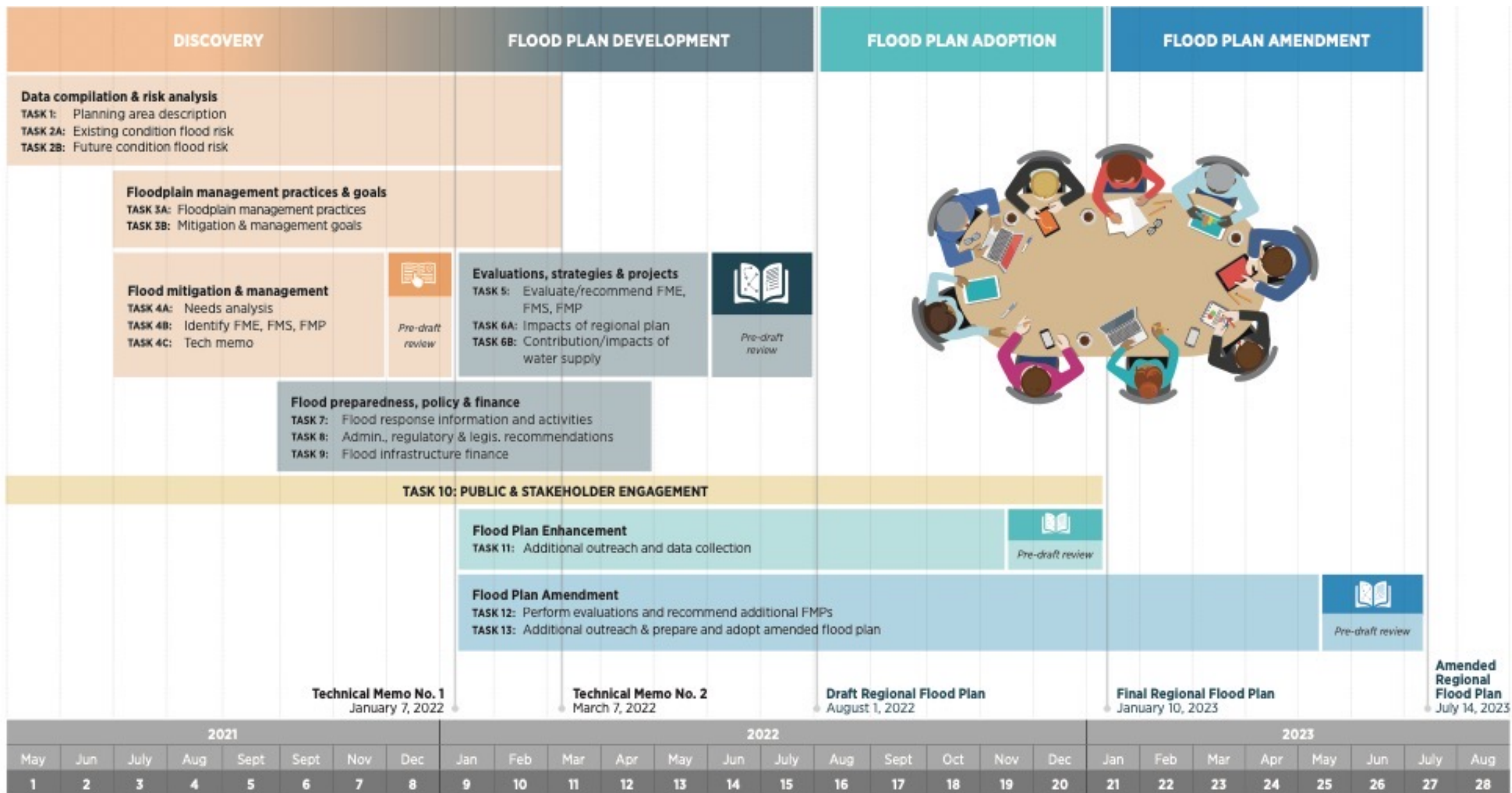
- Task 2A/B – Existing and Future Condition Flood Risk
- Task 4A – Flood Mitigation Needs

Task 8 – Policy Recommendations

Look-ahead Calendar



Project Status



PUBLIC OUTREACH AND ENGAGEMENT

Karen Ford – WaterPR

Ongoing Strategies to Reach Audiences

Email Blasts to Community & Public Stakeholders (487)

- January Meetings: RFIG & Technical Committee
- Technical Memorandum #1
- Schedule and progress update

Website

- Add Submitted Tech Memo #1
- Twelve documents online for public review
- 61 subscribed to notifications

Media

- Press Release: January 27, 2022
- Social media posts: Tech Memo #1, meetings



Curious about Flood Planning?

Read Tech Memo #1

Available now at:
LowerColoradoLavacaFlood.org

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

NEXT MEETING | Lower Colorado-Lavaca
Monday
Jan. 31, 2022
9:30am to Noon

REGIONAL FLOOD PLANNING GROUP
REGION 10

HYBRID MEETING | Agenda & Link at:
LowerColoradoLavacaFlood.org

Technical Committee

First Meeting | Lower Colorado-Lavaca
Thursday
Jan. 27, 2022
9:00am to 12:00pm

REGIONAL FLOOD PLANNING GROUP
REGION 10

IN-PERSON MEETING | Location and agenda at:
LowerColoradoLavacaFlood.org

TASK 4B – POTENTIAL FMEs, FMSs AND FMPs

Overview

290

FLOOD MANAGEMENT STRATEGIES (FMSs)

- Infrastructure Project Planning
- Property/Easement Acquisition
- Elevation of Structures
- Education and Outreach
- Flood Warning and Measurement
- Regulatory and Guidance

293

INFEASIBLE

Do not meet minimum screening requirements

149

FLOOD MANAGEMENT EVALUATIONS (FMEs)

Studies

Risk Reduction Analysis

Flood Preparedness Study

Modeling and Mapping / Risk Identification

Alternatives Analysis / Feasibility Assessment

Preliminary Engineering (30% design)

105

FLOOD MITIGATION PROJECTS (FMPs)

Structural Infrastructure

Non-Structural

26

Advanced Analysis / Design / Construction (30 - 100% design)

79

Project Implementation

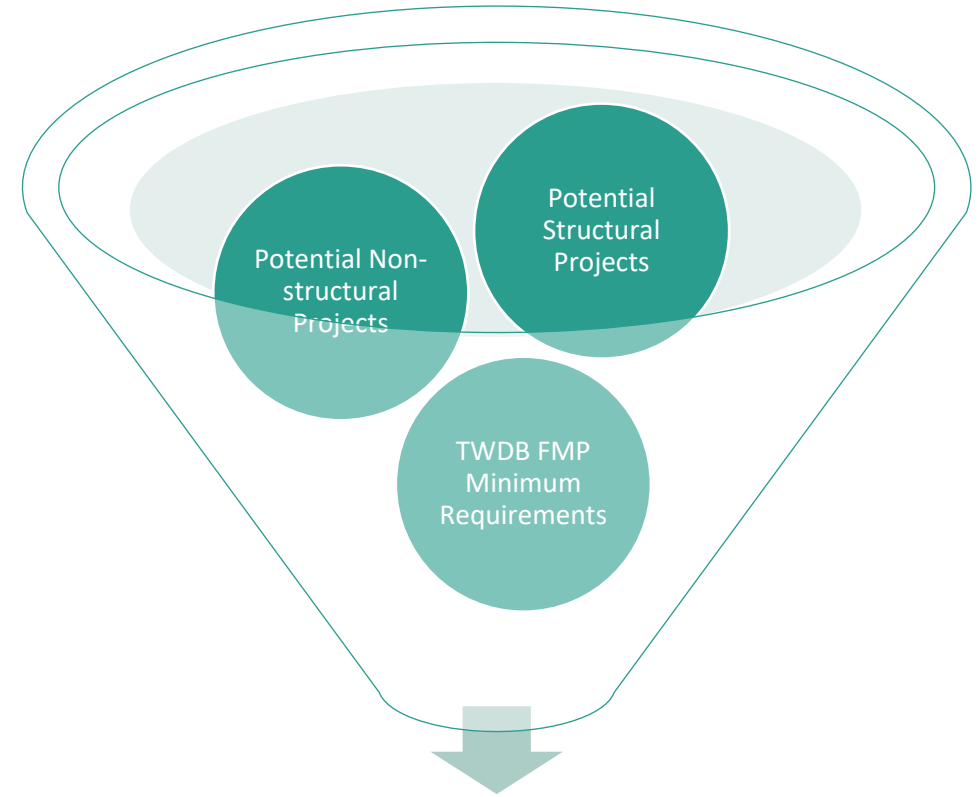
- Property/Easement Acquisition
- Elevation of Structures
- Floodproofing
- Flood Readiness and Resilience
- Flood Warning, Gauges
- Regulatory Requirements

TASK 4B – POTENTIAL FMEs, FMSs AND FMPs

Status and Outlook

Minimum Screening Requirements

- Contributing drainage area > 1 square mile, *except*:
 - Critical facilities or transportation routes
 - Other reasons determined by RFPG (level of risk, size...)
- Based on H&H modeling that meets TWDB guidelines
 - NOAA Atlas 14 rainfall data
- Meets No Negative Impact requirement
- Mitigates 1% annual chance event (100-year) flood
- Meets emergency need
- Flood risk reduction benefits quantified
- Adequate estimated capital cost data



FMPs for Task 5 Analysis

- Cost/Benefit Ratios
- Other Impacts/Benefits
- Residual Risk
- Implementation Issues

TASK 4B – POTENTIAL FMEs, FMSs AND FMPs


Next Steps – Additional Screening

Screening Objectives

- Refine preliminary potentially feasible STUDIES, STRATEGIES and PROJECTS
 - Update list of activities determined to be infeasible
- Identify process and recommend STUDIES to be advanced under Task 12
- Complete additional screening by March and initiate Task 5

Sponsor Verification Approach

- Entity's interest in sponsorship of potential FMPs/FMSs/FMPs
- Entity's willingness and ability to fund/finance implementation (full or partial)
- Accuracy of information included in preliminary lists
- Whether FMEs/FMSs/FMPs identified as potentially feasible are viable, have already been implemented, are not a priority, etc.
- Whether there are FMEs/FMSs/FMPs to add and evaluate



Task 4C

Technical Memorandum No. 2

TASK 4C – TECHNICAL MEMORANDUM #2

Content and Schedule

Status Overview Text

- Introductory Text for Technical Memorandum No. 2 Deliverables
 - Task 2A/B – Existing and Future Condition Flood Risk
 - Task 4A – Flood Mitigation Needs

Task 4C Attachments (Items 1c-e)

- Tables, Maps and Geospatial Database
 - Existing and Future Condition Flood Risk
 - Flood Mapping Gaps
 - Hydrologic and Hydraulic Model Availability

DRAFT MEMO #2
January 2022

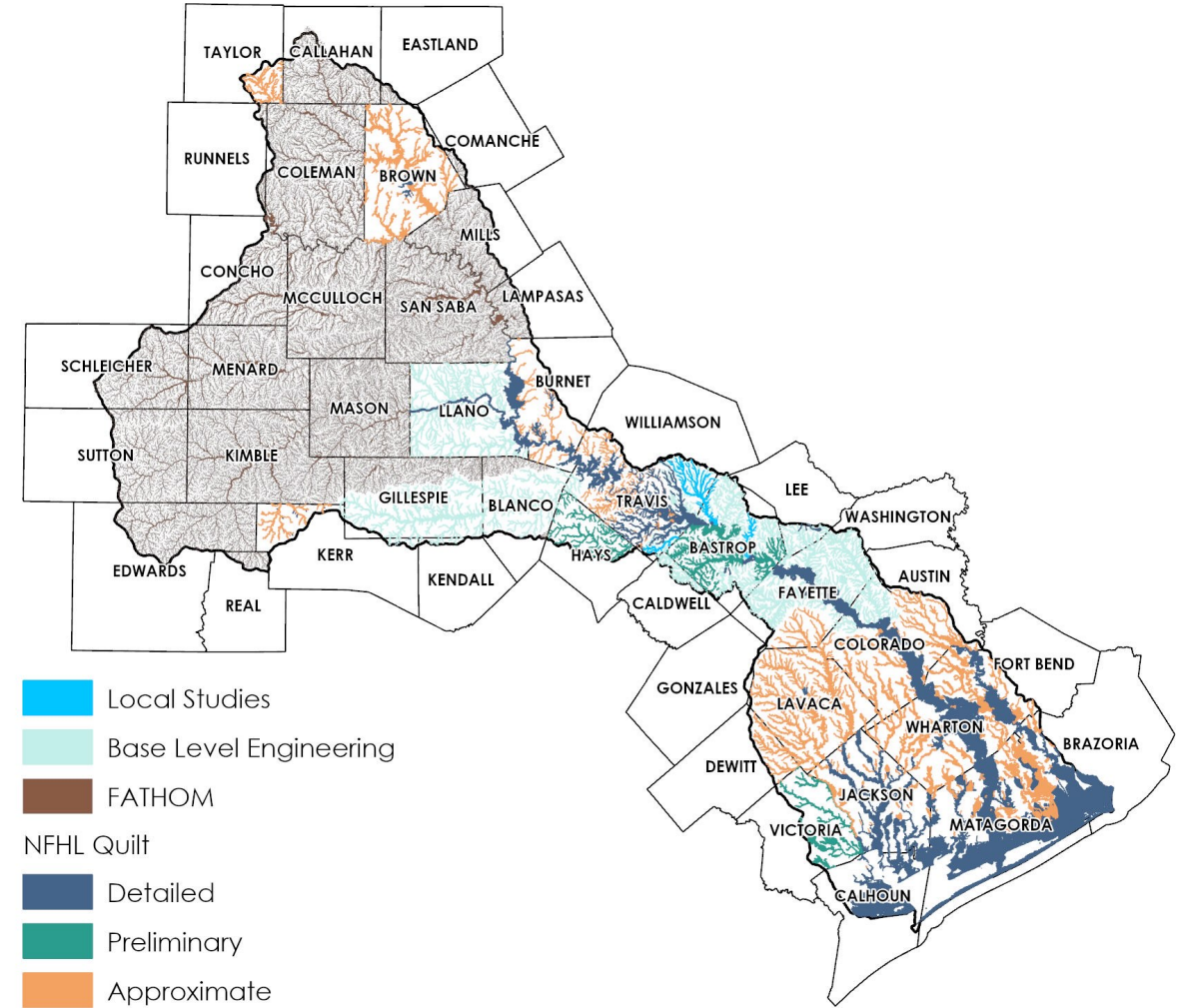
DUE TO TWDB
March 7, 2022

TASK 2A/B – EXISTING AND FUTURE CONDITION FLOOD RISK

Preliminary Floodplain Quilt

Existing Condition Flood Risk

1. Local Studies
2. National Flood Hazard Layer
 - Pending & Preliminary Data
 - Effective Data for Detailed Study Areas (Zone AE, AO, AH, and VE)
3. Base Level Engineering
4. National Flood Hazard Layer
 - Effective Data for Approximate Study Areas (Zone A and V)
5. Fathom
6. ~~First American Flood Data Services~~

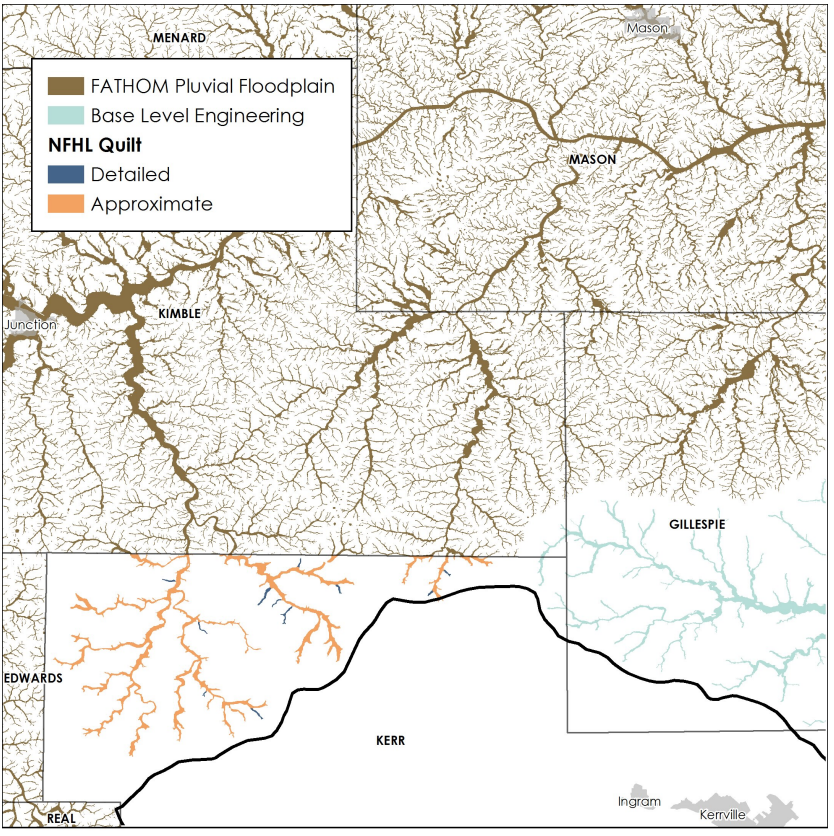
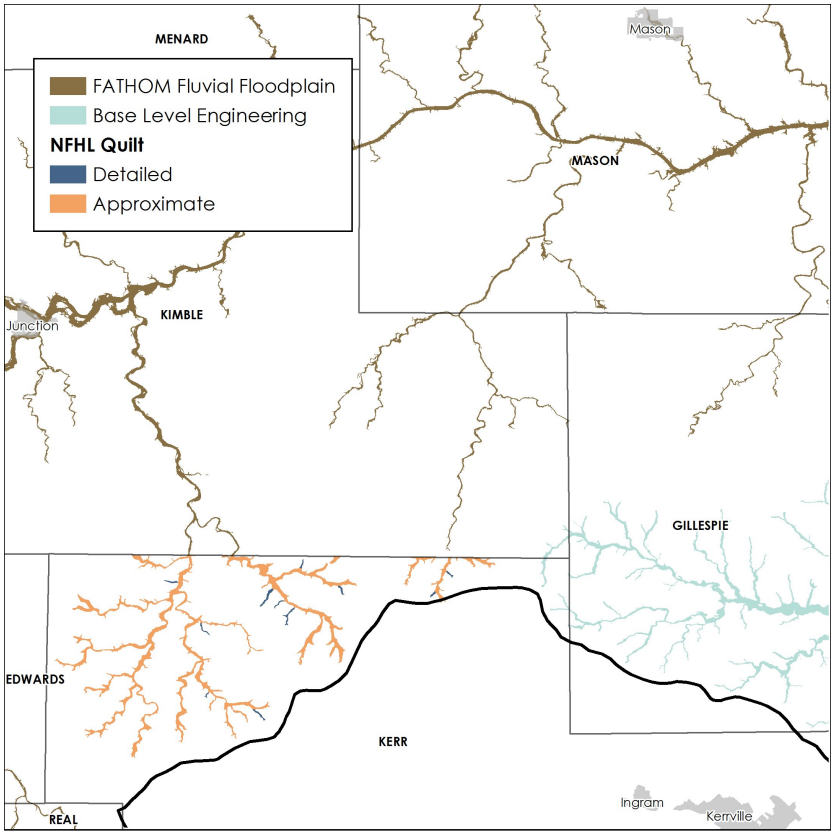


TASK 2A – EXISTING CONDITION FLOOD RISK

Preliminary Floodplain Quilt

Localized Flooding – Fathom Pluvial Floodplains

- Better defines where water may gather once rain hits the ground

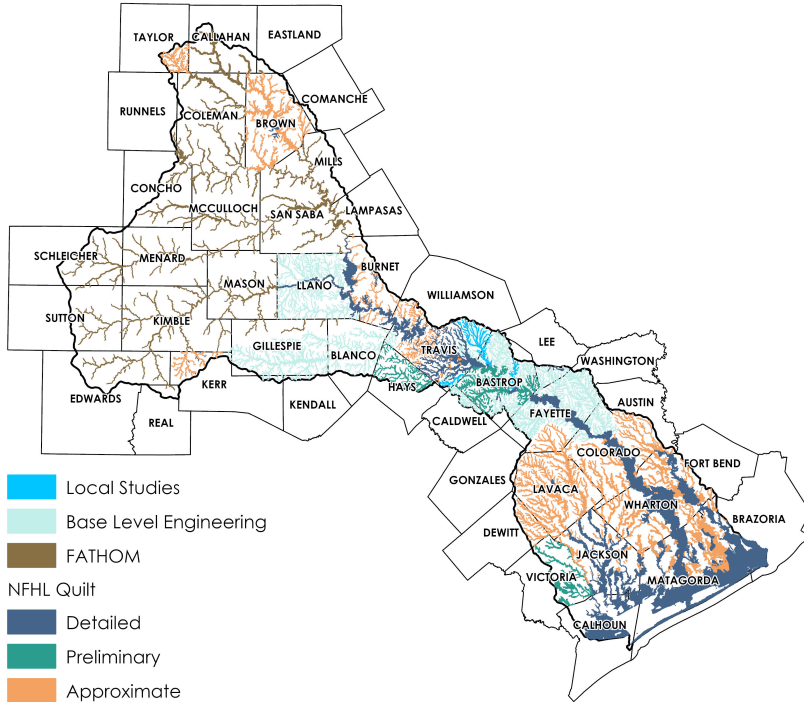


TASK 2A – EXISTING CONDITION FLOOD RISK

Preliminary Floodplain Quilt

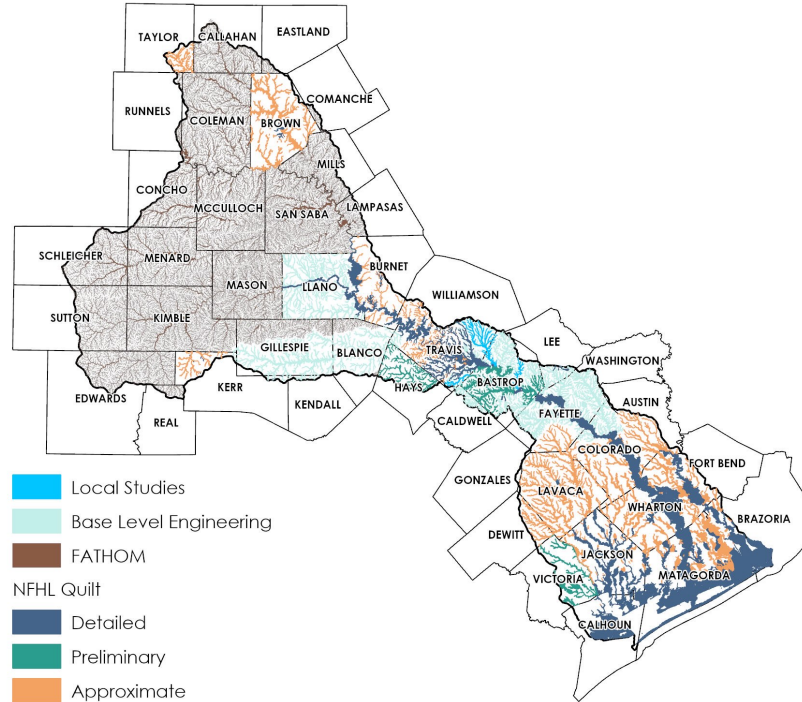
Option 1

- No Localized Floodplains



Option 2

- Localized Floodplains where no other flood risk data



Option 3

- Regionwide Fathom



TASK 2A – EXISTING CONDITION FLOOD RISK

Preliminary 100-year Exposure

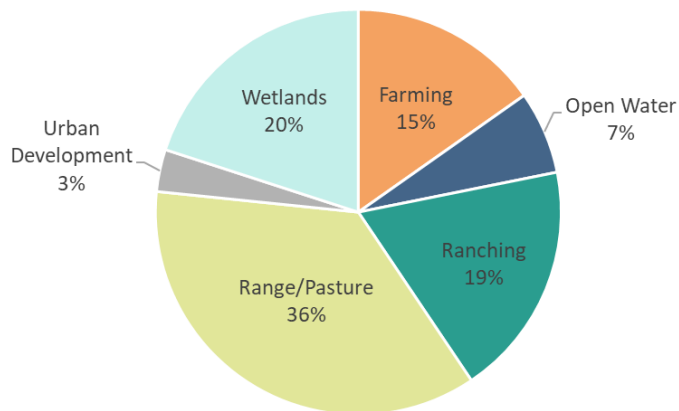
Option 1

- No Localized Floodplains

 64,000 buildings

 70 critical facilities

 106,000 people




RFPG-10 Meeting: January 31, 2022

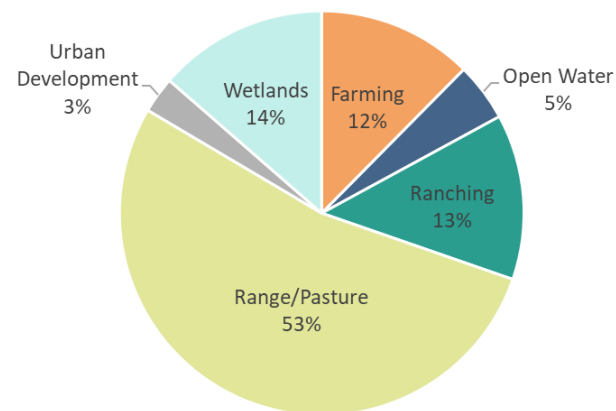
Option 2

- Localized Floodplains where no other flood risk data

 69,000 buildings

 78 critical facilities

 110,000 people




HALFF Presentation

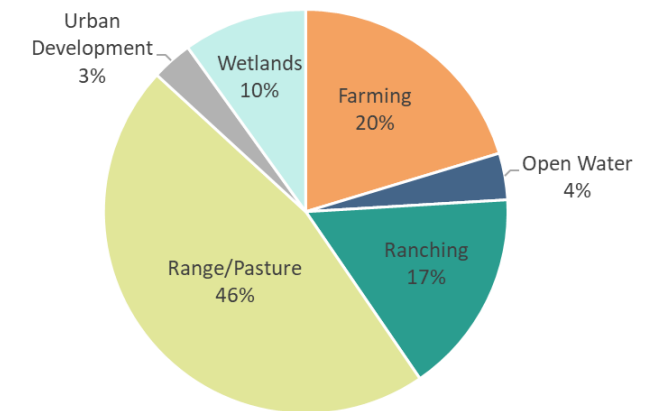
Option 3

- Regionwide Fathom

 108,000 buildings

 136 critical facilities

 297,000 people



TASK 2B –FUTURE CONDITION FLOOD RISK

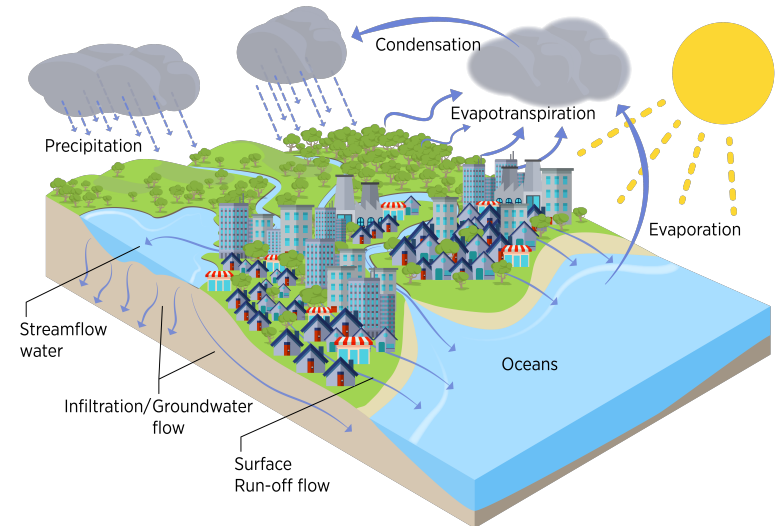
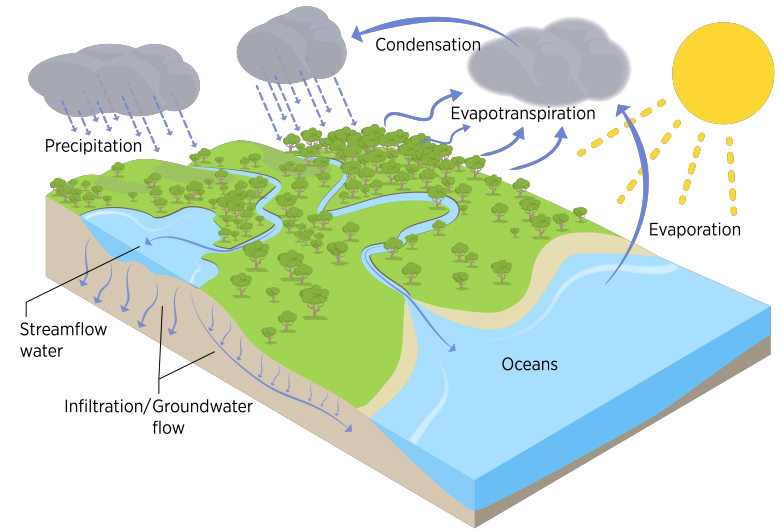
Scope of Work

Potential Future Condition Flood Risk

“no action” scenario for ~30 years

- Continued population growth
- Continued development increase
- Current floodplain management regulations/policy
- Anticipated climate change
- Anticipated land changes
- Completion of flood mitigation projects by 2050

Non-Regulatory Mapping

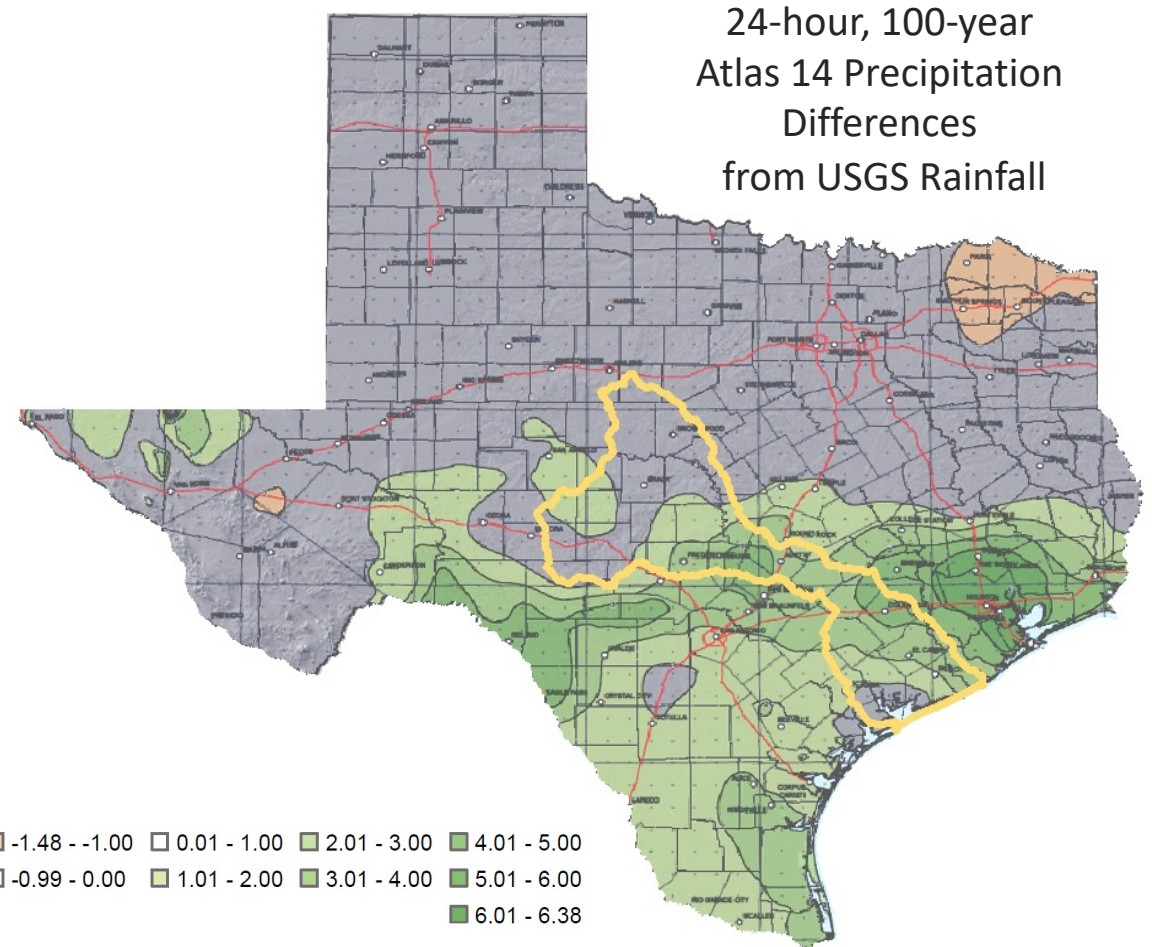


TASK 2B – FUTURE CONDITION FLOOD RISK

Scope of Work

Assumptions & Estimation Options (per TWDB guidance)

1. Increase based on population/development growth
 - Freeboard: water surface elevation increase
 - Floodplain buffer: floodplain width increase
2. Utilize existing condition 0.2% annual chance event (500-year) floodplain
3. Combination of above assumptions



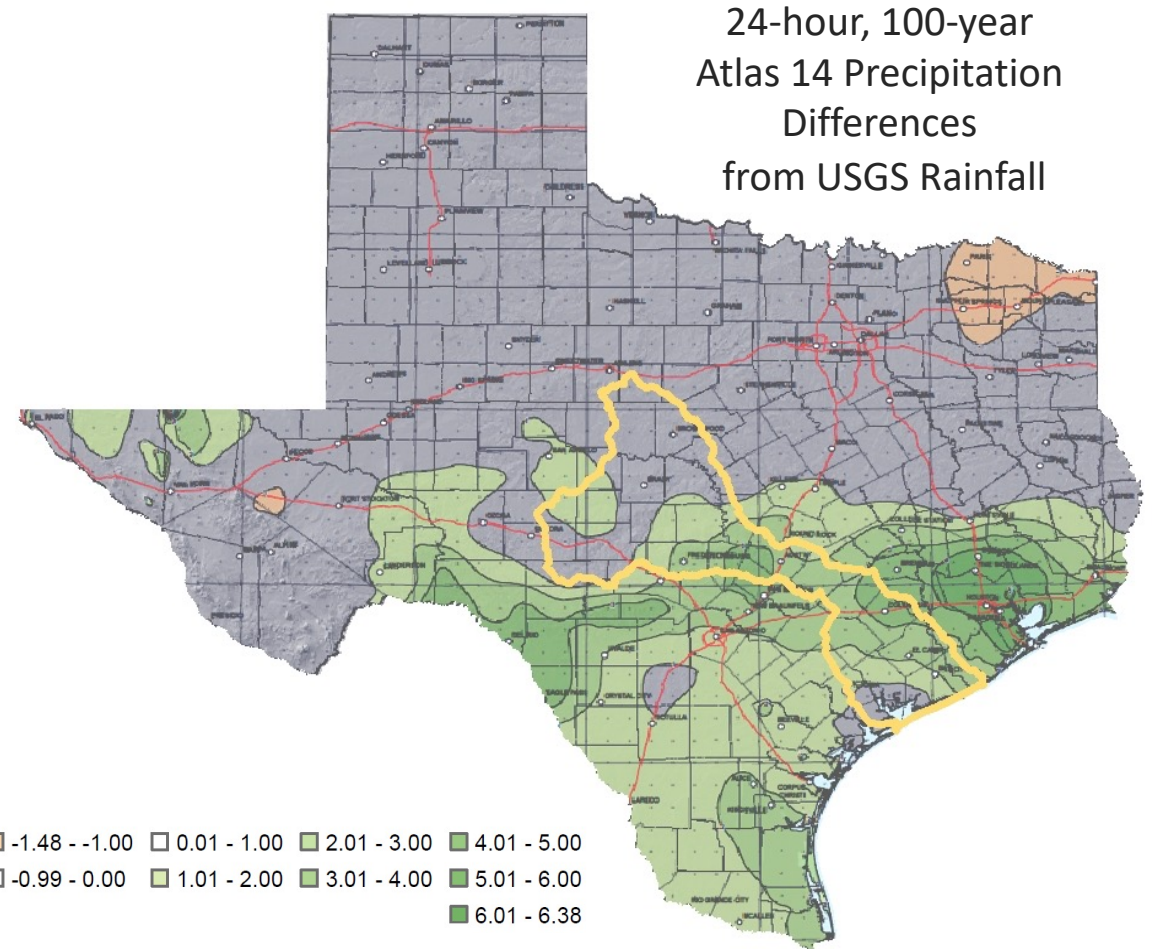
Source: NOAA Atlas 14

TASK 2B – FUTURE CONDITION FLOOD RISK

Scope of Work

Assumptions & Estimation Options (per TWDB guidance)

1. Increase based on population/development growth
 - Freeboard: water surface elevation increase
 - Floodplain buffer: floodplain width increase
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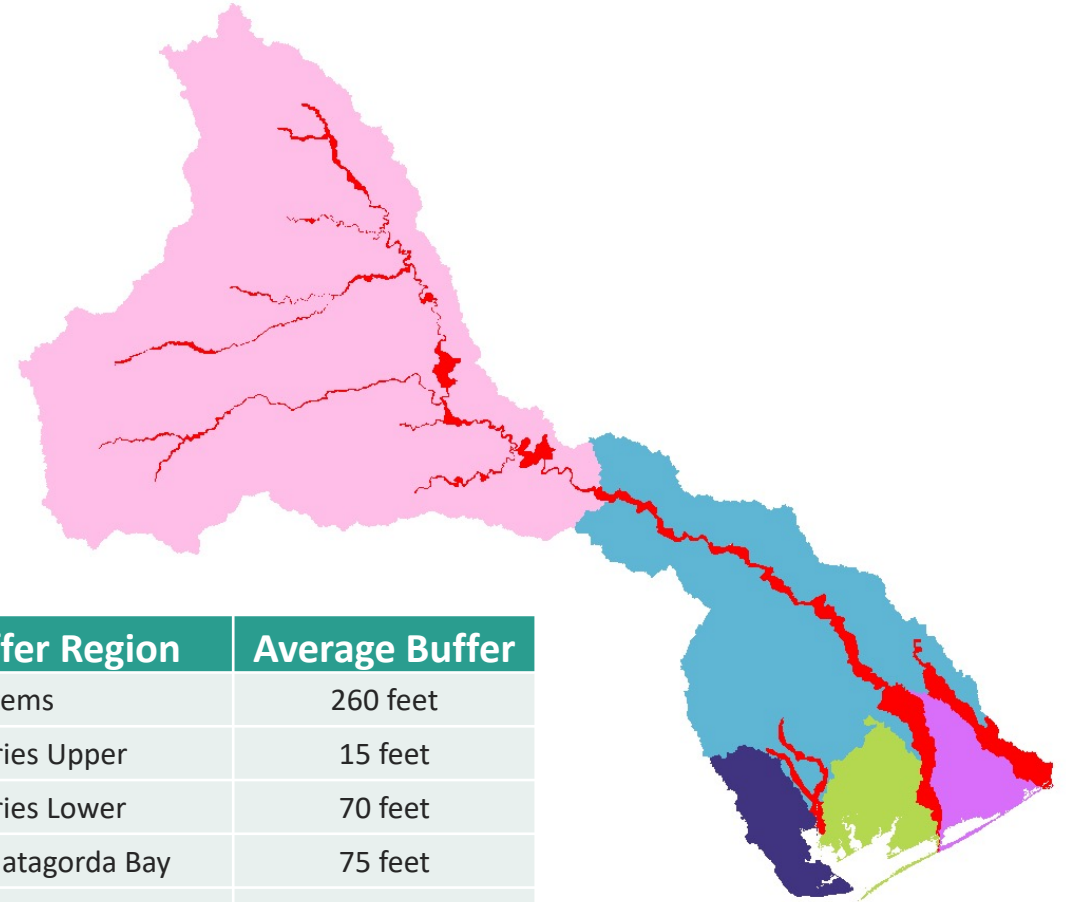
Source: NOAA Atlas 14

TASK 2B –FUTURE CONDITION FLOOD RISK

Preliminary Floodplain Quilt

Potential Future Condition Flood Risk

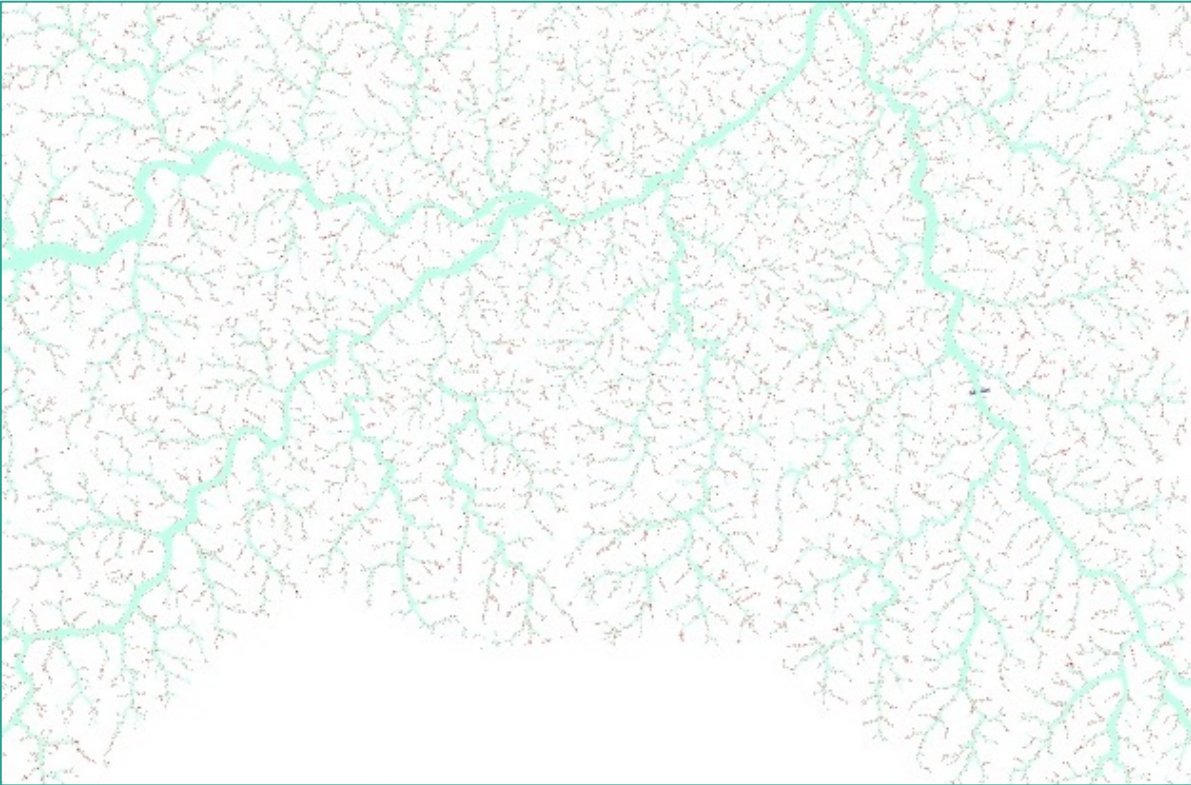
- Utilize existing condition 0.2% annual chance event (500-year) floodplain
 - Future 100-year = Existing 500-year
- Floodplain buffer: floodplain width increase
 - Future 500-year = Future 100-year plus delta derived from computation between the existing 100-year and 500-year



Buffer Region	Average Buffer
Main Stems	260 feet
Tributaries Upper	15 feet
Tributaries Lower	70 feet
West Matagorda Bay	75 feet
Central Matagorda Bay	315 feet
East Matagorda Bay	405 feet

TASK 2B –FUTURE CONDITION FLOOD RISK

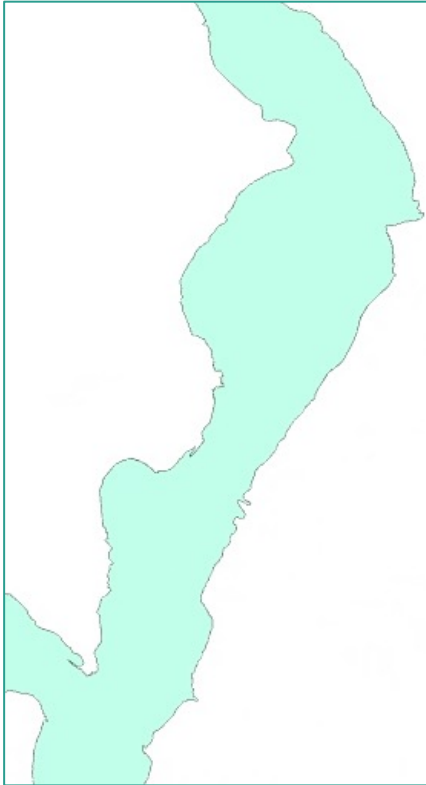
Preliminary Floodplain Quilt



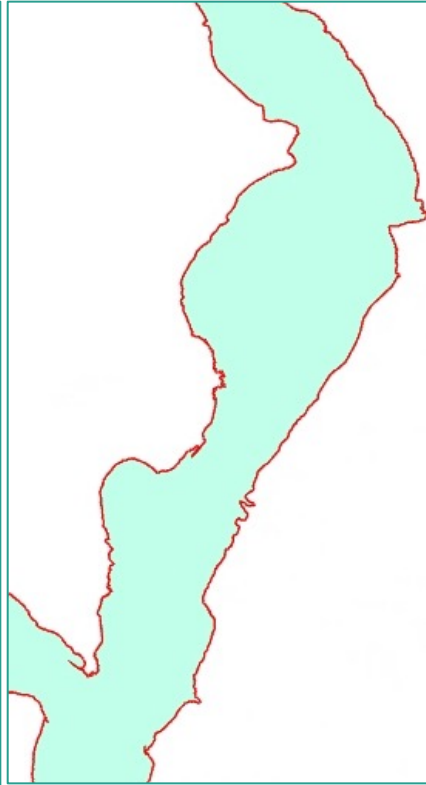
Landscape Scale



Existing



Future 1%



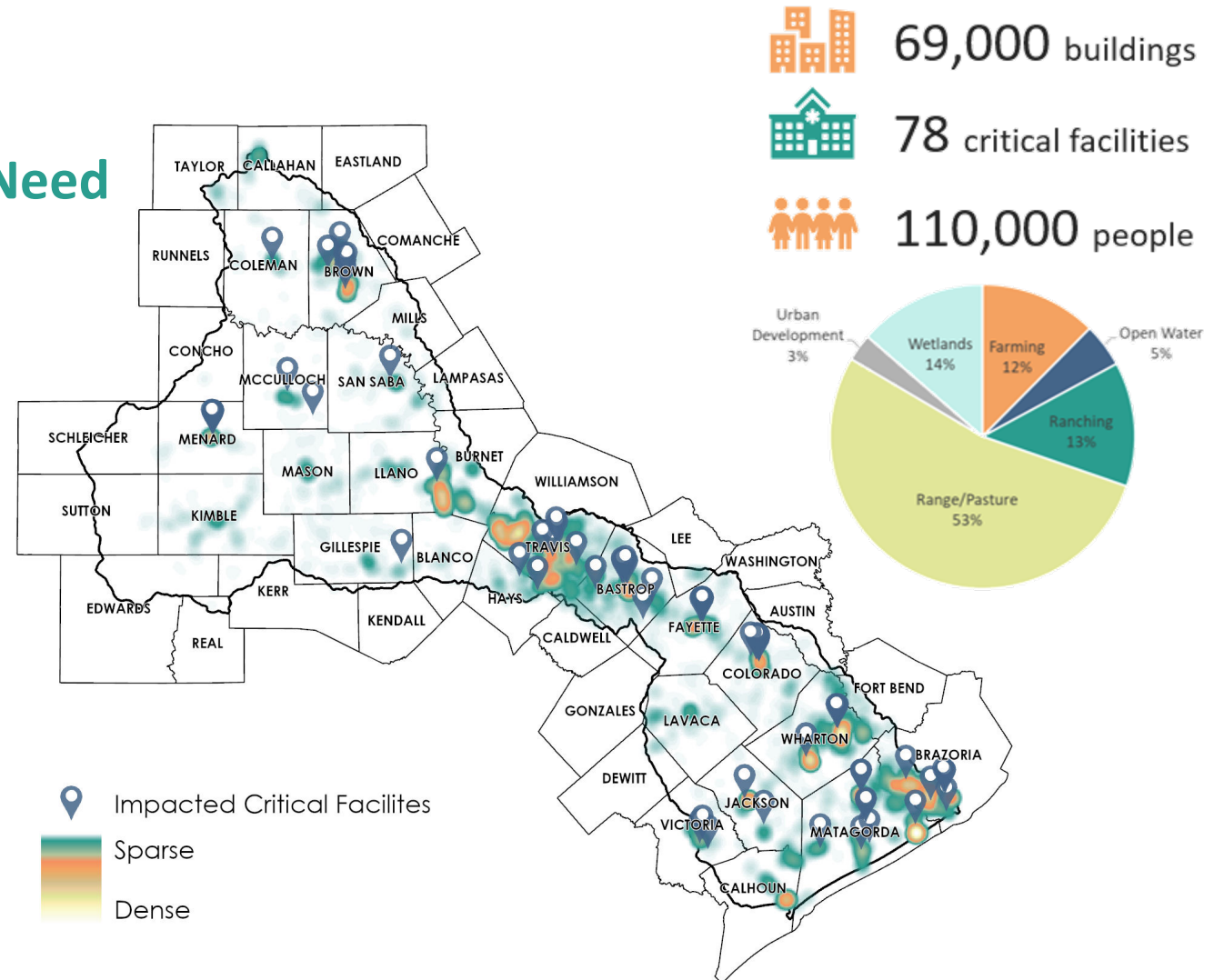
Future 0.2%

TASK 4A – FLOOD MITIGATION NEEDS ANALYSIS

Status and Outlook

Preliminary Greatest Risk and Need

- Exposure – What is at Risk?
 - Infrastructure Hotspots
 - Land Cover Types
- Vulnerability – Who is at Risk?
 - Populations
- What is the Impact?
 - Critical Infrastructure
 - Resilience Factors

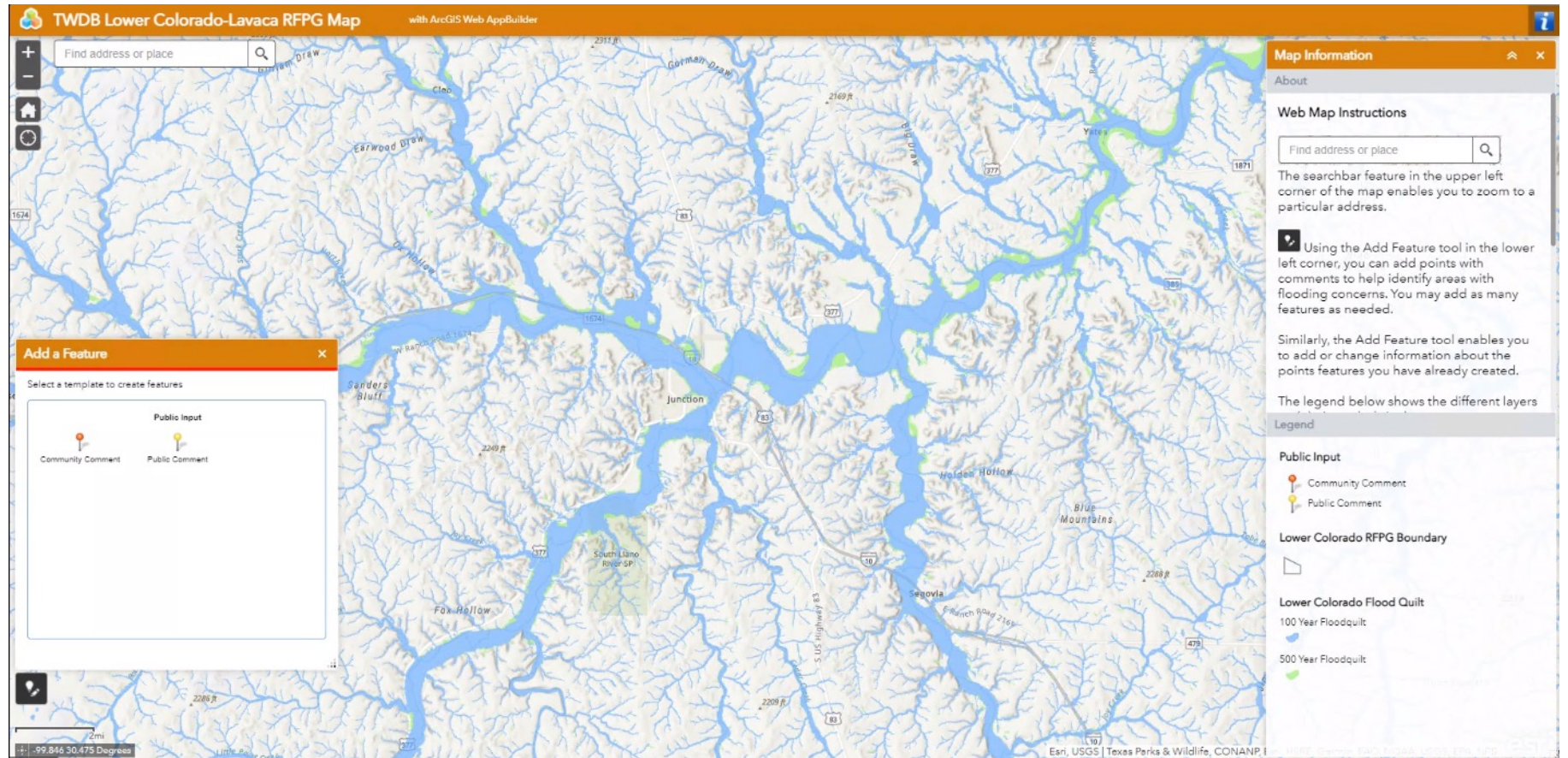


TASK 2A – EXISTING CONDITION FLOOD RISK

Preliminary Floodplain Quilt

Public Comment Web Map

- Go to the website
- Drag pin to map
- Provide contact information
- Leave comment





Task 8

Policy Recommendations

TASK 8 – POLICY RECOMMENDATIONS

Policy Issues and Topics:

Administrative

- Regional flood planning process improvements (e.g., streamline data collection requirements, clarify distinction between flood risk and drainage problems)
- Develop model ordinances for general law cities (e.g., building codes, Low Impact Design/Development)
- Provide support for ongoing education/training re: floodplain management

Regulatory

- City and county regulatory authority re: regulation of land use and development in floodplains

Legislative

- Recurring biennial appropriations to Flood Infrastructure Fund for Study, Strategy and Project implementation
- State incentives for establishment of municipal drainage utilities
- Legal impediments to use of public funds to improve private properties for flood risk reduction (e.g., elevation of structures in floodplains)

Send ideas/suggestions to Mike Personett at mpersonett@halff.com

TASK 8 – POLICY RECOMMENDATIONS

Examples from Trinity Flood Planning Region

Administrative

- Assist smaller jurisdictions in preparing funding applications or make the application process easier
- Funding for projects that benefit agricultural activities should not be scored or awarded based on a traditional benefit-cost ratio
- Use consistent HUC reporting requirements throughout the TWDB-required tables
- Use FEMA Social Vulnerability Index in lieu of the CDC SVI in future planning cycles
- Establish common criteria across the region or subregions (common floodplain management standards)
- Provide funding and/or assistance to develop floodplain maps
- Develop a statewide database and tracking system to document flood-related fatalities that is publicly available

Regulatory

- State adoption of 2015 or 2018 versions of International Building Code and International Residential Code
- TxDOT design criteria should require all roadways to be elevated above the 1% ACE water surface elevation
- Establish a levee safety program similar to the TCEQ dam safety program

Legislative

- Add legislative ability to allow counties the opportunity to establish drainage utilities and assess drainage fees
- Remove barriers that prevent jurisdictions from working together to provide regional flood mitigation solutions
- Develop and allocate State funding to assist privately-owned dam owners with the costs associated with repair and maintenance of dams



Look-Ahead

2022 RFPG MEETINGS – THROUGH JULY 2022

February (2/17/22)

- Approve draft Task 2A/B existing and future condition flood risk
- Approve draft Task 4A locations of greatest flood risk and flood mitigation needs
- Approve submittal of Technical Memorandum No. 2 (due to TWDB March 7, 2022)

March

- No meeting

April (4/7/22)

- Present and discuss final Task 4B lists of potentially feasible STUDIES, STRATEGIES and PROJECTS
- Present and discuss Task 12 recommendation of STUDIES to receive additional analysis
- Present and discuss Task 5 preliminary recommendations of STUDIES, STRATEGIES and PROJECTS
- Present and discuss preliminary results and/or recommendations re: Task 3B goals performance measures, Task 7 flood preparedness, Task 8 flood management and mitigation policies, and Task 9 flood infrastructure finance

2022 RFPG MEETINGS – THROUGH JULY 2022

May (5/2/22)

- Present and discuss Task 5 preliminary recommendations of potential STUDIES, STRATEGIES and PROJECTS
- Present and discuss draft results and/or recommendations re: Task 3B goals, Task 7 flood response information and activities, Task 8 flood management and mitigation policies, and Task 9 flood infrastructure finance
- Present and discuss preliminary results of Task 6A impacts of Regional Flood Plan and Task 6B contribution to and impacts on water supply development

June (6/9/22)

- Approve recommendations - Task 5, Task 8 and Task 9
- Present and review preliminary draft initial Regional Flood Plan

July (7/7/22 and 7/25/22)

- 7/7/22 - Present and review draft initial Regional Flood Plan
- 7/25/22
 - Adopt and approve submittal of initial draft Regional Flood Plan (due to TWDB August 1, 2022)
 - Discuss next steps of Regional Flood Plan adoption and Regional Flood Plan amendment



Wrap Up

Region 10 Lower Colorado-Lavaca RFPG

12. Public comments– limit 3 minutes per person

13. Consider date and agenda items for next meeting

14. Adjourn